### 國立政治大學語言學研究所碩士論文

National Chengchi University Graduate Institute of Linguistics Master Thesis

指導教授: 戴智偉博士 Advisor: Dr. Rik De Busser

北金峰鄉排灣語形態句法—以指示語為研究核心 Aspects of the morphosyntax of North Jinfeng Paiwan - with a focus on deixis

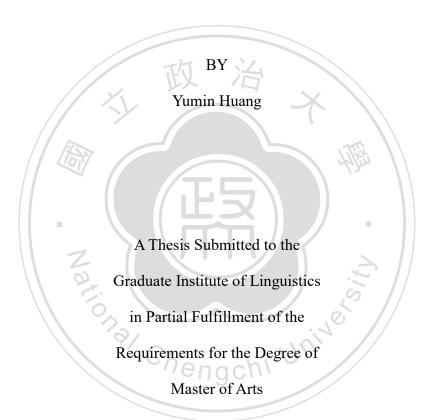
Zon Chengchi Univer

研究生:黃鈺閔 撰 Student: Yumin Huang

中華民國 107 年 8 月 August, 2018



Aspects of the morphosyntax of North Jinfeng Paiwan - with a focus on deixis







Copyright © 2018

Yumin Huang

All Rights Reserved



#### Acknowledgements

My deepest thanks go to my supervisor, Dr. Rik De Busser (戴智偉), for his guidance throughout my research and for his helpful comments on the first draft of this work. My enthusiasm on Austronesian languages came from his courses 'the Austronesian languages' and 'Field Research' and his MOST projects. He kindly assisted me with the development of my field study of Paiwan. He is not just my supervisor but a mentor. When I encountered difficulties during my fieldtrips, he encouraged me a lot, built up my confidence and gave me a lot of useful advices.

Through Dr. De Busser's arrangement, in the early stages of my fieldtrips, I stayed in the house of his relatives, Tian-lai Wu (吳天來) and Wumi Tian (田秋妹), in kaʔaluan (嘉蘭村). They offered me a place to stay and took care of me a lot, making me soon accommodate myself to the surroundings when I first stepped into the territory of Paiwan. I am very grateful for them. I want to thank all members of Wu's family and some friends and neighbors of Wu, who brought me a great memory during the semancavilj 'harvest festival' in August 2016. I especially want to thank Shih-yuan Yeh-li (葉李世源) and Uden, who showed me around the villages in Jinfeng Township and shared a lot of knowledge about hunting culture with me. I am extremely grateful to Pastor Chung-ming Wang (王忠明) and his wife. They took care of me a lot, often cooked for me, and always treated me like a member of their family.

Words are not enough to express my gratitude to Pastor Mazeljzelj Curimudju (黃進成), my first and the main informant for this thesis, who lived in *sinapayan* (正興村). He spent his precious time providing me a large amount of language data and patiently answered me lots of boring questions in many evenings after long and tiring work. Other than the knowledge of language, I also learned a lot from him. He took pleasure in sharing his extensive knowledge of Paiwan naming, traditional rituals, culture and history with me. He also encouraged me a lot on my research.

Though we have never met, I want to thank pastor of Presbyterian church of *sapulju* (新興村), Muni Madilin (瑪迪林·慕妮), for introducing me three informants: Ljumiyan Tjakulavu (溫待青), Sabu Daljawlep (左玉芳) and Selep Taveljengan (菈露依). I am grateful for them, who spent several afternoons answering my questions in *sapulju*. Besides providing language data, they also pleasurably shared information about their living domains with me. I especially want to thank Selep again. Whenever I want to give an interview with Ljumiyan and Sabu, she always helped me contact them, arrange an interview location, and made a special trip to *sapulju* from her village, *djumulj* (賓茂村), which is about 15 kilometers away from *sapulju*, just for serving as the communication assistant in the interview. I also thank her for spending a long afternoon sharing her knowledge of immigration history of tribes with me in *djumulj*.

I am grateful for the staff in Jinfeng Township Office. Through contact with them, I met another informant, Acudus Talealan (曾孝) living in *kaʔaluan*. I am very grateful to him, for taking his time on answering my questions in several mornings and afternoons. He also shared interesting things about his life with me.

My special thanks go to Bi-xin Lin (林碧鑫), who spent an evening sharing me with his knowledge of Paiwan history and culture in ka?aluan.

I would like to thank the staff of Taimali Research Center of Taiwan Forestry Research Institute (林業試驗所太麻里研究中心), who helped me find the accommodation place in the urban area of Taimali Township and tolerated me for about two weeks.

I would like to show my sincere gratitude to all my committee members, who took their time in reading this long thesis. They are Dr. Stacy Fang-ching Teng (鄧芳青), Dr. Amy Peijung Lee (李佩容) and Dr. Claire Hsun-huei Chang (張郇慧). They pointed out many problems and gave me lots of nice suggestions. I am thankful to Dr. Teng for providing me financial support. Furthermore, I especially want to thank Dr. Elizabeth Zeitoun (齊莉莎). She voluntarily attended my oral defense and gave me elaborate suggestions on the modification of the thesis.

I would like to thank Dr. One-soon Her (何萬順). During the time in participating in Dr. Her's projects, he shared a lot of research experience with me. It was a great time to work for him. He has a great sense of humor and always made academic research be an interesting thing. I am also grateful for Dr. Hsiu-chuan Liao (廖秀娟). She offered me many opportunities, making me more involved in the academic circle of research of Austronesian languages.

I want to thank Dr. Chin-lung Lin (林慶隆), Chung-yi Chiu (邱重毅) and all other colleagues in Research Center for Translation, Compilation and Language Education in National Academy for Educational Research. They gave me a lot of suggestions and advices on my academic career.

I want to thank all my friends, who have made my life cheerful and colorful. I especially want to thank all my best friends I have met in the period of my undergraduate study in National Tsing Hua University. Every time I get together with them, my batteries get recharged. My sincerest thanks go to my girlfriend, Chen-yao Chao (趙鎮瑤), for all her accompany during the hard times of my writing. Last but not least, I want to thank my parents and my younger brother. They have always supported me, no matter how roundabout the route I chose to go. They are always my spiritual pillars in my life.

Finally, I want to thank Jinfeng Township, a beautiful land full of cultural atmosphere, that gave me nutrition and made this work possible.

# Table of contents

Acknowledgements	iv
List of tables	viii
List of figures, maps and pictures	ix
Lists of conventions	X
Chinese abstract	xiii
English abstract	xiv
Chapter 1: Introduction	1
1.1 Motivations	1
1.2 Objective	2
1.3 Organization of this thesis	3
1.2 Objective	3
1.5 Literature review	7
1.5.1 Dialectology	7
1.5.2 Descriptive grammars	10
1.5.3 Morphosyntactic typology	
1.5.4 Deixis	13
1.6 Methodology	14
1.6.1 Field locations	14
1.6.2 Informants	18
1.6.3 Data collection and analysis	19
1.6.2 Informants  1.6.3 Data collection and analysis	27
2.1 Phonology	27
2.1.1 Phonemes	27
2.1.2 Syllable structure	
2.1.3 Stress	
2.2 Morphology	36
2.2.1 Roots and stems	
2.2.2 Affixes and clitics	38
2.2.3 Reduplication	
2.3 Lexical categories	
2.3.1 Categories of roots and stems	
2.3.2 Nominal affixes	44
2.3.3 Verbal derivational affixes	
2.3.4 Nouns and verbs	54

2.3.5 Other word classes	57
2.4 Argument structure	60
2.4.1 Predicates and arguments	60
2.4.2 Case System	63
2.4.3 Voice System	65
2.4.4 Valence-adjusting mechanism	66
Chapter 3: Noun and Verb Phrases	69
3.1 Constituent order	69
3.2 Nouns	73
3.2.1 Common nouns	74
3.2.2 Personal names	
3.2.3 Kinship terms	
3.2.4 Place names	78
3.2.5 Spatial nouns	79
3.2.6 Temporal nouns	79
3.3 Numerals and sortal affixes	80
3.4 Verbs	
3.4.1 Dymamic vs. stative verbs	84
3.4.2 Adjectival verbs	86
3.4.3 Auxiliary verbs	87
3.5 Mood, aspect and voice	
Chapter 4: Deixis	99
4.1 Personal pronouns	99
4.2 Demonstratives	106
4.3 Spatial and temporal constructions	110
4.3.1 Stative location prefix <i>i</i>	110
4.3.2 Morphosyntax of spatial and temporal nouns	112
4.3.3 Specific location prefix <i>tja</i> -	118
4.3.4 Temporal adverbs	119
Chapter 5: Conclusion	125
References	127
Appendix: Texts of Narratives	135
11	

# List of tables

Table 1.1 - Dialect basis of previous works on grammatical description of Paiwan	11
Table 1.2 - List of informants	18
Table 1.3 - A sample of collecting word lists by derivation and back-formation: Caan	21
Table 2.1 - Consonant inventory of North Jinfeng Paiwan	28
Table 2.2 - (Near) minimal pairs of consonant phonemes	29
Table 2.3 - Vowel inventory of North Jinfeng Paiwan	32
Table 2.4 - Nominal affixes	44
Table 2.5 - Internal structure of nouns	55
Table 2.6 - Internal structure of verbs	56
Table 2.7 - Basic numerals	57
Table 2.8 - Case markers	63
Table 2.9 - Voice affixes in indicative mood	66
Table 3.1 - Classification of nouns according to morphosyntactic features	73
Table 3.2 - Kinship terms	
Table 3.3 - Numerals with sortal affixes	81
Table 3.4 - Ordinal and multiplicative expressions of numerals	83
Table 4.1 - Personal pronouns	100
Table 4.2 - Demonstratives with case markers	. 110
Table 4.3 - Spatial and temporal nouns	. 114
Table 4.4 - Temporal adverbs	.120



# List of figures, maps and pictures

Figure 1.1 - Cheng (2016a)'s classification of Paiwan dialects	9
Map 1.1 - Villages in Jinfeng Township	2
Map 1.2 - The approximate distribution of the subgroups of Paiwan	6
Map 1.3 - The approximate location of old sites of tribes in Jinfeng villages	16
Picture 1.1 - (Stimulus)	24
正文 ID ID ID ID ID ID ID ID ID ID	



# Lists of conventions

## Orthography

This thesis generally adopts the orthographic system formulated by Ministry of Education (教育部) of Taiwan in 2005, since most Paiwan textbooks of Paiwan use the transcription. <sup>1</sup>

Phoneme	Grapheme	Phoneme	Grapheme	Phoneme	Grapheme
/p/	p	/ts/ TX	c	/ʎ/	lj
/b/	Ъ	/v/	v	/w/	w
/t/	t	/s/	S	/j/	у
/d/	d	/z/		/a/	a
/d/	dr	/h/	h	/e/	e
/c/	tj Z	/m/	m	/i/ <u></u>	// i
/ɟ/	dj	/n/	n	/u/	// u
/k/	k	/ŋ/	ng	miy	
/g/	g	/r/ he	ngehi		
/?/	3	/V			

In the official document, The comma 'is set for the representation of glottal stop /?/. However, in my thesis I would use ? to avoid confusion with the comma for punctuation.

<sup>&</sup>lt;sup>1</sup> See http://ws.moe.edu.tw/001/Upload/6/RelFile/6508/7828/aboriginal.pdf.

# Glossing abbreviations

1	First person	NEG	Negative
2	Second person	NMZ	Nominalizer
3	Third person	NOM	Nominative
AUX	Auxiliary	OBL	Oblique
AV	Actor voice	OPT	Optative
CAUS	Causative	ORD	Ordinal
CL	Sortal affix	PFV	Perfective
CMN	Common	PL /	Plural
COMP	Comparative	PROG	Progressive
CON	Continuous	PRL	Personal
COS	Change of state	PROX	Proximal
CPL	Completive	PST	Past
DIM	Diminutive	RECP	Reciprocal
DIST	Distal	RED	Reduplicant
EXCL	Exclusive	REF	Reflexive
EXIST	Existential verb	SG	Singular
IRR	Future	SPEC	Specific
GEN	Genitive	STAT	Stative
HAB	Habitual	SUPL	Superlative
IMP	Imperative	UVC	Circumstantial undergoer voice
INCL	Inclusive	UVL	Locative undergoer voice
IRR	Irrealis	UVP	Patient undergoer voice
LIG	Ligature	VIS	Visible
MULTI	Multiplicative	VOC	Vocative
-			

The abbreviations listed on the previous page generally follow the appendix of Leipzig Glossing Rule.<sup>2</sup>

## Interlinearlization Representation

The morpheme-by-morpheme interlinearlization in this thesis typically follows the conventional format of the Leipzig Glossing Rule.

The following shows the representation of each morphological unit.

Unit	Representation	Unit K	Representation
Prefix	X- X-	Proclitic	X=
Suffix	-X	Enclitic	=X
Infix	<x></x>	Ruduplicant	X~ / ~X~
Circumfix	XY	LX	-

There is no solution for the root-internal reduplicant in the Leipzig Glossing Rule. In this thesis, I use ~RED~ to represent it, such as  $2a\sim tjuvi\sim tjuvi$  'worm', which is a derived from the root 2atjuvi 'snake'. In addition, the gloss of bipartite elements are repeated, as shown in (1) and (2). Infixes are treated as left-peripheral elements, as shown in (3).

(1)	?a~tjuvi~tjuvi	(2)	ka-?atjuvi-an	(3)	c <in>avu</in>
	snake~DIM~snake		genuine-snake-genuine		<uvp>pack</uvp>
	'worm'		'hundred-pacer'		'be packed

-

<sup>&</sup>lt;sup>2</sup> See https://www.eva.mpg.de/lingua/resources/glossing-rules.php.



國立政治大學研究所碩士論文提要

研究所別:語言學研究所

論文名稱:北金峰鄉排灣語形態句法—以指示語為研究核心

指導教授: 戴智偉

研究生: 黄鈺閔

論文提要內容:(共1冊,32758字,分5章17節)

本論文為北金峰鄉排灣語的形態句法描述,並以指示語為研究之核心。所有語料皆採集自九次的短期田野調查,而每次的田野調查平均為期兩週。田野地點包含了正興村 (sinapayan)、嘉蘭村 (kaʔaluan) 以及新興村 (sapulju)。

在音韻方面,本文探討了音素、音節以及重音;在構詞方面,本文闡述如何定義 及分類各種語素與詞類;在論元結構方面,本文針對述語、論元進行了概述,探討語 態系統如何運作論元之排列模式。根據句法構詞特徵,本論文對名詞及動詞作了分 類,並探討名詞組及動詞組結構之修飾語。本文的核心——指示語 (deixis),將分為人 稱代名詞、指示詞 (demonstrative) 及表達空間與時間之結構,進行系統性之探究。本 文的最後為結論與未來研究方向之建議。



### Abstract

This thesis is a morphological description of Paiwan as spoken in the north of Jinfeng Township, with a focus on deictic expressions. The field locations include *sinapayan* 'Zhengxing village', *kaʔaluan* 'Jialan village' and *sapulju* 'Xinxing village'. All data are collected in nine short periods of my field research, each of which lasted for two weeks on average.

In the discussion of phonology, phonemes, syllable structure and stress are covered. As for morphology, this thesis discusses how morphemes and lexical items are defined and classified. Concerning argument structure, this thesis gives an overview of predicates, arguments and discusses how voice system operates argument alignment. Based on morphosyntactic features, this thesis presents a classification on nouns and verbs and the constituent elements of noun phrase and verb phrase. As the core part, deictic markers are investigated systematically in this thesis, which include personal pronouns, demonstratives and spatiotemporal constructions. The conclusion and suggestions for future research are given in the final.



## **Chapter 1: Introduction**

This chapter specifies the significance of this thesis and gives a broad overview of Paiwan. Section 1.1 gives the motivation. Section 1.2 states the objective of this thesis. Section 1.3 presents the organization of this thesis. Section 1.4 gives a brief overview of some basic information, origin and ethnic subgroups of Paiwan. Section 1.5 is literature review, which consists of dialectology, descriptive grammars, morphosyntactic typology and deixis. Section 1.6 is methodology, which mainly presents information of my fieldwork.

#### 1.1 Motivations

My research on Paiwan started with my participation in the two projects of Ministry of Science and Technology (MoST 104-2410-H-004-139 and MoST 105-2410-H-004162) proposed by Dr. Rik De Busser. The first project aimed to investigate the encoding of some concepts of Christianity in indigenous cultures and explore the linguistic influence of Christianity on the Bibles of three of the Formosan languages: Bunun, Atayal and Paiwan. I was responsible for the investigation of the Paiwan data, and I selected Jinfeng Township as my field location (see Section 1.4.1).

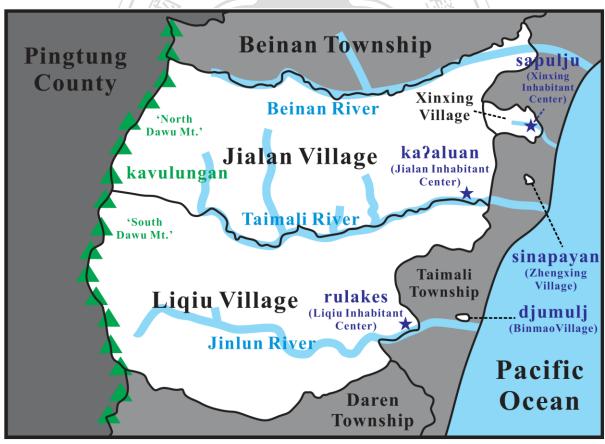
In the beginning, I decided to write a sketch grammar about the dialects spoken in Jinfeng Township, because they are generally unexplored (see Section 1.5.2). After collecting and analyzing data for a period of time, I found that there is much potential for locative and temporal expressions in my database to be presented systematically. Since they are quite relevant to deixis, I particularly selected deixis as a focus for my thesis, which is presented as a whole chapter (see Chapter 4).

### 1.2 Objective

This thesis aims at describing morphosyntax and deictic expressions of Paiwan as spoken in *sinapayan* 'Zhengxing Village (正興村)', *kaʔaluan* 'Jialan Village (嘉蘭村) and *sapulju* (新興村) in *kinzang* 'Jinfeng Township (金峰鄉)' in Taitung County (臺東縣). I call the dialect 'North Jinfeng Paiwan'. As shown in Map 1.1, the three villages are all located in the north of the Taimali River (太麻里溪), which roughly bisects the area of Jinfeng Township. *Djumulj* 'Binmao Village (賓茂村)' and *rulakes* 'Liqiu Village (壢坵村)' are located in the south of Jinfeng Township.

Map 1.1

Villages in Jinfeng Township<sup>3</sup>



-

<sup>&</sup>lt;sup>3</sup> The white regions, including the two enclaves, belong to Jinfeng Township.

Here, I explain why I use the name 'North Jinfeng Township'. First, the dialects spoken in *sinapayan*, *kaʔaluan* and *sapulju* are generally the same or belonging to the same dialect group (see Section 1.5.1). Second, *rulakes*, one of the south Jinfeng villages, speaks a quite different dialect, due to its entirely different sources of migration compared with other four Jinfeng villages (see Section 1.6.1). Therefore, I use 'North Jinfeng Paiwan' to roughly refer to the dialect. Actually, another south Jinfeng village, *djumulj*, also speaks the same dialect, since there is close family relationship between *djumulj* and *sapulju* for historical reasons (see Section 1.6.1).

### 1.3 Organization of this thesis

This section presents the organization of this thesis. Section 1.4 to Section 1.6 provides introductory information. Chapter 2 gives a grammatical profile and includes an overview of phonology, morphology, word class, nominal affixes, verbal affixes and grammatical relations. Chapter 3 deals with classifications of nouns and verbs, complements of nominal and verbal heads and the structure of noun and verb phrase. Chapter 4 presents deictic expressions, including personal pronouns, demonstrative and spatiotemporal expressions. The final chapter makes a conclusion and gives suggestions for future research.

#### 1.4 Introduction on Paiwan

The people of Paiwan are distributed mainly in the east side of Pingtung County and central and southern Taitung County in the south of Taiwan. According to statistics from Council of Indigenous Peoples (原住民族委員會) of Taiwan, in May 2018, the population of Paiwan is 100,775, which is second only to Amis (population: 209,668) among the indigenous population.

Following the anthropological classification of Utsurikawa et al. (1935), there are two

subgroups of Paiwan: ravar (拉瓦爾) and vuculj (布曹爾).4 The residence of ravar is mainly in Sandimen Township and is close to that of Rukai. Therefore, their customs and habits are influenced by each other (e.g. the wear of lily). Different from *vuculi* (except *pagalugalu*) who refer to kavulungan or tjagaraus 'Dawu Mountain (大武山)'5 as the most sacred place where the souls of ancestors have returned to, the supreme place for ravar is tjaivuvu 'Damumu Mountain (大母母山)' (Bima, 2002; Tan, 2007).

Vuculi make up more than 90% of the total Paiwan population. Their distribution range is much wider than that of ravar, since they have migrated around for several times. In the process of migration, the contact with different groups such as Chimo (箕模族)<sup>6</sup>, Puyuma, Rukai, Makatao, Amis, and some other aborigines living in the plains made the high internal ethnical complexity of vuculj. The cultural characteristics and language have changed. Therefore, the subgrouping of *vuculj* is a troublesome issue, where the boundary between some subgroups are quite blurred. In general, the most frequently mentioned subdivisions of vuculj are paumaumaq, caupupulj, paljizaljizav, and paqaluqalu among most literature (Bima, 2002; Kadrangian, 2014; National Development Initiatives Institute, 2006; Tan, 2007; Yah, 2013). Since the subgroups have been widely discussed in the abovementioned ethnological studies, I do not discuss all of them in my thesis. This thesis investigates Paiwan spoken in Jinfeng Township, and I only discuss the eastern subgroups.

In most literature, the *pagalugalu* refers to all Paiwan people who live in Taitung County. However, according to Pan (2017:51) and my informants, paqaluqalu is rarely used by most eastern Paiwan people. Instead, they use *segalugalu* to refer to the subgroup which

<sup>&</sup>lt;sup>4</sup> In some literature, *ravar* is spelled as Raval, and *vuculj* as Butsul.

<sup>&</sup>lt;sup>5</sup> Moth *kavulungan* and *tjagaraus* refer to Dawu Mountain. The former means 'the real residence of ancestors' (the root vulung means 'old'), while the latter is name of a god also used to indicate Dawu Mountain out of its sanctity.

<sup>&</sup>lt;sup>6</sup> According to Li (1956:58), The ethnic group of Chimo resided in central Pingtung County, north to the region of Linbian River (林邊溪) and south to the region of Fenggang River (楓港溪). Some of them might have migrated to Taitung County. Nowadays, they are almost Paiwanized and are regarded as Paiwan people in general.

has close contact with the *katripulr* (知本) Puyuma and use *sezayazaya* to call other subgroups.<sup>7</sup>

Long ago, the *katripulr* Puyuma migrated southward and ruled the people of *vuculj* who migrated from the west, Amis and Makatao. Their reigning territory was once widespread throughout almost the entirety of Taitung County and southeastern Hengchun Peninsula before. Most of them gradually blended in with the *vuculj* society and spoken the language of Paiwan.

The *seqaluqalu*, staying in northern Taimali Township, have especially close contact with the southward-migrating Puyuma. The customs of *seqaluqalu* exhibit a mixture of Paiwan and *katripulr* Puyuma (Pan, 2017). Some of them believe that they are originated from *luvuqan* (陸發案) rather than *kavulungan*.<sup>8</sup>

The Puyuma influence on the *sezayazaya*, who inhabit in southern Taimali Township, Jinfeng Township, Daren Township and Dawu Township, is not as great as that on the *seqaluqalu*. Like western *vuculj*, the *sezayazaya* believe that their origin is from *kavulungan*. Besides, there were some Rukai emigrating southward from present-day Wutai Township (霧台鄉) to Jinfeng Township.

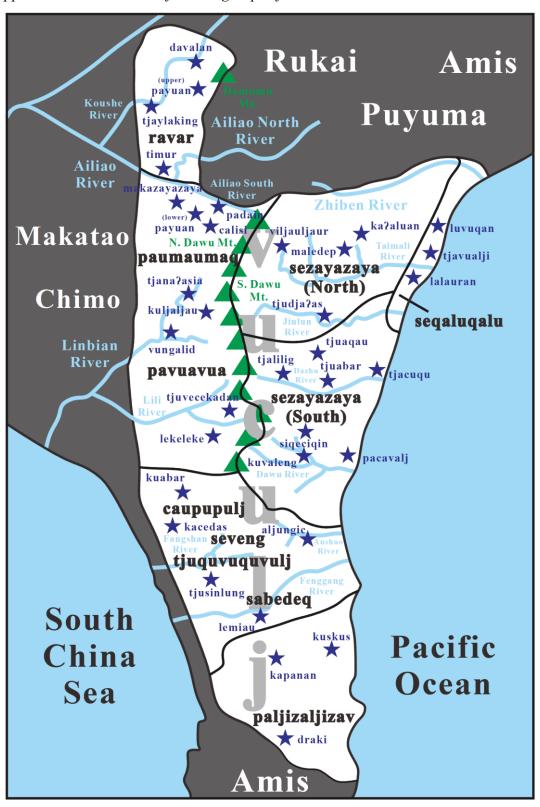
5

<sup>&</sup>lt;sup>7</sup> In some literature, *pagalugalu* is spelled as *pagarogaro*, and *segalugalu* as *segarogaro*.

<sup>&</sup>lt;sup>8</sup> Luvuqan (陸發案) is located in the eastern coastline in northern Taimali Township.

Map 1.2

The approximate distribution of the subgroups of Paiwan<sup>9</sup>



\_

<sup>&</sup>lt;sup>9</sup> Inspired by Yah (2013:36), I drew this map. The star marks indicate the center of the tribes or traditional territories as possible. Some of the locations indicated by the star marks are no longer inhabited.

#### 1.5 Literature review

This section gives a description of existing research on subjects central to this thesis.

Section 1.5.1 discusses Paiwan dialects. Section 1.5.2 lists the previous works of descriptive grammar of Paiwan. Section 1.5.3 presents typological sketch of Paiwan morphosyntax from previous studies.

#### 1.5.1 Dialectology

According to most official classifications <sup>10</sup>, there are four dialects of Paiwan: North Paiwan, Central Paiwan, South Paiwan and East Paiwan. The territory of North Paiwan roughly includes Sandimen Township (三地門鄉), Majia Township (瑪家鄉) and northern Taiwu Township (泰武鄉); that of Central Paiwan roughly includes southern Taiwu Township (泰武鄉), Laiyi Township (來義鄉) and northern Chunri Township (春日鄉); that of Southern Paiwan roughly includes southern Chunri Township (春日鄉), Shizi Township (獅子鄉), Mudan Township (牡丹鄉) and Manzhou Township (満洲鄉); and that of East Paiwan includes all the Paiwan-populated townships in Taitung County (Bima, 2002; National Development Initiatives Institute, 2006:85). The main problem of this classification is that each of the demarcated dialect group sweepingly include various dialects. In the following, we discuss some recent studies on the classification of Paiwan dialects. As far, there is still no consensus in the classification of Paiwan dialects. However, there have been considerable results in recent years.

Ho (1978) compares five dialects of Paiwan and tries to reconstruct Proto-Paiwan. His selected locations for the five dialects are: *stimur* (地磨兒), *payuan* (筏灣/排灣), *butanglu* (丹路), *tjavualji* (大王/太麻里) and *tjuabar* (土坂). Ho divides Paiwan into two dialectal branches: Northwest and Southeast. The palatal phonemes, *tj* /c/ and *dj* /ɪ/, have dentalized to

7

<sup>10</sup> See <a href="http://lokahsu.org.tw">http://lokahsu.org.tw</a>. Accreditation of the Aboriginal Languages Proficiency (原住民族語言能力認證測驗).

t /t/ and d /d/ in the former; the latter preserves the distinctions. However, recent research (Cheng, 2016) confirms that the dentalization takes place only in a small number of northern dialects.

Ferrell (1982:6) divided Paiwan into six dialect area by a phonological comparison in his dictionary work. The six dialect areas are: A1 for *kaljaljau* (古樓), *payuan* (筏灣/排灣) and *tjuaqaciljay* (加芝來), A2 for *lekeleke* (力里) and *pacavalj* (大鳥), B1 for *tjukuvulj* (德文) and *kaviangan* (佳平), B2 for *makazayazaya* (瑪家) and *tjaljakavus* (來義), B3 for *tjalilig* (森永) and B4 for *tjavualji* (大王/太麻里).

Lee (2011:18-20) provides several criteria for the classification of eastern dialects and assumes that the eastern dialects should be grouped under the Southeast group proposed by Ho (1978), which can be further divided into three sub-branches: Northern, Central and Southern. The dialects of *kadraluljan* (新園), *sinapayan* (正興), and *putung* (布頓) and *tjudjaas* (近貴) belong to the Northern branch. The Central branch includes *lalawlan* (新香蘭), *tjubar* (土坂) and *tjavualji* (大王/太麻里). The Southern branch *cavali* (多良), *djaqup* (愛國埔), *pacavalj* (大鳥) and *aljungic* (安朔).

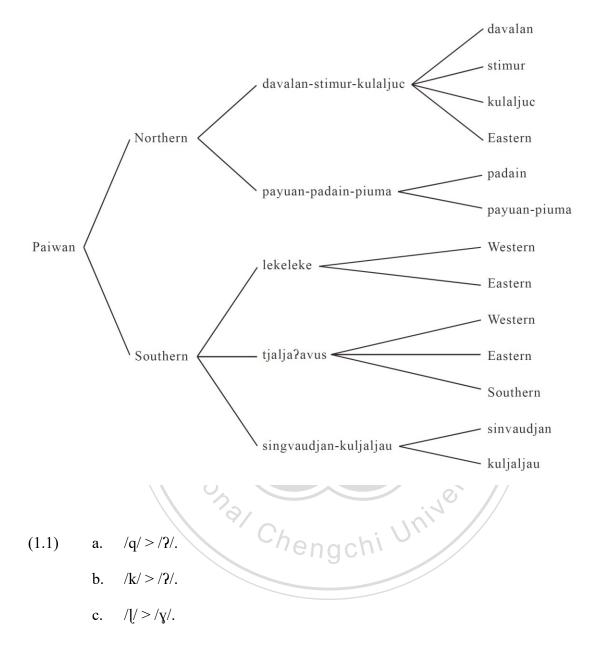
Cheng (2016) did an elaborate survey of sounds in 90 locations for his doctoral dissertation. He drew several maps that show phonological features of dialects spoken in these locations. He divided Paiwan dialects into two main groups, Northern and Southern, with multi-level sub-branches, as shown in Figure 1.1. The dialect boundary is generally the boundary between Taiwu Township and Laiyi Township. The primary feature for his subgrouping is the pronunciation of tj and dj. In Northern dialect group, they are pronounced as stops /c J/ or /c<sup>j</sup> J<sup>j</sup>/; in the Southern dialect group they are pronounced as affricates /tc dz/. In a small number of northern dialects, /c/ and /J/ are dentalized to /t/ and /d/. Secondary features are shown as (1.1).

8

<sup>11</sup> Putung (布頓) and tjudjaas (近黄) are old tribes that are related to the present-day sapulju (新興) (see Section 1.6.1). Tjudjaas is spelled as djudja?as in Lee (2011).

Figure 1.1

Cheng (2016a)'s classification of Paiwan dialects<sup>12</sup>



(1.1a) takes place in northern and northeastern dialects (except for those in Taimali Township). (1.1b) occurs in dialects originating from *tjaljaʔavus* (內社/來義) such as some southern dialects and *tjavualji* (大王/太麻里). (1.1c) takes place in dialects originating from *lekeleke* (力里) such as *rulakes* (歷坵) in southern Jinfeng Township and some dialects in

<sup>12</sup> This figure only shows the first to the third level of subbranches.

southern Taitung County. Besides, there are various regional and tribal features as well.

By synthesizing early records (Ogawa and Asai, 1935), Lee (2011) and Cheng (2016), Ang (2018:56-57) divided Paiwan dialects into three branches: Northern, Southern and Highland. The features for his subgrouping are shown as (1.2).

(1.2) a. 
$$/q/ > /?/$$
 or Ø

b. 
$$/c/ > /te/$$
 and  $/J/ > /dz/$ 

c. 
$$/k/ > /?/ \text{ or } \emptyset$$

d. 
$$/\frac{1}{2} > \frac{\gamma}{r} > \frac{\kappa}{r}$$
 and  $\frac{r}{r} > \frac{\gamma}{r}$ 

(1.2a) takes place in the Northern dialect branch. (1.2b) occurs in the Southern dialect branch, which is divided into two main subgroups: dialects originating from *tjalja?avus* (內社/來義) and those originating from *lekeleke* (力里). (1.2c) takes place in the former, and (1.2d) occurs in the latter. All these sound changes do not occur in the Highland dialect branch in general.

#### 1.5.2 Descriptive grammars

This section gives an overview of descriptive grammars of Paiwan according to the time of their publication, as listed in Table 1.1.

Ferrell (1982) gave a grammar sketch in his Paiwan dictionary based on the dialect spoken in *kuljaljau* (古樓) in Laiyi Township (來義鄉). Chen and Ma (1986) published a brief introduction of Paiwan spoken in *pucunug* (文樂) in Laiyi Township. Egli (1990) surveyed the dialect spoken in *tjatjigel* (大溪), which is located between Taimali Township (太麻里鄉) and Dawu Township (大武鄉). He is the first researcher who wrote a grammatical description of Paiwan spoken in Taitung County. His grammar contains abundant lists of examples but unfortunately lacks a detailed description. Chang (2000)

published a sketch grammar of Paiwan spoken mainly in *tjaylaking* (賽嘉) in Sandimen Township (三地門鄉) and *vecekadan* (三和) in Majia Township (瑪家鄉). Early and Whitehorn (2003) laid out a grammar sketch as an appendix in their work of Paiwan text collections.

Table 1.1

Dialect basis of previous works on grammatical description of Paiwan

Work	Page	Language	Main dialect basis
Ferrell (1982:1-50)	50	English	kuljaljau (古樓), Laiyi Twp., Pingtung Cty.
Chen & Ma (1986)	139	Chinese	pucunug (文樂), Laiyi Twp., Pingtung Cty.
Egli (1990)	349	German	tjatjigel (大溪), Taimali Twp., Taitung Cty.
Chang (2000)	222	Chinese	tjaylaking (賽嘉), Sandimen Twp., Pingtung Cty.
	222		vecekadan (三和), Majia Twp, Pingtung Cty.
Early & Whitehorn	247	E. 11.1	valjulu (馬兒), Sandimen Twp., Pingtung Cty.
(2003:559-582)	240	English	makazayazaya (瑪家), Majia Twp., Pingtung Cty.
Claria (2006)	(2006)		tjaylaking (賽嘉), Sandimen Twp., Pingtung Cty.
Chang (2006)	482	English	timur (地磨兒), Sandimen Twp., Pingtung Cty.
Chang (2016)	193	Chinese	tjana?asia (義林), Laiyi Twp., Pingtung Cty.

On the basis of Chang (2000) and further fieldwork, Chang (2006) completed a PhD dissertation entitled 'A Reference Grammar of Paiwan'. The dialects she investigated are spoken in *tjaylaking* (賽嘉) and *timur* (地磨兒) in Sandimen Township. Though the dialects are generally the same as those explored in Chang (2000), there are richer and more extensive description and analysis in her doctoral dissertation, which includes phonology, morphology, phrase structure, simple and complex clauses and several grammatical systems. Chang (2016)

is a sketch grammar of Paiwan spoken in *tjanaʔasia* (義林) in Laiyi Township in the new Series of Austronesian Languages in Taiwan.

#### 1.5.3 Morphosyntactic typology

Two main categories of parts of speech in Paiwan are nouns and verbs. There are no categories of adjectives and adverbs in Paiwan. Adjectival meanings are expressed by verbs (Wu, 2004).

Paiwan is a predicate-initial language, where the predicate may be a verb or a noun (Chang, 2006:60; Chang, 2016:42-45). As mentioned by Li (2008:524), VSO and VOS are predominant word orders in Formosan languages and western Austronesian languages. In Paiwan, VOS is predominant, though other word orders such as VSO and SVO are attested as well (Chang, 2016:37).

The main device used to express argument alignment in a clause is the case markings on noun phrases, whose pattern is associative with the voice of verb. The voice system is one of the most prominent morphosyntactic characteristics in Austronesian languages. According to Himmelmann (2002), Paiwan belong to the 'Philippine-type' languages, as opposed to the 'Indonesian-type' languages. Voices of Philippine-type languages are generally divided into four types in indicative mood: actor voice (AV), patient undergoer voice (UVP), locative undergoer voice (UVL) and circumstantial undergoer voice (UVC), where the last three are collectively belong to the category of undergoer voice (UV), and UVC mainly subsumes benefactive undergoer voice (UVB) and instrument undergoer voice (UVI) (Ross, 2002; Zeitoun, 2005). 13

In most studies, the case markers are divided into three sets of categories. In the analysis of Huang et al.'s (1998) and Tang et al.'s (1998), the three sets of cases are nominative,

\_

 $<sup>^{13}</sup>$  In some studies (Li, 2008), 'focus' is used to refer to 'voice' mentioned here. There is considerable discussion on the term for thr voice/focus system (Blust, 2002; Himmelmann, 2002; Ross and Teng, 2005).

genitive and accusative; in the works of Chuang (2002) and Chang (2000, 2006, 2016), they are nominative, genitive and oblique; Starosta (1997) proposes an ergative hypothesis.

However, the ergative system is not universally accepted, since it involves the issue about the transitivity, which is still in debate in Paiwan and many other Philippine-type languages (Kroeger, 1993; Himmelmann, 1999; Chang, 2004; Reid & Liao, 2004; Aldridge, 2012).

Voices interact closely with mood and aspect. Ross (1995) points out a primary mood division between the indicative and non-indicative. Zeitoun et al. (1996) suggests a mood distinction between realis and irrealis. As for aspect, there is a primary distinction between perfective and imperfective (Zeitoun et al., 1996; Zeitoun and Huang, 1997; Weng, 2000). With respect to Paiwan, the irrealis is marked lexically and the perfective is marked morphologically (Zeitoun and Huang, 1997; Weng, 2000).

#### **1.5.4 Deixis**

Deixis refers to a word or a marker that carries an expression whose interpretation is relative to the contextual information. Levinson (1983:54) describes deixis as "concerning the ways in which languages encode or grammaticalize features of the context of utterance". The major grammaticalized categories of deixis include person, space and time deixis (Fillmore, 1971).

Person deixis encodes the participant roles in a speech event. The main manifestation of person deixis is the pronominal system (Hartmann and Stork, 1972:168; Levinson, 1983:62,69). Space deixis (or place deixis, spatial deixis) is reference to spatial location relative to the location of the participant roles in a speech event (Levinson, 1983:79). Time deixis (or temporal deixis) in concerned with the encoding of time relative to a temporal reference point, which is usually the time of utterance (Levinson, 1983:62; Lyons, 1977:682).

The pronominal system of Formosan languages receives a fair amount of attention (Li, 1997; Zeitoun et al., 1999; Ross, 2006), and there are usually free and bound forms. There are

at least three sets of personal pronouns in Formosan languages, according to case or function.

As for Paiwan, Zeitoun et al. (1999) suggests a neutral-nominative-genitive-oblique distinction, and Chang (2006) presents a nominative-genitive-oblique distinction.

Space deixis and time deixis are frequently discussed together, since they exhibit a peculiar relatedness (Haspelmath, 1997). Some studies on spatial and temporal expressions of Formosan languages are listed: De Busser (2009, 2013, 2017) and Huang (2016) for Bunun, Jiang (2006) and Lee (2016) for Kavalan, Pan (2007) for Tsou, Tsai (2006) for Saisiyat, and Li (2004, 2005) and Sung (2005) for Paiwan, among others. Concerning Paiwan, Li (2004) investigates the conceptualization of motion events and the spatial frames of reference, Li (2005) focuses on the spatial frames of reference, and Sung (2005) explores temporal expressions in both aspects of semantics and morphosyntax.

### 1.6 Methodology

This section presents research methods. A description of my field locations are discussed in Section 1.6.1, including an overview of Jinfeng Township and an introduction of each village in Jinfeng. Section 1.6.2 briefly introduces the informants. The techniques and tools I have used for collecting and analyzing data are discussed in Section 1.6.3.

#### 1.6.1 Field locations

The locations where I did field research with consultants are mainly in northern kinzang-gu 'Jinfeng Township (金峰鄉)' in Taitung County. <sup>14</sup> Kinzang-gu is located in southwestern Taitung County, with Taimali Township (太麻里鄉) bordering to the east, Pingtung County bordering to the west by high mountains, Beinan Township (卑南鄉) to the north, and Daren Township (達仁鄉) to the south.

 $^{14}$  Kinzang is the Japanese spelling of Jinshan, an old name of Jinfeng; -gu 'township' is a 'loan suffix' from Japanese.

14

The two highest mountains at the western border are North Dawu Mountain (北大武山) and South Dawu Mountain (南大武山), collectively known as Dawu Mountain, which is called *kavulungan* or *tjagaraus* (see footnote 5 on p.4) by *vuculj*. Most areas of Jinfeng Township are mountainous and the terrain goes higher toward the west.

As introduced in Section 1.2, there are five villages in Jinfeng Township. They are: sinapayan 'Zhengxing Village (正興村)', kaʔaluan 'Jialan Village (嘉蘭村)', sapulju 'Xinxing Village (新興村)', djumulj 'Binmao Village (賓茂村)' and rulakes 'Liqiu Village (歷坵村)', as shown in Map 1.1 on p.2.

Noticeably, *sinapayan* and *djumulj* are the enclaves surrounded by Taimali Township, but they administratively belong to Jinfeng Township. This is, from the outset, formulated by a series of policies, e.g. administrative politics on mountain indigenous area (山地施政要點), of demarcating 'mountain indigenous township' (山地鄉)<sup>15</sup> promulgated by the then Kuomintang Government in 1950s (Taiwan Historica, 1951). The title 'mountain indigenous township' was revised to 'aboriginal township' (原住民鄉) after the rectification by a constitutional amendment in 1994. By regulation of Local Government Act (地方制度法), the major inhabitants of an aboriginal township must be aboriginal people and the township mayor of an aboriginal township must have aboriginal identity. Therefore, some villages originally belong to Taimali Township were reassigned to the aboriginal township, Jinfeng Township, and vice versa.

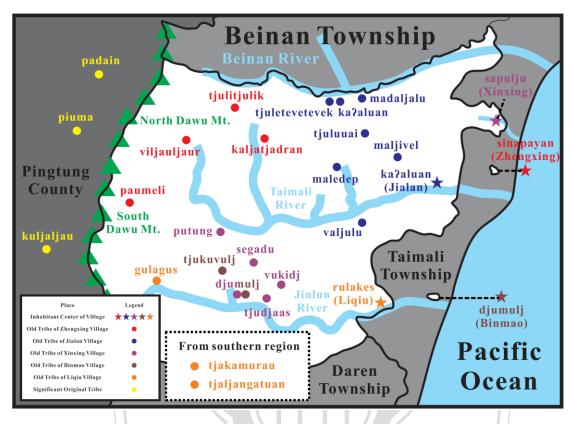
There are three main transmeridional rivers going across Jinfeng Township: Beinan River (卑南溪), Taimali River (太麻里溪) and Jinlun River (金崙溪). Most of the old Paiwan tribes of Jinfeng Villages are located near the river. Map 1.3 shows their approximate location. Due to multiple times of migrations, nowadays, the main population centers (the asterisks in Map 1.3) of Jinfeng Township are concentrated in the eastern side near Taimali.

\_

<sup>&</sup>lt;sup>15</sup> The idea of designating 'mountain indigenous township (山地郷)' comes from 'indigenous land (蕃地)' demarcated in Japanese Period.

Map 1.3

The approximate location of old sites of tribes in Jinfeng villages<sup>16</sup>



In addition to Paiwan, there were also some Rukai migrating from Wutai Township.

Nowadays, the approximate proportion of the population of each group in Jinfeng Township is: 85% Paiwan, 10% Rukai and 5% other groups.

Sinapayan 'Zhengxing Village (正興村)' is very close to the population center of Taimali Township. The Paiwan residents migrated from the four tribes, kaljatjadran (介達), viljauljaur (比魯), paumeli (包盛) and tjulitjulik (斗里斗里), in the upstream region of Taimali River. Some groups were moved to kadraluljan (新園) in Taitung City by the Japanese. The Rukai settlers migrated from Wutai Township. (Chang, 2008; National Development Initiatives Institute, 2006; Kadrangian, 2014).

<sup>&</sup>lt;sup>16</sup> Inspired by the maps of National Development Initiatives Institute (2006:93-144), Yah (2013:36) and some data on the website of Jinfeng Township office (金峰鄉公所), I drew this map. <a href="http://www.ttjfng.gov.tw">http://www.ttjfng.gov.tw</a>. Jinfeng Township Office.

Kaʔaluan 'Jialan Village (嘉蘭村)' is the administrative center of Jinfeng Township. The inhabitants of Jialan Village are concentrated in the eastern side. <sup>17</sup> The Paiwan inhabitants of kaʔaluan came from the tribes, kaʔaluan (卡阿魯灣), madaljalu (馬達壓路), tjuletevetevek (督魯德福德閣), tjuluuai (都魯烏外), maledep (麻勒得泊), maljivel (麻里弗勒) and valjulu (娃優魯). The Rukai settlers came from Wutai Township and mostly reside in Xinfu Community (新富社區) which is a slope district on the uppermost part of Jialan population area (National Development Initiatives Institute, 2006; Kadrangian, 2014). In addition to these tribes, there is also a small settlement, dralengedreng (拉冷冷), located opposite Jialan Village. <sup>18</sup>

Sapulju 'Xinxing Village (新興村/撒布優)' is located in the region of Wenli River (文里溪). The main population of Xinxing Village is concentrated in the eastern side. Almost all the residents are Paiwan people that migrated from the tribes in the upstream region of Jinlun River: tjudjaas (近黃), segadu (史卡多), djumulj (雨沐/舊寶茂), vikidj (富給特) and putung (布頓), where the people of segadu are immigrants from kuljaljau (古樓). The two clans, tjaviljaur (叉飛勞巫勒) and pavavalung (巴法法瀧), have close relationship with the clans in djumulj.

Djumulj 'Binmao Village (實茂村)' is located in the region of Jinlun River. 19 The settlers are mostly Paiwan migrated from djumulj (舊實茂/雨沐) and tjukuvulj (讀古物) in the upstream region of Jinlun River. The migration sites of people from djumulj and tjukuvulj also include the neighboring place tjudjaas, whose residents have moved to sapulju. Thus, the clans in Xinxing Village and Binmao Village are closely related. Besides, some people from djumulj were moved to kadraluljan (新園) by the policy of the Japanese.

<sup>&</sup>lt;sup>17</sup> ka?aluan may be a collective call for the present-day Jialan Village including several tribes, or it may refer only to the old tribe o ka?aluan.

Dralengedreng is an onomatopoeic name originated by the sound of water that flows over the stones.

<sup>19</sup> *Djumulj* can be a collective call for Binmao Village including several tribes and clans, or it can also refer only to the tribe of *djumulj*, which was in the midstream of Jinlun River and now one of the tribe in Binmao Village. The old site of *djumulj* is usually called 'Old Binmao (舊實茂)' or 'Yumu (雨沐)'

Rulakes 'Liqiu Village (歷坵村/魯拉克斯)' is located in the southern side of Taimali River. The inhabitants of rulakes are concentrated in the eastern side in the north of Jinlun River. The Paiwan inhabitants came from gulagus (露拉庫西), tjaljangatuan (出水坡) and kuabar (古華). Gulagus is located in the upstream region of Jinlun River; tjaljangatuan is located in upstream region of Dawu River; kuabar is in Chunri Township. There are Rukai settlers migrated from Wutai Township as well. Compared with other Jinfeng tribes, rulakes has quite different migration backgrounds.

#### 1.6.2 Informants

Six informants aged 49 to 81 participated in my field research, as shown in Table 1.2. From August 2016 to September 2017, I conducted nine short periods of field research, which lasted for two weeks on average.

Table 1.2

List of informants

Name	Gender	Age	Interview location	Information
Acudus Talealan (曾孝)	CM	78	ka?aluan	language
Bixin Lin (林碧鑫)	M	?	ka?aluan	culture/history
Ljumiyan Tjakulavu (溫待青)	F	81	sapulju	language
Mazeljzelj Curimudju (黃進成)	M	68	sinapayan	language
Sabu Daljawlep (左玉芳)	F	70	sapulju	language
Selep Taveljengan (菈露依)	F	49	ganuliu/diumuli	communication
Sciep faverjengan (业路水)		<del>4</del> 9	sapulju/djumulj	culture/history

The main informant providing language data for this thesis is Mazeljzelj Curimudju.

Other informants are: Ljumiyan Tjakulavu, Sabu Daljawlep, Selep Taveljaengan and Acudus
Telealan. Selep Taveljaengan served as a communication assistant in my interviews with
Ljumiyan Tjakulavu and Sabu Daljawlep.

In addition, for a better understanding of Paiwan culture and history, I have taken particular interviews about the culture or migration history of tribes. The consultants for this are Lin Bixin and Selep Taveljaengan.

### 1.6.3 Data collection and analysis

This section presents aspects of data collection and analysis. Section 1.6.3.1 presents the equipment and conditions for audio recording.

The types of data I collected include word lists, individual sentences, and traditional narratives. The method for collecting word lists is shown in Section 1.6.3.2. To collect individual sentences, three main methods were adopted. They are (i) sentence paraphrasing, (ii) correctness test, and (iii) stimuli using pictures, which are respectively discussed in Section 1.6.3.3, Section 1.6.3.4 and Section 1.6.3.5. The method of collecting narratives are discussed in Section 1.6.3.6. The main program adopted for analyzing linguistic data is FieldWorks Language Explorer (FLEx)<sup>20</sup>

#### 1.6.3.1 Recording equipment and conditions

A ZOOM H1 Handy Recorder and a laptop were used for audio recordings. Each informant was asked for oral permission to record their information before the first recording in which they participated. They were informed that the recorded data would be used only for academic research and would not be disseminated without further permission. The informants

<sup>&</sup>lt;sup>20</sup> See https://software.sil.org/fieldworks. SIL Fieldworks.

can also request for a break at any time in the duration of interview. The recording time of each interview ranges from 30 to 120 minutes.

#### 1.6.3.2 Collecting word lists

I used three methods to collect word lists. The first way is to ask randomly, or under a theme (e.g. animals, weather, numbers). The second way is to get vocabulary from the individual sentences. After the informant gives a sentence, I then ask him or her to explain each element in the sentence.

The third way is by derivation or by back-formation, that is, we ask the informant to derive words or to create words by removing affixes. We can show some words and their derived forms, and ask the informant if the kind of derivation can be applied to another base. We can also show some possible derived words and check if they can be segmented. A example is given in Table 1.3.

Regarding the technique of derivation, we show *kivangavang* 'play' and *ka-kivangavang-an* 'place for entertainment', and *ta?ed* 'lie' and *ta-ta?ed-an* 'bed; bedroom' to the informant. Then, we ask the informant if the kind of derivation can be applied to *vecik* 'write' and *se?etj* 'put'. The informant returns *va-vecik-an* 'blackboard; workbook; notebook' and *sa-se?etj-an* 'cabinet; storage place' and also tells the word *va-vecik-en* 'homework; assignment' when mentioning *va-vecik-an*.

Regarding the technique of back-formation, we guess that the words for 'chopping board' and 'vase; flower pot' should be derived forms. By inquiring, we get *tjatjagetjagan* 'chopping board' and *papuhanaan* 'vase; flower'. By checking the words for 'chopping board' and 'vase; flower', we find that they can be segmented into *tja-tjagetjag-an* and *papuhana-an*. By asking the informant, the word *tjagetjag* 'cut' and *puhana* 'put flowers' do exist. The informant also point out the word *pu-hana-an* 'garden'.

Table 1.3

A sample of collecting word lists by derivation and back-formation: Ca--an<sup>21</sup>

Meaning	Derived word	Meaning
'play (玩)'	ka-kivangavang-an	'place for entertainment (玩樂場所)'
'sleep (睡)'	ta-ta?ed-an	'bed; bedroom (床;臥室)'
		'blackboard; workbook; notebook (黑
'write (寫)'	va-vecik-an	板;練習簿;筆記本)'
	va-vecik-en	'homework; assignment (作業)'
'put (放)'	sa-se?etj-an	'cabinet; storage place (櫃子;存放處)'
'cut (切)'	tja-tjagetjag-an	'chopping board (砧板)'
'put flowers	pa-puhana-an	'vase; flower pot (花瓶;花盆)'
(放花)'	puhana-an	'garden (花園)'
	'play (玩)' 'sleep (睡)' 'write (寫)' 'put (放)' 'cut (切)' 'put flowers	'play (玩)' ka-kivangavang-an   'sleep (睡)' ta-ta?ed-an   'write (寫)' va-vecik-an   'put (放)' sa-se?etj-an   'cut (切)' tja-tjagetjag-an   'put flowers pa-puhana-an

(sinapayan)

### 1.6.3.3 Collecting sentences - sentence paraphrasing

In sentence paraphrasing, I prepare several groups of written Chinese sentences before the interviews. And the informants are asked to paraphrase the Chinese sentences in Paiwan. The sentences are created with a specific purpose in mind. For sentences in each group, I would envisage both the commonness and the divergence of some compositions. The commonness means that each group may represent one grammatical category, while the divergence refers to the difference we expect to see. An example is shown in (1.3). The compositions to compare is underlined.

In (1.3), the commonness we have assumed is that both of the compositions are noun phrases, and the divergence we expect to see is that there is the difference of some uses between non-human and human noun phrases. The Paiwan data collected for (1.3) are shown

<sup>&</sup>lt;sup>21</sup> Information collected by inquiring the informant are shown in the gray lattices.

in (1.4). In (1.4a), the NP construction is [NUM ADJV LIG N], and in (1.4b), the numeral is preceded by an element. We may guess that the element marks human referents.

(1.3) Commonness: Noun phrases

Divergence: Animacy (non-human vs. human)

a. Chinese sentence: 巷子裡有兩棵老樹。

English translation: In the alley are two old trees.

b. Chinese sentence: 我家一共有四個人。

English translation: There are <u>four people</u> in my family.

- (1.4) a. izua drusa vulu~vulung a kasiv i-tja-ljapitjapi.

  EXIST two RED~elder LIG tree LOC-SPEC-alley

  'There are two old trees in the alley.' (sinapayan)
  - b. malje-sepatj=amen a ta uma?an.

    CL.H-four=NOM.1PL.EXCL LIG OBL.CMN family

    'There are four people in my family.' (sinapayan)

However, by this method, the data collected may not be in line with our expectations (we may get some other results by serendipity, however). The possible reasons may be:

- i. The language of Chinese affects the expression of the informant.
- ii. The usage of the sentence we expect to get is grammatical, but it is unnatural.
- iii. The informant paraphrases the sentence in another way.

#### 1.6.3.4 Collecting sentences - correctness test

The second method for collecting individual sentences, the 'correctness test', is to modify sentences by some rules we have found (add or remove some elements, replace an element with another, etc.) and check if the modified sentences are grammatical and natural by inquiring the informants. The informants may then get some inspirations from the modified sentences and tell us more about some situations in which some sentences may be uttered. An example is shown in (1.5). The original sentence we have is (1.5a). We modified it into (1.5b) and asked the informant if it is grammatical. The informant says that it is not and returns (1.5c), (1.5d) and (1.5e).

(1.5)vaik-u s<em>a-kungkuan. go-IMP.EXCL.AV LIG <AV>go.to-school 'Go to school!' (sinapayan) b. s<em>a-kungkuan! ?vaik-an go-IMP.EXCL.UVC LIG <AV>go.to-school 'Go to school (for the thing the speaker refers to)' (sinapayan) vaik-an a-kungkuan k < em > an!c. go-IMP.EXCL.UVC LIG <AV>go.to-school LIG <AV>eat '(Bring the breakfast and) Go to school to eat!' (sinapayan) d. vaik-an s<em>a-kungkuan kisupu! go-IMP.EXCL.UVC LIG <AV>go.to-school LIG study '(Take to textbook and) Go to school to study!' (sinapayan)

By (1.5c) and (1.5d) inspired by the informants, we find out that the command should emphasize a referent (e.g. breakfast, textbook) related to what the addresser would do in the school. Although the informant refuses the sentence of (1.5b), we can not say that it is

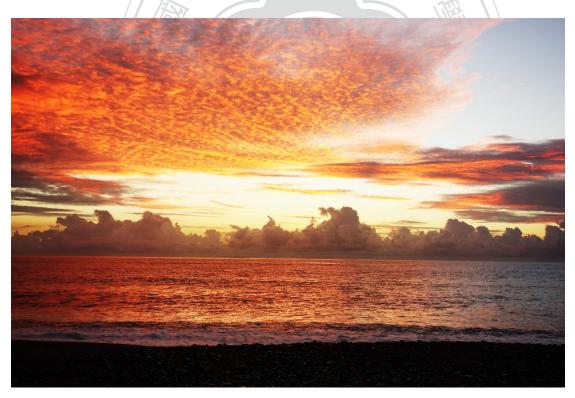
ungrammatical, since some improbable sentences may reasonably be uttered in very specific contexts. This is the main problem of this technique.

# 1.6.3.5 Collecting sentences - stimuli using pictures

By stimuli using pictures, I give the informant a picture as stimulus. As the name implies, the informants are asked to describe the picture in any way.

An example is shown in **Picture 1.1**, and the sentences in (1.6) is what two of the informants have given. The advantage of this method is that it may avoid unnaturally produced sentences.

Picture 1.1



### (1.6) a. Informant 1

ma-ledep a ?adav, p < in > a-pe-?udjerelj = anga

STAT-sunset NOM.CMN sun <UVP>CAUS-become-reddish=COS

na suliap a ljave?.

GEN.CMN red.sky NOM.CMN sea

'The sun goes down. The pink clouds, make the sea red.' (sinapayan)

#### b. <u>Informant 2</u>

ma-ledep=anga (a) ?adaw, ?udjerelj a

STAT-sunset=COS NOM.CMN sun reddish NOM.CMN

kalevuluvan.

sky

'The sun has already gone down. The sky is reddish.' (sapulju)

## 1.6.3.6 Collecting narratives

In collecting narratives or collecting another other style of monologue such as exposition, lecture, speech, procedure description and ritual talk, an informant would tell long texts in Paiwan and explain them by Chinese. The Paiwan and Chinese texts uttered by the informant are sometimes not perfectly corresponding to each other. The meaning of some texts would be uncertain in the initial analysis so that multiple times of further inquiries are required. The transcriptions of two narratives are shown in the appendix. Both of them are collected in *sinapayan*.

Collecting long texts is essential for linguistic field research. In long texts, there are a lot of context-sensitive usages, which are hardly collected by the methods introduced in the previous sections. Besides, some of the usages and words are only used endemically, and that would be important for investigating the variation of dialects.



# **Chapter 2: Grammatical Profile**

This chapter presents basic grammatical characteristics of North Jinfeng Paiwan. Section 2.1 gives an overview of phonology. Section 2.2 deals with word structure and word formation. Section 2.3 discusses categories of roots, stems and words. Section 2.4 presents the argument structure.

### 2.1 Phonology

This section consists of three parts. Section 2.1.1 treats phonemes, with some notes on distinction between North Jinfeng Paiwan and other dialects. Section 2.1.2 describes syllable structure, including syllable combinations, some restrictions on consonant clusters and vowel sequences. Section 2.1.3 discusses stress.

#### 2.1.1 Phonemes

Paiwan has a large number of consonant phonemes. In contrast with other Formosan languages, Paiwan does not show extensive mergers and splits among PAN stops. Ferrell (1982:1) mentions that "Paiwan is the only Formosan language having a phoneme inventory directly comparable to the PAN inventory proposed by Dempwolff and emended by Dahl's (1973:101)". There are at least 22 native consonant phonemes in any dialect investigated in previous studies (Ferrell, 1982:7; Chang, 2006:21; Chen, 2009:595; Yeh, 2011:9; Huang, 2012:11; Chang, 2016:9).

As shown in Table 2.1, there are 22 native consonant phonemes in North Jinfeng Paiwan.

Table 2.1

Consonant inventory of North Jinfeng Paiwan<sup>22</sup>

		Labial	Dento-Alveolar	Retroflex	Palatal	Velar	Glottal
C4	voiceless	/p/	/t/		/c/	/k/	/?/
Stop	voiced	/b/	/d/	/d/	/ɟ/	/g/	
Na	ısal	/m/	/n/			/ŋ/	
Enicativa	voiceless		/s/				(/h/)
Fricative	voiced	/v/	/z/				
Affricate	voiceless		/ts <sup>h</sup> /	4			
Liq	<sub>l</sub> uid	/ 5	/r/	/\/	/ʎ/		
Gl	ide	/w/			/j/		

My survey has found no overt phonemic distinction among the dialects spoken in *sinapayan* (正興), *kaʔaluan* (嘉蘭) and *sapulju* (新興). A subtle distinction is that speakers in *sinapayan* and *kaʔaluan* tend to pronounce /-v/ instead of /-w/, whereas in *sapulju*, some preserve /-w/ and some do not. This finding corresponds to Lee's (2011) research.<sup>23</sup>

The contrast of consonant phonemes is proved by minimal pairs or near minimal pairs in Table 2.2. Among the 22 native consonant, there are 14 obstruents, containing 10 stops, 4 fricatives and 1 affricate. All obstruents besides the affricate /tsh/ are unaspirated. Onset obstruents are all released, whereas coda obstruents except /?/, /s/ and /tsh/ do not have audible release. /h/ is a loan phoneme that occurs only in the position of onset.

There are three nasals, three liquids and two glides. The underlying word-internal onset

<sup>&</sup>lt;sup>22</sup> The loan phoneme is shown in parenthesis.

<sup>&</sup>lt;sup>23</sup> Paiwan residents in *sapulju* migrated from the tribes in the upstream region of Jinlun River, including *tjudjaas*, *segadu*, *djumulj*, *vikidj and putung* (see Section 1.6.1). Thus, the dialect in *sapulju* exhibit a mixture of accents originating from different tribes. In Lee's (2011) survey, the sound change /-w/ > /-v/ is found in speakers from *putung* but not in speaker from *tjudjaas*. As for my research, one of my informants in *sapulju* belongs to the system of *segadu* and pronounces /-v/, the another one came from *djumulj* and pronounces /-w/.

labiovelar glide  $/\sigma$ .w-/ and the word-initial palatal glide /#j- $/^{24}$  occur only in loanwords, such as /w/ in taiwan [taj.wan] 'Taiwan' and /#j-/ in yuziru [ju.zi.ru] 'roselle'. 25

Table 2.2 (Near) minimal pairs of consonant phonemes

Phoneme	(Near) minimal pairs	
p b /p b/	pai [paj] 'please; well'	bai [baj] 'daughter; wife [VOC]'
t d /t d/	tutu [tu.tu] 'breast'	dudu [du.du] 'anger'
d dr /d d/	dingding [din.din] 'snail'	dringai [din.naj] 'two'
tj dj /c J/	matja? [ma.ca?] 'unripe'	ladjap [la.jap] 'not know; maybe'
kg/kg/	kula [ku.la] 'leg'	gula [gu.[a] 'cancel'
k?/k?/	kata [ka.ta] 'and'	Pata [?a.ta] 'bead'
g ?/g ?/	gemugu [gə.mu.gu] 'shout'	?emu?u [?ə.mu.?u] 'wash hair'
b v /b v/	<b>b</b> uka '[PR.M]'	vuka [vu.ka] 'shovel'
sz/sz/	sa [sa] '(visible proximal)'	za [za] '(distal)'
s c/s tsh/	sema [sə.ma] 'tongue'	cemas [tshə.mas] 'spirit'
m n/m n/	ma-[ma] 'STAT'	na [na] '[GEN.CMN]'
n ng /n ŋ/	nasa [na.sa] 'seem to be'	ngasa [ŋa.sa] 'crack'
1 lj /[ ʎ/	alu [a.[u] 'eight'	a <b>lj</b> u [a.ʎu] 'sugar'
1 r /[ r/	linima [[i.ni.ma] 'be done by hand'	rinida [ri.ni.da] 'slice of meat'

The dento-alveolar fricatives /s/, /z/ and affricate /tsh/ in North Jinfeng Paiwan are palatalized to the palato-alveolars  $[\mathfrak{f}]$ ,  $[\mathfrak{f}]$  and  $[\mathfrak{t}\mathfrak{f}^h]$ , respectively, before the high front vowel

No word-initial /w-/ is found in North Jinfeng Paiwan.

The phonetically surfaced glides are not counted here (e.g. [w] in kavuavuan [ka.vu.wa.vu.wan] 'field; garden', [j] in nutiav [nu.ti,jav] 'tomorrow').

/i/. This sound change is quite common in other dialects as well (Chen, 2006:64; Yeh, 2011:9). Young speakers of Paiwan may sometimes palatalize the voiceless /s/ and /ts/ into the alveolo-palatals [ɛ] and [tɛ], of which the mid body of tongue is used in articulation. Examples are given in (2.1).

(2.1)	Spelling	<u>UR</u> <sup>26</sup>	<u>SR</u>	Meaning
	kema <b>s</b> i	/kə.ma. <b>s</b> i/	[kə.ma. <b>ʃ</b> i]/[kə	.ma.ei] 'come from'
	zian	/zian/	[ <b>ʒ</b> i.jan]	'dance'
	<b>c</b> inavu <sup>27</sup>	/ <b>ts</b> hi.na.vu/	[tʃʰi.na.vu]/[tʃ	i.na.vu] 'millet dumpling'
				* \
(2.2)	Spelling	<u>UR</u>	<u>SR</u>	Meaning
	<b>tj</b> ikanga	/ci.kaŋ.ŋa/	[t <sup>j</sup> i.kaŋ.ŋa]	'eagle'
	<b>dj</b> i?esan	/ <b>J</b> i.?ə.san/	[d <sup>j</sup> i.?ə.san]	'pour over'
	<b>lj</b> imecav	/ʎi.mə.tsʰav/	[li.mə.ts <sup>h</sup> av]	'serene; sunny'
	driki <b>tj</b>	/di.ki <b>c</b> /	[di.kit]	'short'
	masili <b>dj</b>	/ma.si.li <b>y</b> /	[ma.si.[id]	'Beiye Village (北葉村)'
	viljevi <b>lj</b>	/\hiv.e\land	[vi.sə.vil <sup>j</sup> ]	'next one; future'

<sup>&</sup>lt;sup>26</sup> UR (Underlying Representation) is the phonological representation of a word postulated to have before application of phonological rules. SR (Surface Representation) is the phonetic representation of a word.

<sup>27</sup> Both *avai* (阿拜) and *cinavu* (奇拿富) are aboriginal dumplings popular in southeastern Taiwan. Both of them are mainly composed of millets, taro or some meat, and wrapped with leaves of Shell Ginger. Their difference is the form of millet. In *avai*, the millets are ground into stuffing like rice cake; in *cinavu*, millet

grains are intact.

28 The superscript symbol [i] indicates a secondary palatal articulation, which is a slight superimposition upon the primary sound. Bateman (2007:235-248) did an elaborate research on the secondary palatalization pattern.

the high vowel in the final position are fronted as well.

/q/ does not exist in North Jinfeng Paiwan. The sound has changed into /?/. In southern Paiwan region the east coast region (e.g. *tjavualji*), /q/ is well preserved (Cheng, 2016).

The liquids /r  $\lfloor \frac{\hbar}{\hbar}$  are unaspirated and released. In North Jinfeng Paiwan, no allophones are attested for the trill /r/, whereas in some central and southern dialects it may have the allophonic alternation of voiced velar fricative / $\frac{\chi}{\hbar}$ , voiced uvular fricative [ $\frac{\kappa}{\hbar}$ ] or voiced glottal fricative [ $\frac{\hbar}{\hbar}$ ] (Chen, 2006:45,48). / $\frac{\hbar}{\hbar}$  is a lateral retroflex, whereas in some northern dialects it may be an alveolar flap / $\frac{\hbar}{\hbar}$  (Chang, 2006:21). Similar as *tjaylaking* and *vecekadan* dialect investigated in Chang (2000), the word-final / $\frac{\hbar}{\hbar}$  may become aspirated, as shown in (2.3).

- (2.3) Spelling UR SR Meaning

  kipucemel /ki.pu.tshə.məl/ [ki.pu.tshə.məlh] 'undergo treatment'

  kudral /ku.dal/ [ku.dalh] 'big'
- (2.4) <u>Location</u> <u>Root</u> <u>Derived Form</u>

  sinapayan, ka?aluan, sapulju-1 ?adav 'sun' kina-?adav-an 'weather'

  sapulju-2<sup>29</sup> ?adaw 'sun' kina-?adav-an 'weather'

The glides /w j/ are phonemically distinct from the high vowels /u i/. Like other dialects (Ferrell, 1982:10; Chang, 2006:40), there is morphophomenic alternation between the labiovelar glide /-w/ and the labiodental /-v/ in the final position in North Jinfeng Paiwan. By an evidence given in the morphological process in (2.4), we can firmly state that the direction of sound change is /-w/ to /-v/.<sup>30</sup>

<sup>&</sup>lt;sup>29</sup> Two informants in *sapulju* pronounce *?adav* and *?adaw*, respectively.

<sup>&</sup>lt;sup>30</sup> However, this alternation operates at word-level domain only. The is first proposed by Lee (2012:8), showing that the appending of enclitics is not a factor that causes the alternation.

There are four vowel phonemes in North Jinfeng Paiwan: /a/, an open back unrounded vowel, /ə/, a schwa, /i/, a close front unrounded vowel, and /u/, a close back rounded vowel.

Table 2.3

Vowel inventory of North Jinfeng Paiwan

	Front	Central	Back
High (Open)	/i/		/u/
Mid		/ə/	
Low (Close)	政	治	/a/

The schwa /ə/ may change into the apical [1] when preceded by the voiceless dento-alveolar /t/, /s/, /tsh/, or velar /k/ and not followed by any coda. Sometimes, the high vowel /i/ is slightly apicalized under the same environment. Examples are shown in (2.5).

### 2.1.2 Syllable structure

The canonical syllable structure of North Jinfeng Paiwan is CV(C). There are also V, VV, CVV and CVVC syllables.<sup>31</sup> Consonant clusters are not allowed. Some examples of monosyllabic and disyllabic words are shown in (2.6) and (2.7).

<sup>&</sup>lt;sup>31</sup> VV is a diphthong serving as a nucleus within a syllable.

(2.6)	UR Structure	Example [	<u>Pronunciation</u>	<u>Meaning</u>
	V	a	[a]	'NOM.CMN'
	CV	ka	[ka]	'when.PST'
	CVV	kai	[kaj]	'word; speech'
	CVC	kac	[kats <sup>h</sup> ]	'bite'
	CVVC	vaik	[vajk]	ʻgoʻ

(2.7)	<u>UR Structure</u>	<u>Example</u>	<u>Pronunciation</u>	Meaning
	V.CV	a.lu	[ʔa.lu]	'IRR'
	CV.CV	ga.du	[ga.du]	'mountain'
	CV.VV	cu.ai	[tshu.waj]	'long (time)'
	CV.CVV	pa.dai	[pa.daj]	'upland rice'
	CV.CVC	da.lut	[da.[ut]	'slippery'
	CVC.CV	kin.sa	[kin.sa]	'rice; cook [UVP]'
	CV.CVVC	pa.vaik	[pa.vajk]	'discharge; ejaculate'
	CVV.CVV	cau.cau	[tshaw.tshaw]	'person'
	CVC.CVC	vin.?ac	[vin.?atsh]	'created [UVP]'

A vowel-initial word is pronounced with a preceding glottal stop, like aya [?a.ja] 'say' and u.?a.ljay [?u.?a. $\lambda$ aj] 'not'.

A vowel sequence that does not occur across a morpheme boundary may either form a diphthong or be split up by a syllable boundary. In North Jinfeng Paiwan, there are four diphthongs: *ai* /ai/ [aj], *ia* /ia/ [ja], *au* /au/ [aw] and *ua* /ua/ /wa/.<sup>32</sup> All the vowel sequences in

33

<sup>&</sup>lt;sup>32</sup> Diphthongs exhibit either a falling or a rising sonority. According to Chen's (2006:72) study, Paiwan low vowels are more sonorant than high vowels, and a schwa does not form a diphthong with its adjacent vowel. Thus, /ai/ and /au/ are falling-sonority diphthongs and /ia/ and /ua/ are rising-sonority diphthongs. The issue of diphthongs are not discussed in this thesis.

(2.6) and (2.7) are diphthongs.

When a vowel sequence occurs across a syllable boundary or across a morpheme boundary, a glide or a glottal stop may surface to repair the hiatus. Examples are shown in (2.8). When both the vowels are not high vowels, an intervocalic glottal stop [?] surfaces. When they are different vowels and at least one of them is a high vowel, an intervocalic glide [j] or [w] surfaces.

In (2.8), we can see that a surfaced [?] occurs between e-a sequence in *lja.ve.a.vek* [ʎa.və.ʔa.vək] and a-a sequence in *pu-hana-an* [pu.ha.na-ʔan] [put-flower-NML] 'garden'; [j] is surfaced between the u-i sequence in *cu.kui* [tshu.ku.ji] 'table' and between the i-a sequence in *ka-kedri-an* [ka-kə.di-jan] [genuine-little-genuine] 'child'; there is a phonetic [w] between the i-u sequence in *li.us* [li.wus] 'fence of an item' and between the u-a sequence in *seʔu-an* [sə.ʔu-wan] [smell-NML] 'smell; odor'.

A consonant sequence may appear a syllable boundary, like the m-p sequence in *cempis* [ $ts^h$ əm.pis] 'pick up [AV]'. We label the two consonants in a consonant sequence as  $C_1$ - $C_2$  here for convenience in description.

There are strict restrictions on  $C_1$ , which is the internal coda. Nasals /m/, /n/ and /ŋ/ are most likely to appear as  $C_1$ . The other types are extremely rare and usually appear in

reduplicated monosyllables (but not reduplicated bases), such as the *t-l* cluster in *l*<*em*>*ut.lut* 'roll up', of which the root is *lut.lut*, the *k-c* cluster *cek.cek* 'nail', and the *r-p* cluster in *pur.pur* 'worry; busy', etc.<sup>33</sup>

Anyway, it is probably because of the low acceptability of obstruent coda in modern Formosan languages or typologically<sup>34</sup>, and the acceptability of internal obstruent coda is even lower under the canonical CV syllable structure preferred by the Austronesian languages. In terms of C<sub>2</sub>, there are no such restrictions. Almost all consonants can serve as an internal onset.

The status of an internal nasal coda is sometimes promoted by resyllabification made by schwa deletion that takes place when a schwa is preceded by a nasal onset and no coda is followed. (2.9) shows some examples. After resyllabification, the original nasal onset serves as the coda of its preceding syllable.

<sup>&</sup>lt;sup>33</sup> The case is similar as some other Formosan languages such as Bunun. Blust (2009:207) states that clusters in reduplicated monosyllables and hetero-organic clusters in non-reduplicated bases are allowed in Bunun (but prenasalized obstruents and geminates are prohibited). Huang (2015:52-53) states that Bunun can tolerate many different kinds of non-final codas and she also give Isbukun examples (e.g. tauplas 'radish', maŋabðan 'wide', tumbus 'louse', sudhut 'flood')

VanDam (2004:134) surveyed some languages and proposes that the typological hierarchy of coda permission is nasal >> liquid >> t > k, p > s, z, c, q, f > b, d, g, x, h >> w, f.

#### **2.1.3 Stress**

Like other dialects (Ferrell, 1982:9; Chang, 2006:34; Chen, 2006:77; Yeh, 2011:110; Huang, 2012:11; Chang, 2016:16), the stress of North Jinfeng Paiwan falls mostly on the penultimate syllable of a root or a suffixed form. In some roots, it falls on the final syllable. In (2.10), the stress in the word *vavui* falls on *vu* syllable rather than *va* syllable. This shows that *vu* syllable is the penultimate syllable and proves that the adjacent vowels are not always diphthongs.

(2.10)	Word	<u>Pronunciation</u>	Meaning
	pa.ljing	[ˈpa.ʎiŋ]	'door'
	ci.nu.nan	[ts <sup>h</sup> i.'nu.nan]	'(experienced) hunter'
	va.vu.i	[va.ˈvu.ji]	'wild boar'

### 2.2 Morphology

This section deals with morphological units and their relevant morphological processes.

Roots and stems are defined in Section 2.2.1. Section 2.2.2 discusses affixes and clitics.

Section 2.2.3 investigates reduplication.

#### 2.2.1 Roots and stems

In North Jinfeng Paiwan, roots are monomorphemic elements that express the main lexical concept in a word.<sup>35</sup> There may be one to numerous syllables in a root in North Jinfeng Paiwan, as shown in (2.11). As roots, all the forms in (2.11) cannot be further segmented.

\_

<sup>&</sup>lt;sup>35</sup> Katamba and Stonham (2006:42) define a root as "the irreducible core of a (grammatical) word, with absolutely nothing else attached to it".

(2.11)	Root	Bound/Free	<u>Pronunciation</u>	Meaning
	kac	Bound	[kats <sup>h</sup> ]	'bite'
	la.va	Free	[[a.va]	'flying squirrel'
	sa.ladj	Free	[sa.laj]	'partner'
	cu.vung	Bound	[tsu.vuŋ]	'enough; finish'
	?a.ti.tan	Free	[ʔa.ti.tan]	'common people; villager'

A root may be bound or free. As a bound root, kac 'bite' could not be integrated into natural discourse. Some morphemes must be attached to it to form a readily communicable manifestations like k < em > an 'bite [AV]' or ma-kan '(accidentally) bite'. As a free root, lava 'flying squirrel' could either be uttered by itself or be combined with some other morpheme in discourse. For example, there is ki-lava 'hunt flying squirrels', consisting of lava and the other morpheme ki-1 'obtain'.

Traditionally, a stem is a part of grammatical word that consists of a root, several roots, or one or more roots plus one or more derivational affixes and lacks only the inflections (Dixon, 2010:269). As many Austronesian languages, the distinction of derivational and inflectional is hard to make in North Jinfeng Paiwan (Reid, 1992; De Guzman, 1994). For examples, though voice affixes reflect grammatical relations, they do not appear in all verbs and sometimes they may be attached to noun stems to derive verbs. Therefore, I would avoid using the term 'inflection' in this grammar. In addition, there are no stems consisting of two roots in my database.

Thus, I define stems in North Jinfeng Paiwan as parts of words that consist of a root or a root plus one or more affixes other than functional affixes (voice affixes, valence-adjusting affixes, etc.) (inspired by Dixon, 2010:269). By the definition, all roots are monomorphemic stems, and clitics are not constituting elements of stems. (2.12) shows some stems, including those consist of only a root and those made up of a root and affixes.

(2.12) <u>Stem</u> <u>Components</u>

alap 'take' A root (alap 'take')

ceva 'cliff' A root (ceva 'cliff')

pucemel 'treat; cure' A root (cemel 'herbal drug') and a affix (pu-

'put')

kipucemel 'undergo treatment' A root (cemel 'herbal drug') and two affixes (pu-

'put', ki- 'undergo')

#### 2.2.2 Affixes and clitics

Both affixes and clitics are morphemes that are only attached to other morpheme(s). By definition, they are always bound morphemes (Katamba & Stonham, 2006:44). Sometimes, it is difficult to determine whether some of the bound elements are affixes or clitics. However, there are still two main criteria to determine the prototypical ones.

First, a prototypical affix occupies a fixed position with respect to the stem, whereas a prototypical clitic is not necessarily adjacent to its host. In (2.13), we can see that first = itjen 'NOM.1PL.INCL' appends just after ma-dralengedreng 'go to Lalengleng', however, the second = itjen and its host lemegaw are not closely bounded. Thus, = itjen is a prototypical clitic.

(2.13) nu uri <u>ma-dralengedreng=itjen</u>,

when.IRR IRR go-PR.place=NOM.1PL.INCL

<u>l<em>egaw=anan=itjen</u> ta djalan.

<AV>detour=COS=NOM.1PL.INCL OBL.CMN path

'We (have to) make detour when we go to Lalengleng tribe.' (sinapayan)

Second, a prototypical affix is usually added on specific categories of roots or stems. In contrast, a prototypical clitic may be appended on different categories of roots, stems and

phrases. As is clear in (2.14), pi- 'wash' is a prototypical affix and =anga '[COS]' is a prototypical clitic. Pi- is attached only to morpheme(s) describing human bodies. In (2.14), we can see that =anga appends on various kinds of morpheme(s) such as vaik 'go', neka 'no' and i-vavua 'in the field'.

(2.14) Base Derived form

$$lima$$
 'hand'  $\Rightarrow pi-lima$  'wash hand'

 $kava$  'clothes'  $\Rightarrow *pi-kava^{36}$ 
 $vaik$  'go'  $\Rightarrow vaik=anga$  'already gone'

 $neka$  'no'  $\Rightarrow neka=(a)nga$  'already been not exist'

 $i-vavua$  'in the field'  $\Rightarrow i-vavua=(a)nga$  'already been in the field'

In terms of position, there are four categories of affixes: prefixes, infixes, suffixes and circumfixes, and there are two kinds of clitics: proclitics and enclitics. As shown in (2.15), a prefix is attached before the form of some other morphemes, an infix is inserted inside the form, and a suffix is attached after the form. A circumfix has two parts, one is attached before the form and one is added after it. A detailed information of affixes are presented in Section 2.3.2 and Section 2.3.3.

(2.15) Prefix me- 'become' + kedri 'small'  $\rightarrow me$ -kedri 'become small'

Infix  $\langle em \rangle$  '[AV]' + \*tekel 'drink'  $\rightarrow t\langle em \rangle ekel$  'drink [AV]'

Suffix -an '[NML]' + rakac 'brave; (brave) hunter'  $\rightarrow rakac$ -an 'bravery'

Circumfix ka-an 'genuine' + djalan 'path'  $\rightarrow ka$ -djalan-an 'main road'

Wash clothes' can be expressed as v < en > ate ? ta kava [<AV> wash OBL.CMN clothes].

There are two kinds of clitics: proclitics and enclitics. A proclitic appends before a word, and an enclitic appears after a word. In (2.16), ku= 'GEN.1SG' is a proclitic and =anga 'COS' and =anan 'CON' are the enclitics. A proclitic cannot be prefixed, whereas an enclitic cannot be suffixed, as illustrated in (2.16c) and (2.16d).

- (2.16) a. ku=s < in > i-patjumalj = anga ta sinsi.

  GEN.1SG=UVC-informed=COS OBL.CMN teacher

  'I have already told the teacher (for you).' (sinapayan)
  - b. zian-u=anan!
    dance-IMP.EXCL.AV=CON
    'Keep dancing!' (sinapayan)
  - c. \*s<in>i-ku=patjumalj=anga ta sinsi.

    CV-GEN.1SG=inform=COS OBL.CMN teacher

    'I have already told the teacher (for you).' (sinapayan)
  - d. \*zian=anan-udance=CON-IMP.EXCL.AV'Keep dancing!' (sinapayan)

#### 2.2.3 Reduplication

Reduplication is a special case of affixational morphology, where the affix is phonologically underspecified, receiving its full phonetic expression by copying a segment of a base or the whole base (Broselow, & McCarthy, 1983:25). The copied 'phonological material' is termed reduplicant. The mechanism of reduplication is heavily exploited in many Austronesian languages (Blust, 2013:406; Zeitoun and Wu, 2006).

As previous research (Lu, 2003; Tseng, 2003), there are two main patterns of reduplication in North Jinfeng Paiwan: Ca-reduplication and root reduplication. In Ca-

reduplication, the C is a consonant homorganic to the initial consonant of a stem or a root. In my database, all the Ca- reduplication appear in concert with other elements.

In (2.17), Ca- combines with a nominalizer -an or a UVP suffix -in or -en. With -an, it expresses the meaning of 'place/entity for ...' or 'all are ...'. With -in or -en, it expresses the meaning of 'entity resulted from'. In (2.18), Ca- combines with the prefix ma- to convey reciprocal meaning.

# (2.17) $\underline{\text{Ca}} \sim -an/-in/-en$ pattern

Function of RED	Stem TJ	Derived form
entity.for	pu-paisu 'have much money'	' pa~pu-paisu-an 'wallet'
entity.resulted.from	ki-tulu 'learn'	ka~ki-tulu-in 'course'
entity.resulted.from	vecik 'write'	va~vecik-en 'homework'
all.are	driki~drikitj 'short'	dra~driki~drikitj-an
7		'all are very short'
all.are	kudra~kudral 'big'	ka~kudra~kudral-an
		'all are very big'
	Chengchi V	0, //
ma-Ca~ nattern: reci	inrocal	//

## (2.18) ma-Ca~ pattern: reciprocal

<u>R001</u>	<u>Derved form</u>
?izing 'jostle'	ma-?a-?izing 'jostle with each other'
kelang 'know'	ma-ka~kelang 'know each other'
salu 'believe'	ma-sa~salu 'believe with each other'

Dairyad farm

As for root reduplication, the reduplicant is copied from a segment of a root, which may be CVCV or CV, where CV is a conditioned variant for a monosyllabic root. As shown in (2.19), there are several functions and meanings of CVCV-/CV-. CVCV-/CV- reduplication

may denotes plurality, locations where the base is present in large quantity, diminution (see Section 3.2.1), progressive aspect and habitual aspect. It also occurs frequently in adjectival verbs and spatiotemporal forms.

#### (2.19) CVCV~/CV~ pattern

Function of RED	Root	Derived form
plurality	saladj 'partner'	sala~saladj 'partners'
place.of.large.quantity.of	cemel 'grass'	ceme~cemel 'grassland'
diminution	Patjuvi 'snake'	?a~tjuvi~tjuvi 'worm'
progressive/habitual	kan 'eat'	k <em>a~kan</em>
// All		'eat [PROG]/[HAB]'
adjectival.verb	kedri 'small; few'	kedri~kedri 'small; few'
spatial.noun	?ayav 'front'	?aya-?ayav 'front'

#### 2.3 Lexical categories

Two main lexical categories (parts of speech) in North Jinfeng Paiwan are nouns and verbs. I discuss them by starting with the categories of roots, stems and affixes. Section 2.3.1 describes main categories of roots and stems. Section 2.3.2 explores nominal affixes. Section 2.3.3 treats verbal derivational affixes. Section 2.3.4 discusses the internal structure and feature of the independent complete nouns and verbs. Section 2.3.5 deals with other classes.

#### 2.3.1 Categories of roots and stems

Though it is hard to make a full categorical division of roots and stems, there are apparently two types of roots: roots which form independent complete nouns by themselves and roots which form verb stems. At stem level, there are noun stems and verb stems. All noun stems may be used as independent complete nouns, and most verb stems may not be

used independently.

Roots which form independent complete nouns are the 'primary nouns'.<sup>37</sup> Note that there is no difference between 'noun stems' and 'nouns'. Both of them include primary nouns and derived nouns, but 'noun roots' refer only to primary nouns, which are simultaneously stems and words, as illustrated in (2.20). In this case, there is no need for the level of noun stems. In the discussion of derivation, I would use primary nouns to refer to noun roots and use derived nouns to refer to nouns that consist of primary nouns and other elements.

# (2.20) Noun roots $\rightarrow$ noun stems $\rightarrow$ primary nouns

Noun root	Noun stem	Primary noun
gang 'mitten crab'	gang 'mitten crab'	gang 'mitten crab'
mia '(name) [F]'	mia '(name) [F]'	mia '(name) [F]'
pudai 'corn'	pudai 'corn'	pudai 'corn'
zaljum 'water'	zaljum 'water'	zaljum 'water'

#### (2.21) Verb roots $\rightarrow$ verb stems $\rightarrow$ verbs

Verb root	Verb stem engch	<u>Verb</u>	
kac 'bite'	kac 'bite'	k <em>an 'bite [AV]'</em>	
ve?ac 'create'	ve?ac 'create'	v <in>?ac 'created [UVP]'</in>	
cun 'see'	pa-cun 'see'	pa-cun 'see'	
		p <in>a-cun-an 'saw [UVL]'</in>	
ngua? 'beautiful'	sa-ngua? 'good in taste'	sa-ngua? 'good in taste'	
	ngua-ngua? 'beautiful'	ngua-ngua? 'beautiful'	

<sup>&</sup>lt;sup>37</sup> The term 'primary noun' is adopted from Chen (2006:27).

Roots which form verb stems are bound verb roots. They may either independently form bound verb stems, form verb stems by attaching a verbal affix, or form reduplicated verb stems. In (2.21), *kac* 'bite' and *ve?ac* 'create' form verb stems by themselves; *cun* 'see' occurs with *pa*- 'perform' to form the verb stem *pa-cun* 'see'; attached by *sa*- 'have feature of', *ngua?* 'beautiful' form the verb stem *sa-ngua?* 'good in taste'; *ngua?* 'beautiful' may form the verb stem *ngua-ngua?* 'beautiful' by reduplication as well.

A noun may form a verb stem by affixation of verbal derivational affixes, or form a verb directly by affixation of functional affixes, and a verb stem may form a noun by affixation of nominal affixes. Nominal affixes and verbal derivational affixes are discussed in the subsequent sections.

#### 2.3.2 Nominal affixes

Nominal affixes include nominalizer -an, derivations based on -an, and Ca--en/Ca--in 'entity resulted from ...'.

Table 2.4

Nominal affixes

	Added on a primary noun	Added on a verb stem
-an '(nominalizer)'	Yes	Yes
Caan 'place/entity for'	No	Yes
kaan 'genuine'	Yes	Yes
kakaan 'place/measure for'	Yes	Yes
kinaan 'degree of'	Yes	No
kiljaan 'period-season of'	Yes	Yes
Caen / Cain 'entity resulted from'	No	Yes

As listed in Table 2.4, some of them may attach to a primary noun and a verb stem, whereas some of them attach to only one type of stem.

The nominalizer -an is essential for nominalization in Paiwan and many other Austronesian languages (Blust, 2013:395; Tang, 2002:287). It may turn a verb stem into a noun or make it more noun-like. The suffix -an conveys the place or realization of an event, an action, an attribute, a concept or an entity. It is typically added on either a noun stem or a verb stem. Examples are given in (2.22).

The nominalizer -an may combine with prefixes to form circumfixes like Ca--an 'place/entity for ...', ka--an 'genuine', kaka--an 'place/measure of ...', kina--an 'degree of ...' and kalja--an 'period/season of ...' which have various degree of meaning deviation from -an.

(2.22) Primary noun/verb Stem → Stem-an

Pereng 'lie; sleep' → Pereng-an 'bed'

miling 'time' → miling-an<sup>38</sup> 'historical story'

rakac 'brave' → rakac-an 'bravery'

uma? 'house; home' → uma?-an 'family'

Function of -an

place for an action
realization of a concept
realization of an attribute
realization of an entity

#### (2.23) Verb stem $\rightarrow$ Ca-Stem-an

?ekelj 'run' → ?a-?ekelj-an 'place for running; playground; park'
veli 'buy' → va-veli-an 'market; shop; vendor'
vecik 'write' → va-vecik-an 'place for writing; blackboard; notebook'
kan 'eat' → ka-kan-an 'place for eating; restaurant; dining table'

45

<sup>&</sup>lt;sup>38</sup> Both *miling-an* and *mili~miling-an* indicate 'historical story'. According to informants, *miling-an* usually refers to a historical story that has a more specific characters, and *mili~miling-an* signifies a legend of remost past and the characters can not be confirmed.

The circumfix *Ca--an*, consisting of *Ca-* reduplicant and a nominalizer *-an*, has the sense of 'place/entity for ...'. It is added on a verb stem. Examples are shown in (2.23).

The circumfix ka--an 'genuine' is typically added on a primary noun or a verb stem to derive a noun with an enhanced sense or genuineness. Many of the derived forms are lexicalized and possess a cultural sense, such as ka-vulung-an 'Dawu Mountain' derived from vulung 'elder', meaning the eldest thing, and ka-2atjuvi-an 'hundred-pacer' derived from 2atjuvi 'snake', conveying that the hundred-pacer is the 'genuine snake' of Paiwan. More examples are shown in (2.24).

# (2.24) Noun/verb stem $\rightarrow ka$ -Stem-an

vulung 'elder' → ka-vulung-an 'Dawu Mountain'
Patjuvi 'snake' → ka-Patjuvi-an 'hundred-pacer'
djalan 'path' → ka-djalan-an 'main road'
cemas 'spirit; god' → ka-cemas-an 'the true god'
vua 'field' → ka-vuavu-an 'fields in the mountain'

The circumfix *kaka--an* 'place/measure for ...' is added on a primary noun or a verb stem. Examples are shown in (2.25).

#### (2.25) Noun/verb stem $\rightarrow kaka$ -Stem-an

palisi 'taboo' → kaka-palisi-an 'place for ceremony'
 veli 'buy' → kaka-veli-an 'price'
 ?inuli 'pray' → kaka-?inuli-an 'prayer room'

The circumfix *kina--an* 'degree of ...' denotes the degree or categorization of what the base expresses. It is typically added on a primary noun. Some examples are given in (2.26).

# (2.26) Noun stem $\rightarrow kina$ -Stem-an

?adav 'sun; day' → kina-?adav-an 'weather' cavilj 'year' → kina-cavilj-an 'luck in a year'

The circumfix *kilja--an* 'period-season of ...' denotes the period or season of what a primary noun or a verb stem expresses. Some examples are given in (2.27)

#### (2.27) Noun/verb stem $\rightarrow kalja$ -Stem-an

ki-yuziru 'harvest roselle'  $\rightarrow kalja$ -kiyuziru-an 'roselle harvest period' veve 'sprout'  $\rightarrow kalja$ -veve-an 'spring' zung 'thunder'  $\rightarrow kalja$ -zung-an 'early spring'<sup>39</sup>

By replacing the nominalizer -an with the patient undergoer voice suffix -en / -in, Ca-en / Ca--in has the sense of 'entity resulted from ...'. It is added on a verb stem, as shown in (2.28). Nouns derived from Ca--en / Ca--in is more lexicalized than nouns derived from Ca--an. For example, va-vecik-an derived from vecik 'write' may refer to 'any place for writing', such as blackboard or notebook, however, va-vecik-in refers only to 'homework'.

#### (2.28) Verb stem $\rightarrow$ Ca-Base-en / Ca-Base-in

vecik 'write'  $\rightarrow va$ -vecik-en 'homework; assignment' ki-tulu 'learn'  $\rightarrow ka$ -ki-tulu-in 'course' kesa 'cook'  $\rightarrow ka$ -kasa-in 'food; grain'

<sup>39</sup> the period of beginning of thundering

#### 2.3.3 Verbal derivational affixes

Verbal affixes include verbal derivational affixes, valence-adjusting affixes and voice affixes. This section investigates only the former one. The latter two are discussed in Section 2.4.3 and Section 2.4.4.

Huang (2012) did an elaborate investigation on verbal morphology in *puljetji* (佳興) Paiwan. He proposes that verbs in *puljetji* Paiwan are classified into five types based on the morphological criteria. The classification of verbal affixes is quite a broad topic. In this thesis, I simply classify the verbal derivational affixes on the basis of the stem they attach to.

First, we discuss those that are added only on a bare noun and those that may be added on a noun or a noun phrase. The former include pi-l 'wash' and pu- 'produce; put', and the latter, which are called verbalizing affixes or verbalizers, include kasi- 'be from', masan- 'turn into', paka- 'call; name; regard as', pasa- 'move toward', pi-l 'put in', sa-l 'go to' and san(e)- 'do; manufacture'.

Typically, verbs formed by affixes of the former type bear nominal morphology, whereas those formed by verbalizers do not, except for *pasa*-, which may be nominalized in spatial construction (see Section 4.3.2). For example, *pu-va?u* 'plant millet' may be nominalized into *pu-va?u-an* 'millet field', and *pi-lima* 'wash hands' may occur with the nominal circumfix *Ca--an* 'place/entity for ...', forming the noun *pa-pi-lima-(a)n* 'toilet'. Verbs with verbalizers can not take nominal affixes. For example, *kasi-ka?aluan* 'from Jialan village' can not take the nominalizer *-an* or any other nominal affixes.

Here, we discuss the affixes mentioned above in alphabetical order.

The prefix kasi- 'be from' is added on a spatial noun, a place name, a common noun that denotes location, or a noun phrase to derive a dynamic verb. Bare kasi- without a voice affix is used to express the actor's native place or origin. In companion with the AV infix <em>, k<em>asi- 'come from' is used to express the place of departure or the place on has gone before. Examples are given in (2.29).

# (2.29) Noun $\rightarrow kasi-/k < em > asi-Noun$

tjubar 'Tuban village' → kasi-tjubar '(originated) from Tuban'
 → k<em>asi-tjubar 'come back from Tuban'
 gadu 'mountain' → kasi-gadu '(originated) from mountain'
 → k<em>asi-gadu 'come back from mountain'

The prefix *masan*- 'turn into' is added on a common noun or noun phrase to form a dynamic verb that expresses transformation. Examples are given in (2.30).

#### (2.30) Noun $\rightarrow$ masan-Noun

Patjuvi 'snake' → masan-Patjuvi 'turn into a snake'
 kiki 'mouse' → masan-kiki 'turn into a mouse'
 tja=iku 'our tail' → masan-tja=iku 'turn into our tail'

The prefix pi- $_1$  'wash' is added on a common noun referring to body part to derive a dynamic verb that expresses the meaning of washing the body part denoted by the noun. Examples are shown in (2.31).

#### $(2.31) Noun \rightarrow pi-lNoun$

lima 'hand' → pi-lima 'wash hands'kula 'leg' → pi-kula 'wash legs'

The prefix *pu*- 'produce; put' is added on a common noun to derive a dynamic verb that expresses the meaning of putting the entity denoted by the noun. Examples are shown in (2.32).

### $(2.32) Noun \rightarrow pu-Noun$

```
alju 'sugar' → pu-alju 'put sugar'
hana 'flower' → pu-hana 'put flowers'
dringai 'trap' → pu-dringai 'set traps'
```

The prefix paka- 'call; name; regard as' is added on [case + personal noun] or a common noun to express the calling or subjective judgement of the person or thing. In companion with the patient undergoer voice infix  $\langle in \rangle$ ,  $p \langle in \rangle aka$ - expresses the meaning of 'be called; be named'. Examples are given in (2.33).

# (2.33) Noun $\rightarrow paka-/p < in > aka-Noun$

```
palisi 'taboo' \rightarrow paka-palisi 'regard ... a taboo' \rightarrow paka-ti buka 'PR.M' \rightarrow paka-ti buka 'be named Buka' avai 'Abai (millet dumpling)' \rightarrow p<in>aka-avai 'be named Abai'
```

The prefix *pasa*- 'move toward' is added on a place name, a spatial noun, a common noun that denotes location or a noun phrase to derive a motion dynamic verb. In companion with the patient undergoer voice infix  $\langle in \rangle$ ,  $p \langle in \rangle asa$ - expresses the meaning of 'be brought to (somewhere)'. Examples are given in (2.34).

# $(2.34) \quad \underline{\text{Noun} \rightarrow pasa-/p < in > asa-\text{Noun}}$

navalj 'right side' → pasa-navalj 'go eastwards'
 tja-cacapan '(specific) oven' → pasa-tja-cacapan 'move to the oven'
 biuing 'hospital' → p<in>asa-biuing 'be brought to hostipal'

<sup>&</sup>lt;sup>40</sup> Same as Footnote 27 on p.30.

The prefix pi- $^2$  'put in' is added on a common noun, a spatial noun or a noun phrase to derive a dynamic verb, expressing an action of placement in the location or direction the noun (phrase) describes. In companion with the patient undergoer voice infix <in>, p<in>i-2 expresses the meaning of 'be put'. Examples are given in (2.35).

## $(2.35) \quad \underline{\text{Noun}} \rightarrow pi_{-2}/p < in > i_{-2}\text{Noun}$

pariuk 'wok'  $\rightarrow$  pi-pariuk 'put in the wok'

varung 'mind'  $\rightarrow$  p<in>-varung 'be placed in the mind'

vavav ta cukui 'top of table'  $\rightarrow$  p<in>i-vavav ta cukui 'be put on table'

The prefix sa-1 'go to' is always used with the AV infix  $\langle em \rangle$ . The form  $s\langle em \rangle a-1$  'go to [AV]' is added on a place name, a spatial noun, a common noun that denotes location or a noun phrase to derive a motion dynamic verb. Examples are given in (2.36).

#### (2.36) Noun $\rightarrow s < em > a_{-1}$ Noun

ljavek 'sea'  $\rightarrow$  s<em>a-ljavek 'go to the seaside' sasav 'outside'  $\rightarrow$  s<em>a-sasav 'go outside' kungkuan 'school'  $\rightarrow$  s<em>a-kungkuan 'go to school'

The prefix san(e)- 'do; manufacture' is added on a common noun or a noun phrase to derive a dynamic verb, denoting the process of making something. It usually occur with voice affixes. Examples are given in (2.37).

#### (2.37)Noun $\rightarrow s < em > an(e) - /si - san(e)$ - Noun

djamai 'dish' → s<em>an-djamai 'cook a dish' tjakudrang a i-dralengedreng  $\rightarrow s$ <em>an-tjakudrang a i-dralengedreng 'Lalengleng bridge',41 'build Lalengleng bridge' uma? 'house' → si-san-uma? 'build a house by s.t.'

Next, we discuss the verbal derivational affixes that may be added only on a verb root/stem, including mi- 'process event; body action', pa- 'perform' and 2a- 'fulfill'. They are quite unproductive affixes that are added only on specific verb roots/stems. They do not change the meaning of the verb root/stem. At this stage, their meaning of some of them are unclear.

The prefix mi- 'process event; body action' is added on a verbal bound root that expresses a process or a body action to derive a dynamic or a stative verb, as shown in (2.38). The verbs derived by mi- do not take any voice affixes.

#### Bound.verb.root → *mi*-bound.verb.root (2.38)

matuk 'boil' mi-matuk 'boil' djerenav 'melt' mi-djerenav 'melt' tjezu 'belch' mi-tjezu 'belch' → mi-gacali 'stand up' gacalj 'stand up'

The prefixes pa-2 'perform' and 2a- 'fulfill' are added on a bound verb root. The category of the verb root they attach to is unclear. Examples are shown in (2.39).

<sup>&</sup>lt;sup>41</sup> Dralengedreng (拉冷冷) is a small settlement located opposite ka?aluan (嘉蘭村). Between them is the Taimali River. In the previous time, Jialan Bridge connected dralengedreng and ka?aluan. In 2009, Typhoon Morakot (莫拉克颱風) destroyed the bridge, having caused much inconvenience to the inhabitant people of dralengedreng. In 2013, the new linkage bridge, renamed Lalengleng Bridge (拉冷冷大橋), has been built.

## (2.39) Bound.verb.root $\rightarrow pa-2/2a$ -bound.verb.root

cun 'see' → pa-cun 'see'

vai 'give' → pa-vai 'give'

*vanav* 'take a shower' → *pa-vanav* 'take a shower'

ngelic 'burnt' → ?a-nglic 'scorch'

cuvung 'enough' → ?a-cuvung 'finish'

Finally, we discuss the verbal derivational affixes that may be added on a noun or a verb stem, including ki- 'obtain; get', sa-2 'have feature of' and su- 'remove'.

#### (2.40) Noun/verb.stem $\rightarrow ki$ -noun/verb.stem

vasa 'taro' → ki-vasa 'harvest/collect taro'

paisu 'money' → ki-paisu 'earn money'

kasiv 'tree' → ki-kasiv 'chop down trees'

*pu-cemel* 'treat; put herbal drugs' → *ki-pu-cemel* 'undergo treatment'

The prefix *ki*- 'obtain; get' has quite a lot of functions. Originally, it is added on a common noun to derive a dynamic verb that expresses the meaning of 'obtaining, collecting or harvesting something'. By grammaticalization, the prefix *ki*- may be added on a verb. It turns to have the meanings of 'getting V-ed' or carry reflexive functions (Zeitoun and Teng, 2009). Here, we show the examples derived from *ki*- which takes the meaning of getting N or getting V-ed in (2.40). Its reflexive function is discussed in Section 2.4.4.

The prefix *sa-2* 'have feature of' is added on a common noun or an adjectival verb stem to derive a stative verb, expressing the meaning of having the feature of what they express, as shown in (2.41).

## (2.41) Noun/verb.stem $\rightarrow sa-2$ noun/verb.stem

u?aljay 'man' → sa-u?aljay 'handsome'
 kuya 'bad; doom' → sa-kuya 'unpalatable; not delicious'
 miling 'ancient' → sa-miling 'classical and beautiful'
 lum 'ripe fruit' → sa-lum 'good in smells; fragrant'

The prefix *su*- 'remove' is added on a common noun or a bound verb stem to derive a dynamic verb, which expresses the removal or reversion of an entity or action described by the base. It usually occurs with a voice affix. Examples are shown in (2.42).

## (2.42) Noun/verb.stem $\rightarrow s < em > u$ -noun/verb.stem

?eljev 'close door' $\rightarrow$ s < em > u - ?eljev 'open door'kava 'clothes' $\rightarrow$ s < em > u - kava 'take off the clothes'

#### 2.3.4 Nouns and verbs

Structurally, nouns include primary nouns and derived nouns, as shown in Table 2.5. Semantically, primary nouns have a relatively time-stable meaning (Givón, 1984:51; Murphy, 2010:141), whereas derived nouns do not. For example, a derived noun containing *Ca--an* 'place/entity for' does not have a fixed meaning. The place or entity to which such derived form refers is likely to change over context or time. For example, *?a-?ekelj-an* 'run' may refer to 'any place for running', such as playgrounds, parks or villages.

Table 2.5

Internal structure of nouns

	Internal structure	Example	
D .	N	vatu 'dog'	
Primary noun	Noun root	buka '(personal name)'	
	Daine and a service of a fifting	uma?-an 'family'	
Derived noun	<u>Primary noun</u> + nominal affix	ka- <u>calisi</u> -an 'indigenous people'	
Derived noun	V. 1	pu-djulis-an 'red quinoa field'	
	<u>Verb stem</u> + nominal affix	kaka- <u>veli</u> -an 'price'	

The nouns *vatu* 'dog' and *buka* '(male name)' are primary nouns, and *uma?-an* 'family', *ka-calisi-an* 'indigenous people', *ka-kedri-an* 'little child' and *pu-djulis-an* 'red quinoa field' are combinations of a primary noun and a nominal affix, or of a verb stem and a nominal affix. For the noun *pu-djulis-an*, *pu-djulis* 'plant red quinoa' itself is a free verbal stem consisting of a primary noun *djulis* and a verbal affix *pu-* 'produce', and *-an* '(nominalizer)' is a nominal affix that is added on *pu-djulis* to form a noun. For the noun *kaka-veli-an*, *veli* 'buy' is a bound verbal stem, and *kaka--an* 'place/measure for' a nominal affix that is added on *veli* to form a noun. For the derived noun *ka-calisi-an* 'slope', *calisi* 'slope' is a primary noun, and *ka--an* 'genuine' is a nominal affix that is added on *calisi* to form a new noun.

Nouns may be classified into six categories, common nouns, personal names, kinship terms, place names, spatial nouns and temporal nouns, which are discussed in Section 3.1.

Structurally, as shown in Table 2.6, a verb is either (i) a verb stem, (ii) a verb stem plus functional affixes, or (iii) a noun plus verbal affixes, functional affixes or both. The noun may be a primary noun or a derived noun, and the functional affixes mainly include voice affixes and valence-adjusting affixes. Based on more detailed morphosyntactic features, verbs may be classified into several categories, which are discussed in Section 3.4.

Table 2.6

Internal structure of verbs

	Internal structure	Example
	Verb stem	mi-natuk 'boil'
	vero stem	?udji~?udjilj 'red'
		t <in>alem-an 'planted [UVL]'</in>
V a ula	<u>Verb stem</u> + functional affix(es)	ki-vatjel 'hit oneself'
Verb		pa-kan-an 'feed [UVL]'
	Nove I work of Services / South of	pi-pariuk 'put in the wok'
	Noun + verbal affix(es) / functional affix(es)	<u>c</u> <em><u>avu</u> 'pack [AV]'</em>
		ki-pu-cemel 'undergo treatment'

Both the verbs *mi-natuk* 'boil' and *?udji-?udjilj* 'red' is a verb stem. *mi-natuk* consists of a verb root *natuk* 'boil' and a verbal prefix *mi-* 'process event; body action', and *?udji-?udjilj* is a reduplicated form of the verbal root *?udjilj* 'red'. The verb *t<in>alem-an* 'planted [UVL]' consist of the verb stem *talem* 'plant' and two voice affixes *<in>* '[UVP]' and *-an* '[UVL]'. The verb *ki-vatjel* 'hit oneself' consist of a verbal stem *vatjel* 'hit' and a reflexive prefix *ki-*. The elements of *pa-kan-an* are a causative prefix *pa-*, a verb stem *kan* 'eat' and a locative undergoer voice suffix *-an*. The verb *pi-pariuk* consists of a primary noun *pariuk* 'wok' and a verbal prefix *pi-* 'put in'. The verb *c<em>avu* is constituted by a primary noun *cavu* 'pack' and an actor voice infix *<em>*. The elements of *ki-pu-cemel* 'undergo treatment' are a passive prefix *ki-*, a verbal prefix *pu-* 'put' and a primary noun *cemel* 'herbal drug'.

Verbs may be classified into several categories, dynamic verbs, stative verbs, adjectival verbs and auxiliary verbs, which are discussed in Section 3.4.

#### 2.3.5 Other word classes

In North Jinfeng Paiwan, nouns and verbs are open word classes to which new words are commonly added through borrowing or innovation. On the contrary, other classes are closed word classes which are more rarely expanded by new words (Kroeger, 2005:38). Nine closed classes are attested: personal pronouns, case markers, numerals, demonstratives, intensifier *aravac*, interrogative words, conjunctions, ligatures *a*, interjections and exclamations. To avoid repetition, some of them are only briefly mentioned here.

Personal pronouns are word classes that fill the position of a personal noun or a personal noun phrase in a clause. They are divided treated in the framework of deixis in this thesis and are discussed in Section Chapter 4:.

Case markers are word classes that marks the relationship of a noun to a predicate (which may be a verb or a noun) at the clausal level or of the noun to another noun at phrasal level (inspired by Blake, 2001). They are discussed in Section 2.4.2.

Numerals are word classes denoting numbers. The number system is base ten in North Jinfeng Paiwan. The basic cardinal numerals and bases are listed in Table 2.7. A detailed information about numerals is discussed in Section 3.3.

Table 2.7

Table 2.7

Basic numerals

Number	Cardinal numeral	Number	Cardinal numeral	Number	Cardinal numeral
1	ita	6	unem	100	idai
2	drusa	7	pitju	1000	kuzuljan
3	tjelu	8	?alu	10000	kudrav
4	sepatj	9	siva	100000	ta-pulu? a kudrav
5	lima	10	ta-pulu?		

Demonstratives "point to or demonstrate" the object they refer to (Payne, 1997:103).

They express the distance of the referent from speakers and addresses and visibility. They are discussed in Section 4.2.

The intensifier *aravac* is a post-verbal modifier. It may modify adjectival verbs, most stative verbs and some dynamic verbs.

Interrogatives are word classes denoting questions, such as *ima* 'who', *inu* 'where', *nema* 'what', *ngida* 'when', *pida* 'how many', etc. Due to limitations of my data on interrogative words, they are not treated particularly in this thesis.

## (2.43) a. A conjunction that links words

a icu a drilung p<in>aka- u?aljay

NOM.CMN PROX LIG ceramic.pot <UVP>call- man

sa?a vavayan.

and woman

#### b. A conjunction that links phrases

k<em>asi-gadu ti uden <u>sana</u>

<AV>come.from-mountain NOM.PRL.SG PR.M and.then

s < em > a-ljavek.

<AV>go.to-sea

'Uden went (down) from the mountain and then went to seaside.' (sinapayan)

#### c. A conjunction that links clauses

ka-pi-tja-i-vililj vaik ma-umaq when.PST-pi-SEPC-LOC-next LIG go.to-hometown go ma-cakar timadju, lja?ua vaik NOM.3SG however LIG go.to-teenager.rally.center go

<sup>&#</sup>x27;This pot is called Pot of Men and Women.' (sinapayan)

ini a ma-tjumaq timadju.not LIG go.to-house NOM.3SG

'Puljaljuyan then went back to the village, <u>but</u> he went to the teenager rally center rather than back to home.' (sinapayan)

Conjunctions express a relation between two statements. They may link words, phrases or clauses, as is clear in (2.43). So far, nine conjunctions are attested. They are sa ?a 'and', ata 'and', manu 'or', sa 'then', sa-na 'and then; after that', lja ?ua 'however', ayatua 'because', 2a / ka 'when [PST]' and nu 'when [IRR]'.

The ligature a is a construction marker that links relational elements such as two nouns, two verbs, adnominals, an adnominal and a noun, or a basic numeral and a numeral base. Examples are shown in (2.44). Except for auxiliary verb + verb, the ligature is obligatory between serial verbs.

#### (2.44) a. <u>Ligature a between nouns</u>

cekelj <u>a</u> u?aljay

spouse LIG man

'husband' (sinapayan)

#### b. <u>Ligature *a* between verbs</u>

su-?eljev-an paljing nimadju а sa remove-open-UVL NOM.CMN door GEN.3SG then lj<em>ulju buru. vaik a lje-sasav a ta LIG toward-outside <AV>pick.up LIG OBL.CMN ball go 'He opened the door, went outside, and picked up the ball.' (sinapayan)

-

<sup>&</sup>lt;sup>42</sup> The term ligature was adopted from Li (1997).

## c. <u>Ligature *a* between adnominals and between a adnominal and a noun</u>

a icu <u>a</u> ?e~cenge~cengel <u>a</u> kaljaljung

NOM.CMN PROX LIG black~RED~black LIG butterfly

'this black butterfly' (sinapayan)

#### d. Ligature *a* between a basic numeral and a numeral base

tjelu <u>a</u> idai

three LIG hundred

'three hundred' (sinapayan)

#### 2.4 Argument structure

This section deals with argument structure. Section 2.4.1 discusses predicates, core and peripheral arguments, the word order and semantic roles. The alignment of arguments is concerned with case and voice, which are explored in Section 2.4.2 and Section 2.4.3, respectively. Section 2.4.4 presents some functional affixes that change the valency of the verbs.

#### 2.4.1 Predicates and arguments

Like most Formosan languages, North Jinfeng Paiwan is a predicate-initial language, where the predicate may be a noun or a verb, as shown in (2.45). In (2.45a), the noun *sinsi* 'teacher' serves as a predicate, and in (2.45b), the verb  $k < em > a \sim kan$  'eat [PROG]' is a predicate.

#### (2.45) a. Noun as a predicate

<u>sinsi</u> ti vikung.

teacher NOM.PRL.SG PR.M

'Vikung is a teacher.' (sinapayan)

#### b. <u>Verb as a predicate</u>

<u>k<em>a~kan</u> ta kaiven ti kama. <AV>PROG~eat OBL.CMN dinner NOM.PRL.SG father 'Father is having dinner.' (sinapayan)

Arguments may be core or peripheral. Core arguments refer to arguments that are obligatorily selected or implied by the predicate and may be inferred from the meaning or syntactic properties of predicate. Peripheral arguments are optional arguments. In (2.46a), the predicate is k < em > a - kan 'is eating', the core arguments are the noun phrases a icu a drail 'this monkey' and a veljevelj 'banana', and the peripheral arguments are the noun phrase a is the nominal predicate, and a za vavayan 'that woman' is its core argument.

# (2.46) a. [a icu a drail]<sub>CorArg</sub> [kemakan]<sub>Pred</sub> [ta veljevelj]<sub>CorArg</sub> [ivavav ta kasiv]<sub>PerArg</sub>

a icu a drail k<em>a-kan ta

NOM.CMN PROX LIG monkey <AV>PROG-eat OBL.CMN

veljevelj i-vavav ta kasiv.

banana LOC-top OBL.CMN tree

#### b. [a za vavayan]<sub>CorArg</sub> [ti maukaikai]<sub>Pred</sub>

a za vavayan ti maukaikai. NOM.CMN that woman NOM.PRL.SG PR.F

<sup>&#</sup>x27;The monkey is eating the banana in the tree.' (ka?aluan)

<sup>&#</sup>x27;The woman is called Maukaikai.' (narrative1)

Core arguments include subjects and direct objects. The word order of verb, subject, and object is predominantly VOS, as shown in (2.47a). Similar as the findings in Chang (2016:37), in North Jinfeng Paiwan, if the subject is emphasized or is the new information in the context, there may be VSO, as in (2.47b). In addition, the subject or the object may be topicalized by being fronted as the initial, with a punctuation between the topicalized subject and the verb, as in (2.47c) and (2.47d).

In North Jinfeng Paiwan, prototypical semantic roles, or macro-roles, include actors and undergoers, where undergoers subsume mainly the following roles: patients, locations, instruments and beneficiaries.

## (2.47) a. VOS: [alapen] Verb [ta veljevelj] Object [ti sangkilje] Subject

alap-en ta veljevelj ti sangkilje.
take-UVP OBL.CMN banana NOM.PRL.SG PR.F
'Sangkilje took the banana.' (sinapayan)

b. VSO: [alapen] Verb [ti sangkilje] Subject [ta veljevelj] Object

alap-en ti sangkilje ta veljevelj.

take-UVP NOM.PRL.SG PR.F OBL.CMN banana

'Sangkilje took the banana.' (emphasize Sangkilje) (sinapayan)

c. SVO: [ti sangkilje]Subject [alapen]Verb [ta veljevelj]Object

ti sangkilje, alap-en ta veljevelj.

NOM.PRL.SG PR.F took-UVP OBL.CMN banana

'(It's) Sangkilje, (who) took the banana.' (sinapayan)

d. OVS: [ta veljevelj]Object [alapen]Verb [ti sangkilje]Subject

a za veljevelj, alap-en ti sangkilje.

NOM.CMN that banana took-UVP NOM.PRL.SG PR.F

'That banana, Sangkilje took it.' (sinapayan)

#### 2.4.2 Case System

In my thesis, I follow the framework of case system discussed in Chuang (2002) and Chang (2000, 2006, 2016) and distinguish the three cases, nominative, genitive and oblique. Each of them are further subdivided into two types: those marking common nouns and those marking personal nouns. Since case markers for personal names and kinship terms follow same pattern, I call them case markers for 'personal nouns' instead of 'proper nouns'.

Table 2.8

Case markers

	// \	Nominative	Genitive	Oblique
Common noun		a / nu	n(u)a	t(u)a / tu
Personal noun	Singular	ti	ni	tjai
Personal noun	Plural	ti-a	ni-a	tjay-a

For each personal case, there are two sets of case markers: singular and plural. A plural case marker is created by adding the plural suffix -a '(plural)' to the singular case marker (Zeitoun, 2009). The genitive common marker na and nua are in free variation; the oblique common marker ta and tua are in free variation as well. In North Jinfeng Paiwan, na and ta occur more frequently than their variants.

#### (2.48) <u>Case markers for common nouns at clausal level</u>

s<em>e?u-se?u nemanga. a. vatu ta <AV>PROG-smell NOM.CMN dog OBL.CMN thing 'A dog is smelling something.' (sinapayan) b. pakitaga-in lja?edi?edi ti vikung <u>na</u> remind-UVP NOM.PRL.SG PR.M **GEN.CMN** neighbor

maya ?iljengal nu-?ezemezemetj

do.not make.much.noise IRR-night

'Vikung was warned by the neighbor (that he should) not make so much noise at night.' (sinapayan)

c. neka=(a)nga  $\underline{nu}$  zaljum.

not.exist=COS nu water

'It has already no water.' (narrative1)

d. tima  $na=k < em > a-palak \underline{tu}$  sa tiribi?

who.NOM PFV=<AV>ka-break OBL.CMN PROX.VIS television

'Who broke this television?' (sinapayan)

According to Tang et al. (1998), case markers for common nouns are further divided into specific and non-specific ones. Tang et al. (1998) argues that nu and tu are partitive case markers receiving an indefinite non-specific reading. However, in my database, they may refer to specific entities, as shown in (2.48c) and (2.48d). Thus, the distinction between a and a0 and a1 and a2 and a3 and a4 are not clear at present.

## (2.49) <u>Case markers for singular personal nouns at clausal level</u>

a. ki-ki-rivu-an <u>ti</u> mia <u>tjai</u> kai.

PASS-obtain-quarrel-UVL NOM.PRL.SG PR.F OBL.PRL.SG PR.F

'Mia was scolded by Kai.' (sinapayan)

b. alap-en a ?adupu <u>ni</u> kai.

take-PV NOM.CMN book GEN.PRL.SG PR.F

'The book is taken away by Kai.' (sinapayan)

## (2.50) <u>Case markers for plural personal nouns at clausal level</u>

vaik=anga <u>tia</u> maukaikai.

go=COS NOM.PRL.PL PR.F

'Maukaikai (and her friends) have gone'

## (2.51) <u>Case markers at phrasal level</u>

a. a za ngadan <u>na</u> ?inaljan

NOM.CMN that name GEN.CMN village

'the name of their village' (ka?aluan)

b. nasa ru-kuya a varung <u>ni</u>

seem.to.be HAB-bad NOM.CMN mood GEN.PRL.SG

sangkilje ta-sauni.

PR.F PST-moment

'It seems that Sangkilje is in a bad mood today.' (sinapayan)

#### 2.4.3 Voice System

Voices are grammatical devices reflecting the relationship between semantic roles and grammatical relations in clauses (Payne, 1997:169). As most Philippine-type languages, four types of voices are attested in North Jinfeng Paiwan: actor voice (AV), patient undergoer voice (UVP), locative undergoer voice (UVL) and circumstantial undergoer voice (UVC) (Ross, 2002; Zeitoun, 2005). Table 2.9 shows the voice affixes in indicative mood.

As indicated by the names, the syntactic subject that marked nominative in an AV clause is an actor, and that in a UVP clause is a patient undergoer, and so forth. However, these terms stand only for the macro-role of the subject it selects.

Voice and mood are intricately interacting with each other, which are discussed in Section 3.5.

Table 2.9

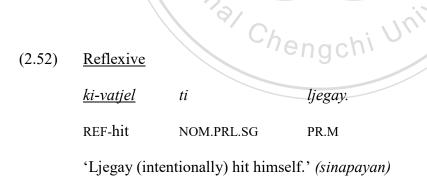
Voice affixes in indicative mood

	AV	UVP	UVL	UVC
Affixes —	< <i>em&gt;</i>	<in></in>	-an	si-
	ma-	-in		
	<en></en>	-en		
	<i>m</i> -	in-		

#### 2.4.4 Valence-adjusting mechanism

Valence is defined as the number of core arguments required by a predicate. Valence may be changed by the two ways: increasing or decreasing. Three prefixes are discussed in the section: *ki*- '(reflexive)', *maCa*- '(reciprocal)' and *pa*-1 '(causative)'. The former two reduce the valence, and the latter increases the valence.

As mentioned in Section 2.3.3, by grammaticalization, the prefix ki- conveys reflexive meaning. A verb with ki- selects single argument that actually serves simultaneously as an agent and a patient (the agent and the patient are coreferential), as shown in (2.52).



The prefix *maCa*-, in which C is a consonant homorganic to the initial consonant of the stem, is added on a dynamic verb to convey reciprocal meaning. In reciprocal clause, "two participants equally act upon each other" (Payne, 1997:200-201). Sometimes, there may be more than two participants. An example is shown in (2.53).

## (2.53) Reciprocal

ma?a-?izing a taruyungan a caucau.

RECP-push/jostle NOM.CMN group LIG people

'A group of people jostle with each other' (sinapayan)

The prefix *pa-1* 'causative' that introduces an extra agent which is called the causer. The agent of the caused event, that is, the original agent, is called a causee. In AV clauses, the causer is marked nominative and the causee is demoted to oblique. The case marker of *sizi* in (2.54a) is nominative. In (2.54b), *a icu a kakedrian* 'these children' is the causer. It is the agent of predicate and is marked nominative. The causee *sizi* is marked by oblique case marker. In UVP clauses, the causer is marked genitive, as *suliap* 'red sky' in (2.55), and the causes is marked nominative, as *ljave?* 'sea'.

#### (2.54) AV clause

#### a. Divalent k < em > a - kan

k<em>a~kan ta cemel a sizi.
<AV>PROG~eat OBL.CMN grass NOM.CMN goat
'The goats are eating the grass.' (sinapayan)

#### b. Trivalent Causative *pa-ka-kan*

pa-ka-kan kakedrian icu ta CAUS-PROG~eat NOM.CMN **PROX** LIG child OBL.CMN cemel sizi. ta grass OBL.CMN goat

'These children are feeding goats with the grass.' (sinapayan)

## (2.55) <u>UVP clause</u>

ma-ledep a p < in > a-pe-Pudjerelj = anga

STAT-sunset NOM.CMN sun <UVP>CAUS-become-reddish=COS

na suliap a ljave?.

GEN.CMN red.sky NOM.CMN sea

<sup>&#</sup>x27;The sun goes down. The pink clouds, make the sea red.' (sinapayan)



# **Chapter 3: Noun and Verb Phrases**

This chapter deals with the classifications of nouns and verbs, complements in noun and verb phrases, and the interaction of heads and complements in noun and verb phrase. Section 3.1 explores the construction of noun and verb phrases. Section 3.2 discusses the classification of nouns on the basis of their morphosyntactic features. Section 3.3 treats the numerals and sortal affixes. Section 3.4 presents the classification of verbs according to their morphosyntactic features. Section 3.5 discusses the interaction of voice, mood, and aspect.

#### 3.1 Constituent order

The nominal construction of North Jinfeng Paiwan exhibits head-final order. Except for the free form of the possessor, all adnominal dependents are in the left of the head noun. The ligature a usually occurs between most adnominals, expect for [case marker + any adnominal]. The ligature a may be ellipsed when there is an adjacent a. A prototypical word order of a head noun and some adnominal dependents is typically like (3.1). The case marker is usually obligatory. Other adnominal dependents, which are parenthesized, are optional.

## (3.1) <u>Prototypical constituent order of noun phrase</u>

[CA (icu / z(u)a) (NUM) (ADJV) (genitive.pronominal.clitic=) <a href="head.noun">head.noun</a>]<sub>NP</sub> or [CA (icu / z(u)a) (NUM) (ADJV) <a href="head.noun">head.noun</a> (genitive.free.pronoun)]<sub>NP</sub> or [CA (icu / z(u)a) (NUM) (ADJV) <a href="head.noun">head.noun</a> (GEN) (noun)]<sub>NP</sub>

Examples of noun phrases are given in (3.2). The head nouns are underlined. (3.2a) is a simple noun phrase, which consists of only a case marker and a head noun. (3.2b-d) are complex structures with demonstratives, numerals and adjectival verbs in further. (3.2e-g) are

noun phrases with genitive elements, which may be genitive bound pronouns, genitive free pronouns and nouns.

We can see that in (3.2d), the near full-fledged example, the elements from left to right are a case marker a 'common nominative case', a demonstrative za 'that' a numeral sepatj 'four', an adjectival verb kudral 'giant' and a noun kasiv 'tree'. The elements a, za, sepatj and kudral are adnominal dependents, whereas the right-most element kasiv is the head. The ligature a occurs between za and sepatj, between sepatj and kudral, and between kudral and kasiv, but not between the case marker a and the demonstrative za.

The genitive bound pronoun, which is a proclitic, occurs before the head noun, as shown in (3.2e). The genitive free pronoun occurs after the head noun, as (3.2f). The head noun *djalan* in (3.2g) is a composition of its following noun *?inaljan* 'village'. There is no ligature between the genitive element and the head noun.

#### (3.2) Noun phrase

a. Case + head noun

a <u>kasiv</u>

NOM.CMN tree

'tree' (sinapayan, sapulju)

#### b. Case + demonstrative + head noun

a icu a tjelu a <u>kasiv</u>

NOM.CMN PROX LIG three LIG tree

'these three trees' (sinapayan)

#### c. Case + numeral + adjectival verb + head noun

a sepatj a kudral a kasiv

NOM.CMN four LIG giant LIG tree

'four giant trees' (sinapayan)

- d. <u>Case + demonstrative + numeral + adjectival verb + head noun</u>
  - a za a pitju a kudral a <u>kasiv</u>

NOM.CMN that LIG seven LIG big LIG tree

'those seven giant trees' (sinapayan)

- e. Case + genitive pronominal clitic + head.noun
  - $a su = \underline{ngadan}$

NOM.CMN GEN.2SG=name

'your name' (ka?aluan)

- f. Case + head.noun + genitive free pronoun
  - a <u>ngadan</u> nimadju

NOM.CMN name GEN.2SG

'your name' (ka?aluan)

g. <u>Case + demonstrative + head noun + genitive case + possessor</u>

a icu a <u>djalan</u> na ?inaljan

NOM.CMN this LIG path GEN.CMN village

'this street of village' (sinapayan)

A verb phrase consists of a head verb and its modifying elements, including aspectual markers, imperative markers and the intensifier *aravac*. A prototypical order is like (3.3).

## (3.3) <u>Prototypical constituent order of verb phrase</u>

 $[(ASP=) \underline{head.verb} (-IMP) (=ASP) (aravac)]_{VP}$ 

Examples of verb phrases are given in (3.4). The head verbs are underlined. The simplest verb phrase is a bare verb, as k < em > an 'eat' shown in (3.4a). (3.4b-e) are verb phrases with modifying elements. In (3.4d), we can see that the aspectual marker = anan

'(continuative)' occurs after the imperative marker -u 'imperative [EXCL.AV]'. The intensifier aravac is post-verbal, as shown in (3.4e).

## (3.4) <u>Verb phrases</u>

a. Head verb

 $\underline{k < em > an}$ 

AV=eat

'eat' (sinapayan, sapulju)

b. Aspectual clitic + head verb

na=<u>s<em>a-kungkuan</u>

PFV=<AV>go.to-school

'went to school' (sinapayan)

c. Head verb + imperative marker

<u>pa?ulid</u>-u

indeed-IMP.EXCL.AV

'be honest!' (sinapayan)

d. <u>Head verb + imperative marker + aspectual marker</u>

*zian*-u=anan

dance-IMP.EXCL.AV=CON

'continue dancing' (sinapayan)

e. <u>Head verb + intensifier</u>

tjengelay aravac

love very

'really love (to)' (sapulju)

#### 3.2 Nouns

As presented in Section 2.3.4, nouns are structurally divided into two types: primary nouns and derived nouns.

Table 3.1

Classification of nouns according to morphosyntactic features<sup>43</sup>

Common	Personal	Kinship	Place	Spatial	Temporal
noun	name	term	name	noun	nouns
+(A)	+ (B)	+ (A/B)	_	_	_
+	(-)	* \	\-	_	_
+	-	uncertain <sup>45</sup>	7/	_	_
/T.E	=/	uncertain	- \\	_	_
L.	X)	"			+
$\bigcup \bigcup$				+	т
(1)		5/1			(1)
(+)		10		+	(+)
heng	chi V	(r, //			+
2119			_	_	+
					(1)
_	_	_	_	+	(+)
	noun + (A) +	noun name + (A) + (B) + (-) + -	noun name term  + (A) + (B) + (A/B)  + (-) +  + uncertain <sup>45</sup> + - uncertain	noun name term name  + (A) + (B) + (A/B) -  + (-) + -  + uncertain <sup>45</sup> +  + - uncertain -	noun name term name noun  + (A) + (B) + (A/B)  + (-) +  + - uncertain <sup>45</sup> + - + - + + - +

-

<sup>43 +</sup> yes; - no; (+) for specific members; (-) in specific context

<sup>&</sup>lt;sup>44</sup> Case pattern A: a/nu/n(u)a/t(u)a/tu; case pattern B: ti/ni/tjai in singular and tia/nia/tjaya in plural. Place names, spatial nouns and temporal nouns do not occur with case markers.

<sup>&</sup>lt;sup>45</sup> The structures [numeral + kinship term] and [adjectival + kinship term] are not attested in my database. Logically, numerals may occur with some kinship terms cross-linguistically, probably with some limitations (e.g. two cousins, ??two fathers). Generally, adjectives may occur with kinship terms (e.g. beautiful mother, tall brother).

Functionally, nouns may be classified into several categories. Chang (2006) classifies nouns into four classes, common nouns, personal nouns, kinship terms and locative nouns, by both of their semantic and morphosyntactic features. This thesis classifies nouns mainly on the basis of morphosyntactic criteria and shows that there are the six main categories: common nouns, personal names, kinship terms, place names, spatial nouns and temporal nouns. Table 3.1 shows the criteria, the description of which are included in the subsequent subsections.

#### 3.2.1 Common nouns

Common nouns refer to generic categories. They generally act as subjects and objects of clauses, as *vatu* 'dog' and *nemanga* 'thing'shown in (3.5a). They may occur with demonstratives, numerals, possessors and adjectival verbs, as *lubuk* 'bag' and *tjalupung* 'hat' shown in (3.5b) and (3.5c).

- (3.5) a.  $s < em > e?u \sim se?u$  a <u>vatu</u> ta <u>nemanga</u>. <AV>PROG $\sim$ smell NOM.CMN dog OBL.CMN thing 'A dog is smelling something.' (sinapayan)
  - b. a za (a) tjelu a ?u~dji~djilj a <u>lubuk</u>

    NOM.CMN that (LIG) three LIG red~RED~red LIG bag

    'those three red bags' (ka?aluan)
  - c.  $ku = \underline{tjalupung}$ GEN.1SG=hat

    'my hat' (ka?aluan)

Common nouns that denote locations may be marked by the stative location marker i-, as kadjalanan 'main road' shown in (3.6).

(3.6) <u>i-kadjalanan</u>=anan ti lavi?

LOC-main.road=CON NOM.PRL.SG PR.M

'Is Lavi still on the road?' (sinapayan)

Common nouns may take CVCV- reduplication that denotes plurality, locations where the noun is present in large quantity, or diminution. The expression of plurality by reduplication is usually on human beings, as examples given in (3.7). However, there is actually no overt distinction between the base and the reduplicated form. The base itself may express single or plural individuals. (3.8) gives examples of reduplication denoting locations where there is large quantity of base. (3.9) gives examples of reduplication denoting diminution.

- (3.7) Common noun  $\rightarrow$  CVCV-reduplicated form ta?aljan 'villager'  $\rightarrow$   $ta\sim?alja\sim?aljan$  'villagers' vavayan 'woman'  $\rightarrow$   $va\sim vaya\sim vayan$  'women' u?aljay 'man'  $\rightarrow$   $u\sim?alja\sim?aljay$  'men'
- (3.8) Common noun → CVCV-reduplicated form

  cemel 'grass; underbrush' → ceme~cemel 'hunting place; grassland'

  kasiv 'tree' → kasi~kasiv 'forest'
- (3.9) Common noun → CVCV-reduplicated form

  lubuk 'bag' → lubu~lubuk 'pocket; pack'

  vatu 'dog' → vatu~vatu 'toy dog'

  ?atjuvi 'snake' → ?a~tjuvi~tjuvi 'worm'

  kakedrian 'child' → ka-kedri~kedri-an 'little child'

#### 3.2.2 Personal names

Personal names generally act as subjects and objects of clauses, as mia '(female name)' and kai '(female name)' shown in (3.10a). In most context, they do not occur with demonstratives, numerals, possessors and adjectival verbs. However, in specific context, as attested in my database, the personal name may occur with the distal demonstrative za, as shown in (3.10b).

- (3.10) a. p < en > angul ti <u>mia</u> tjai <u>kai</u>. <av>hit.(with.hammer) NOM.PRL.SG PR.F OBL.PRL.SG PR.F 'Kai was hit by Mia (with the hammer).' (sinapayan)
  - b. izua ita Padav,  $\underline{a}$ za one NOM.CMN that NOM.PRL.SG **EXIST** day mautjukutjuku a marekaka kacu-in za brothers PR.F bring-UVP NOM.CMN that ki-vurati ma-vavua uri go.to-field will obtain-sweet.potato 'One day, the Mautjukutjuku brought the boys to the mountain for picking
- (3.11) a. *ki-ki-rivuan* ti <u>vikung</u>.

  PASS-obtain-rebuke NOM.PRL.SG PR.M

  'Vikung was scolded.' (sinapayan)

sweet potatoes.' (narrative2)

b. a ngadan na umaq lja-pakedavay.
 NOM.CMN name GEN.CMN house belong.to-PR.F
 'Their family name is Pakdavay.' (narrative1)

A full personal name consists of a first name and a *ngadan na umaq* 'name of house', which is like last name. The first name is marked by a case marker, as *vikung* '(male name)' shown in (3.11a), and the house name is preceded by the prefix *lja*- 'belong to (house)', as is clear in (3.11b).

#### 3.2.3 Kinship terms

Kinship terms share properties with common nouns and personal names. They are typically marked by case markers for personal nouns, as shown in (3.12a). Nevertheless, when a kinship term is modified by any other adnominals, a common case marker is used for the noun phrase headed by the kinship term, as shown in (3.12b).

They typically serve as subjects or objects in a clause. Like common nouns, kinship terms can be modified by possessive clitics, as shown in (3.12b). Sometimes they are used to address someone, as shown in (3.12c).

- (3.12) a. *?ecap-an* ti kama ta vuculj.

  pick.up-IMP.EXCL.UVL NOM.PRL.SG father OBL.CMN meat

  'Pick up the meat for grandfather!' (sinapayan)
  - b. pa?aljai=itjen ta ku=<u>vuvu</u>.

    respect=NOM.1PL.INCL OBL.CMN GEN.1SG=grandfather

    'We respect our grandfather.' (sinapayan)
  - c. *?anglic=anga* su=vasa, <u>kaka!</u>
    scorch=COS GEN.2SG=taro sibling
    'Your taro has been scorched, sister!' (sinapayan)

Common kinship terms are listed in Table 3.2. *?ama* 'father/uncle/male elder peer as mother' and *?ina* 'mother/aunt/female elder peer as mother' are the only two forms that

discriminate genders. In addition, kinship terms do not discriminate between age categories as well. For examples, *kaka* 'sibling/peer relative' can be used to call an elder brother, an elder sister, a younger brother and a younger sister.

Table 3.2

Kinship terms

Kinship term	Meaning	Kinship term	Meaning
vuvu	'grandparent; grandchild; elder peer as grandparents'	kaka	'sibling/peer relative'
?ina / kina	'mother; aunt; female elder peer as mother'	mare-kaka	'siblings'
?ama / kama	'father; uncle; male elder peer as father'	bai	'daughter; wife [VOC]'
cekelj	'spouse'	ипи	'son; husband [VOC]'
mare-cekelj	'husband and wife'	vetjek	'(all) siblings'
tarev	'son or daughter in law'	sikatjara?ita	'cousin'
	Chengo	chi Um	

#### 3.2.4 Place names

Place names are characterized by the obligatory occurrence with the stative location marker i-, as we can see in (3.13a-c). The specific location marker tja- and the motion prefix like pasa- 'move toward' or k < em > asi- 'come back from' may also be used with them, as shown in (3.13b) and (3.13c), respectively.

Place names typically serve as obliques, as *taihuku* 'Taipei' in (3.13a), though they may also be a syntactic subject, such as *akav* 'Pingtung' in (3.13b). In most cases, they are not modified by demonstratives, numerals, possessors and adjectival verbs.

#### (3.13) a. Place name occurring with *i*-

liav aravac a kungkuan i-taihuku many very NOM.CMN school LOC-Taipei

'There are many schools in Taipei' (sinapayan)

#### b. Place name occurring with tja- and i-

a i-akav i-tja-i-lauz tja-i-taiwan.

NOM.CMN LOC-PR.place LOC-SPEC-LOC-south SPEC-LOC-Taiwan

'Pingtung is in the south of Taiwan.' (sinapayan)

#### c. Place name occurring with motion prefix pasa- and i-

ma?inacap=itjen a <u>ma-pasa-i-ljaveavek.</u>
hunt.head=NOM.1PL.INCL LIG go.to-move.toward-LOC-PR.place
'We go head-hunting in Ljaveavek.' (sinapayan)

#### 3.2.5 Spatial nouns

Generally, spatial nouns serve as neither subjects nor objects. Typically, they may be accompanied by the stative location prefix *i*-, the specific location marker *tja*-, verbal prefixes that express motion, the superlative circumfix *tjalja--an* or some other prefixes related to locations. In most cases, they do not occur with demonstratives, numerals, possessive clitic. Remarkably, they often occur in CVCV-reduplicated forms. See Section 4.3.1, Section 4.3.2 and Section 4.3.3 for detailed descriptions.

#### 3.2.6 Temporal nouns

Generally, temporal nouns serve as neither subjects nor objects. Typically, they may be accompanied by ka-/ta-'past', nu-'irrealis', the stative location prefix i-, the specific location marker tja- or some other prefixes related to time. In most cases, they do not occur with demonstratives, numerals and possessive clitics. Remarkably, they often occur in

CVCV-reduplicated forms. See Section 4.3.2, Section 4.3.4 and Section 4.3.5 for detailed descriptions.

#### 3.3 Numerals and sortal affixes

In Section 2.3.5, Table 2.7 shows the basic numerals and bases. Numeral addition is expressed by the conjunction *saʔa* 'and', such as *tapuluʔ saʔa unem* [ten and six] 'sixteen', and multiplication does not require any linking form, like *lima-idai* [five-hundred].

The prefixes ma(lje)-, matja-, and maka--lj are three attested sortal prefixes that attach to a numeral to express the categorization and the quantification of numbers of entities. For number 1, 2 and 3, malje- is abbreviated as ma-

Noun referring to humans have the sortal prefix ma(lje)- when it is modified by a numeral. Nouns referring to houses, fields, lands, villages, wounds, or their related things (e.g. henhouses, archways of villages, hunting areas) have the sortal prefix matja- when modified by a numeral. Nouns referring to days must have the sortal prefix maka- -lj when modified by a numeral. I use 'CL.H', 'CL.F' and 'CL.D' to respectively gloss ma(lje)-, matja- and maka- -lj in this grammar.

Table 3.3 shows the numerals with sortal classifier affixes. It is remarkable that there are a few sound changes of the numeral root by the affixation of *maka--lj*. An idiosyncratic case is the [?] to [v] sound change in the numeral root of 'eight'.

Table 3.3

Numerals with sortal affixes

	With ma(lje)- 'CL.H'	With matja- 'CL.F'	With makalj 'CL.D'
ita 'one'	ma-cidil 'one (person)'	matja-ita 'one (field)'	maka-ta-lj 'one (day)'
drusa 'two'	ma-drusa 'two (people)'	matja-drusa 'two (fields)'	maka-pusa-lj 'two (days)'
tjelu 'three'	ma-tjelu 'three (people)'	matja-tjelu 'three (fields)'	maka-tjelu-lj 'three (days)'
sepatj 'four'	malje-sepatj 'four (people)'	matja-sepatj 'four (fields)'	maka-simatje-lj 'four (days)'
lima 'five'	malje-lima 'five (people)'	matja-lima 'five (fields)'	maka-lima-lj 'five (days)'
unem 'six'	malje-unem 'six (people)'	matja-unem 'six (fields)'	maka-neme-lj 'six (days)'
pitju 'seven'	malje-pitju 'seven (people)'	matja-pitju 'seven (fields)'	maka-pitju <lj 'seven="" (days)'<="" td=""></lj>
?alu 'eight'	malje-?alu 'eight (people)'	matja-?alu 'eight (fields)'	maka-valu-lj 'eight (days)'
siva 'nine'	malje-siva 'nine (people)'	matja-siva 'nine (fields)'	maka-siva-lj 'nine (days)'
tapulu? 'ten'	malje-tapulu? 'ten (people)'	matja-tapulu? 'ten (fields)'	maka-simulu? 'ten (days)'
pida	malje-pida	matja-pida	maka-pida-lj
'how many'	'how many (people)'	'how many (fields)'	'how many (days)'

(3.14) gives three examples of numerals in noun phrases. When the modified noun is implied, it can be ellipsed. Since *malje*- quantifies human beings, in (3.14c), *caucau* 'people' can be ellipsed.

<sup>&#</sup>x27;Two hundred dollars for three packs of chocolate.' (sinapayan)

- b. na=kisudju=anga timadju tu malje-limaPFV=find.contrasexual.friend=COS NOM.3SG OBL.CMN CL.H-five ta  $va\sim vaya\sim vayan$ OBL.CMN woman~PL~woman

  'He have had five girlfriends.' (sinapayan)
- c. izua <u>ma-tjelu</u> (a caucau) a me~ke~kelj

  EXIST CL.H-three LIG people LIG run~PROG~run

  i-?unduciu.

LOC-stadium

Other affixes that modify numerals include *sika*- '(ordinal)', *masan*- -*lj* '(ordinal)' and *kin*--*lj* '(multiplicative)'. Both *sika*- and *masan*--*lj* are affixes that added ordinal meaning on the numerals, such as *sika*-*lima* 'the fifth' and *masan*-*tjelu*-*lj* 'the third'. They frequently cooccur (e.g. *sika*-*masan*-*tjelu*-*lj* 'the third'). *kin*--*lj* is a circumfix that added multiplicative meaning on the numerals, that is, it expresses the number of times, such as *kin*-*ta*-*lj* 'one time' and *kin*-*pitju*-*lj* 'seven times'.

The prefix *sika-* '(ordinal)' is abbreviated as *si-* when attaching to *kin--lj* '(multiplicative)' and *paka--lj* 'CL.D' the phonological variant of *maka--lj* 'CL.D'. The meaning expressed by *si-kin--lj* would be like 'the X-th time', for example, *si-kin-tjelu-lj* 'the third time'. The meaning expressed by *si-paka--lj* would be like 'the X-th day', for example, *si-paka-pitju-lj* 'the seventh day'. The ordinal and multiplicative expressions of numerals is summarized as Table 3.4.

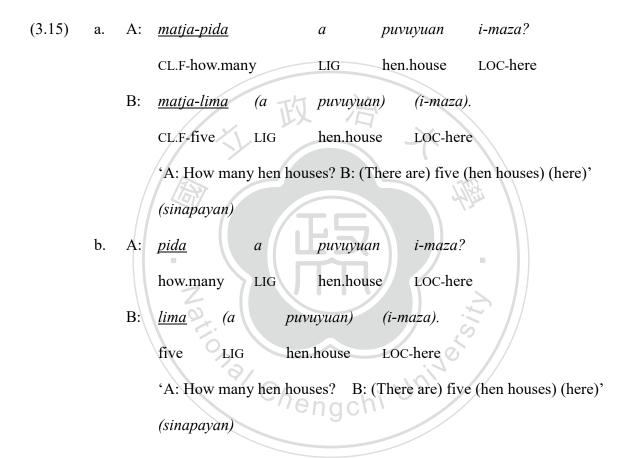
<sup>&#</sup>x27;There are three people running in the stadium.' (sinapayan)

Table 3.4

Ordinal and multiplicative expressions of numerals

	With sika-masanlj / sika-	With kinlj	With si-kinlj
	sika-masan-ita-lj /	kin-ta-lj	si-kin-ta-lj
ita 'one'	sika-ita 'first'	'one (time)'	'first (time)'
1 (, )	sika-masan <b>-m</b> usa-lj /	kin- <b>m</b> usa-lj	si-kin- <b>m</b> usa-lj
drusa 'two'	sika-drusa 'second'	'two (times)'	'second (times)'
	sika-masan-tjelu-lj /	kin-tjelu-lj	si-kin-tjelu-lj
tjelu 'three'	sike-tjelu 'third'	'three (times)'	'third (times)'
sanati 'four'	sika-masan-s <b>im</b> atj <b>e</b> -lj /	kin-si <b>m</b> atj <b>e</b> -lj	si-kin- <b>sim</b> atje-lj
sepatj 'four'	sika-sepatj 'fourth'	'four (times)'	'fourth (times)'
1: (£)	sika-masan-lima-lj /	kin-lima-lj	si-kin-lima-lj
lima 'five'	sika-lima 'fifth'	'five (times)'	'fifth (times)'
6_:?	sika-masan <b>-eme-</b> lj /	kin-eme-lj	si-kin- <b>eme</b> -lj
unem 'six'	sika-unem 'sixth'	'six (times)'	'sixth (times)'
mitin factors?	sika-masan>pitju <lj <="" td=""><td>kin-pitju-lj</td><td>si-kin-pitju-lj</td></lj>	kin-pitju-lj	si-kin-pitju-lj
pitju 'seven'	sika-pitju 'seventh'	'seven (times)'	'seventh (times)'
Jalu (aight)	sika-masan-valu-lj /	kin-valu-lj	si-kin-valu-lj
?alu 'eight'	sika-?alu 'eighth'	'eight (times)'	'eighth (times)'
_:	sika-masan-siva-lj /	kin-siva-lj	si-kin-siva-lj
siva 'nine'	sika-siva 'nineth'	'nine (times)'	'nineth (times)'
tamulu? (4)	sika-masam <b>-sim</b> ulu?/	kin- <b>sim</b> ulu?	si-kin- <b>sim</b> ulu?
tapulu? 'ten'	sika-pulu? 'tenth'	'ten (times)'	'tenth (times)'
pida	sika-masan-pida-lj /sika-pida	kin-pida-lj	si-kin-pida-lj
'how many'	'w/c number of order'	'how many (times)'	'w/c number of order (of time)'

The interrogative *pida* 'how many' refers to how great the number of something is. It may be affixed by the sortal affixes and affixes that express ordinal and multiplicative meaning. Actually, the omission of the sortal affix is now acceptable by native speaker as well. However, as is clear in (3.15), when the questioner asked questions by *CL-pida*, the answerer answers with the identical form.



#### 3.4 Verbs

This section gives a simple classification of verbs. Three main categories are presented: dynamic verbs, stative verbs, adjectival verbs and auxiliary verbs.

#### 3.4.1 Dymamic vs. stative verbs

Dynamic verbs are verbs that inherently involve any form of change (Velupillai, 2012:208), as opposed to stative verbs, which present mental state or stative concept. The

internal structure of verbs is a broad issue. The following discussion does not cover all the cases.  $^{46}$  Due to the limitation of my research, I only show that (i) verbs that can occur with <em> belong to dynamic verbs, (ii) verbs with ma- may be dynamic or stative verbs, and (iii) dynamic verbs also include verbs without overt markings. (3.16) shows some examples.

(3.16)	<u>Verb stem</u>	<u>Verb</u>	Category
	kan 'eat'	<i>k</i> < <i>em</i> > <i>an</i> 'eat [AV]'	Dynamic verb
		kan-en 'eat [UVP]'	Dynamic verb
	ve?ac 'create'	v <en>?ac 'create [AV]'</en>	Dynamic verb
		v <in>?ac 'create [UVP]'</in>	Dynamic verb
	ngetjez 'come'	ma-ng(e)tjez 'come [AV]'	Dynamic verb
	sengseng 'work'	ma-sengseng 'work [AV]'	Dynamic verb
	dudu 'angry'	ma-dudu 'be angry'	Stative verb
	lagav 'forget'	ma-lagav 'forget'	Stative verb
	salu 'believe'	ma-salu 'believe'	Stative verb
	vaik 'go'	vaik 'go'	Dynamic verb
	ivu 'speak'	ivu 'speak' engchi	Dynamic verb

Both dynamic verbs and stative verbs may occur with auxiliary verbs and aspectual markers. In (3.17a) and (3.17b), the dynamic verb *djemadjas* 'hold [AV]' and the stative verb *macingul* 'be stuck' both occur with the perfective marker na=. In (3.17c) and (3.17d), the dynamic verb *vaik* 'go' and the stative verb *maculja* 'be hungry' are both marked by the auxiliary verb *tjara* 'must'.

\_

<sup>&</sup>lt;sup>46</sup> The classification of verbs is elaborately investigated in Huang (2012), which shows that stative verbs in puljetji Paiwan generally include the two classes: (i) verbs with ma-/ka- alternation, (ii) verbs with  $\emptyset/ka$ - alternation, and non-stative verbs include the three classes: (i) verbs with  $<em>/\emptyset$  alternation, (ii) verbs with m/p alternation, and (iii) verbs without overt alternation.

## (3.17) a. <u>Aspectual marker + dynamic verb *dj*<*em*>*adjas*</u>

<u>na=dj<em>adjas</u> ta zaman a

PFV=<AV>hold OBL.CMN torch NOM.CMN

ma?acuvucuvung.

young.people

'The teenagers lifted up the torches.' (sinapayan)

#### b. <u>Aspectual marker + stative verb *ma-cingul*</u>

<u>na=ma-cingul</u> sa ku=varung.

PFV=STAT-be.stuck PROX.VIS GEN.1SG=mood

'I have difficulty (in my mood).' (sinapayan)

## c. Auxiliary verb + dynamic verb vaik 'go'

tjara vaik=anga ti buka.

must go=COS NOM.PRL.SG PR.M

'Buka must have gone away.' (sinapayan)

#### d. Auxiliary verb + stative verb *ma-culja* 'hungry'

tjara ma-culja=anga a kakedrian

must STAT-hungry=COS NOM.CMN child

'The children must be hungry.' (sinapayan)

## 3.4.2 Adjectival verbs

Adjectival verbs express attribute, property and characteristics. They are referred to as a class of stative verbs in Huang (2012) and as the category of 'adjectives' in Chang (2006). They can not take  $\langle em \rangle$  and do not have other overt structural markings. As a distinctive feature, they frequently appear in reduplicated form without an overt change of meaning. They also frequently occur with the comparative prefix tja-, superlative circumfix  $tjalja \rangle \langle an$  and the intensifier aravac 'very'. Occasionally, they may occur with aspectual marker, as

shown in (3.18b). Generally, neither auxiliary verb nor bound personal pronouns can occur with them.

'Patagaw is the tallest.' (sinapayan)

'The clouds have already turned dark. It is going to rain.' (sapulju)

There is a limited number of adjectival verbs in Paiwan. Some would claim that they belong to the class of adjectives, possibly because that they take attributive use frequently and may be marked by the intensifier aravac 'very'. However, adjectival verbs may take aspectual marker, as Pecengel 'black' shown in (3.18b), which takes the change-of-state aspectual marker Pecengel and Pecengel 'black' shown in (3.18b), which takes the change-of-state

### 3.4.3 Auxiliary verbs

Auxiliary verbs do not have overt structural markings like  $\langle em \rangle$  or ma-. They usually occur with main verbs. However, some of them may be used as independently. Distinct from serial verb construction, no ligature a occurs between an auxiliary verb and a verb, as shown in (3.19).

# (3.19) a. Serial verb construction: ligature *a* is required

<u>vaik</u>	а	ma-tjuma?	timadju.
go	LIG	go.to-house	NOM.3SG

<sup>&#</sup>x27;He goes home.' (sinapayan)

b. [auxiliary verb + main verb] construction: no ligature a

will go.to=NOM.1PL.INCL

'We are going to leave.' (sapulju)

Auxiliary verbs exhibit various extents of proximity to dynamic or stative verbs, which may take aspectual markers and pronominal clitics. In (3.20a) and (3.20b), we can see that the auxiliary verb *ulja* 'wish' may take a pronominal clitic and not take an aspectual marker. The auxiliary verb *tjara* 'must' may take neither an aspectual marker nor a pronominal clitic, as shown in (3.20c-f). The aspectual marker and the pronominal clitic occur with the main verb.

- (3.20) a. <u>ulja=itjen</u> pa-tja-liav ta rakac-an.

  desire=NOM.1PL.INCL CAUS-COMP-many OBL.CMN brave-NML

  'Wish that we gain more and more bravery.' (sinapayan)
  - b. \*ulja=(a)nan=itjen pa-tja-liav ta

    desire=CON=NOM.1PL.INCL CAUS-COMP-more OBL.CMN

    rakac-an.

    brave-NML

'Continuously wish that we gain more and more bravery.'

(sinapayan)

neka=(a)nga paljidring vikung. ni not.exist=COS LIG GEN.PRL.SG car PR.M tjara vaik=anga ma-sasav. must go=cos LIG go.to-outside

'Vikung's car has gone. (He) must have gone outside.' (sinapayan)

- d. \*tjara=anga vaik timadju.
  must=COS go NOM.3SG
  'She must have gone.' (sinapayan)
  e. tjara vaik=itjen.
- must go=NOM.1PL.INCL

  'We must go.' (sapulju)
- f. \*tjara=itjen vaik.

  must=NOM.1PL.INCL go

  'We must go.' (sapulju)

In my database, four auxiliary verbs are attested: *uri* 'will', *tjara* 'must', *ulja* 'wish' and *maya* 'do not'. They convey mood in a clause, which is discussed in the next section.

## 3.5 Mood, aspect and voice

In this section, we introduce main systems of mood and aspect and their interaction with voice in North Jinfeng Paiwan.

First, there is a main distinction between the indicative and the non-indicative mood.

This distinction was first proposed by Ross (1995). The indicative mood makes a statement, which may be positive or negative, or asks a question, whereas the non-indicative mood expresses a request, a command or a wish. As attested in my database, in North Jinfeng Paiwan, the markers of the non-indicative mood include the imperative and the optative ones.

From (3.21), we can see that voice and mood are intricately expressed in a single marking. The verb *m-alap* 'take [AV]' carries an actor voice in an indicative mood. The clauses in (3.21b) and (3.21c) are expressed in a non-indicative mood. The verb *vaik-u* 'go [IMP.EXCL.AV]' carries an actor voice in an imperative mood, and *pacun-ai* 'see [OPT.INCL.UVL]' carries a locative undergoer voice in an optative mood. Readers may refer to

Section 2.4.3 to see the voice affixes in an indicative mood. Due to limited space, the voice affixes in a non-indicative mood are not discussed in details in this thesis.

### (3.21) a. <u>Indicative mood</u>

<u>m-alap</u> ta ?adupu timadju.

AV-take OBL.CMN book NOM.3SG

'He takes the book.' (sinapayan)

### b. <u>Imperative mood</u>

<u>vaik-u</u> a s<em>a-kungkuan!

go-IMP.EXCL.AV LIG <AV>go.to-school

'Go to school!' (sinapayan)

# c. Optative mood

tja=<u>pacun-ai</u> nu=k<in>acu

GEN.1PL.INCL=see-OPT.INCL.UVL NOM.CMN GEN.2PL=<UVP>bring

a papa!

LIG prepared.food

'Let's (we wish to) see your food (prepared by your mom)!'

(sinapayan)

Under indicative mood, there is a realis/irrealis distinction (Zeitoun et al., 1996; Ross, 2009). The realis is unmarked. In North Jinfeng Paiwan, the auxiliary verb *uri* '(irrealis)' marks the irrealis mood. As illustrated in (3.22), *uri* is used not only in future event but is also used in the event that did not happen in the past.

# (3.22) a. *uri* used in future event

uri ku=kan-en=anga a-za nu=nema~nemanga
IRR GEN.1SG=eat-UVP=COS NOM.CMN-that GEN.2PL=stored.food
i-tjalatj ta lukulj.
LOC-interior OBL.CMN wooden.box
'I will eat all those your food stored in the box.' (narrative2)

b. *uri* used in event that did not happen in the past

ka uri k<em>esa=aken ta kaiven, when.PST <AV>cook=NOM.1SG OBL.CMN dinner **IRR** na=v<en>eli=anga ti kama papa ta PFV=<AV>buy=COS NOM.PRL.SG father OBL.CMN prepared.food 'When I was going to cook the dinner, my father had already bought the meal box.' (sinapayan)

With respect to aspect, there is a prominent aspectual distinction of perfective and imperfective (Zeitoun et al., 1996). The imperfective is unmarked. Similar as the analysis of Chang (2006), in North Jinfeng Paiwan, na is a perfective aspectual marker in AV clause, while  $\langle in \rangle$  marks perfective aspect in UV clause. Examples are shown in (3.23).

### (3.23) a. <u>Perfective in AV clause</u>

u?aljay, na=?<em>iladjа icu PFV=<AV>sit.down NOM.CMN PROX LIG man i-pasa-vavav Paciljai. ta LOC-toward-top OBL.CMN stone 'This man, is sitting on the stone.' (sapulju)

# b. Perfective in UV clause

s<in>i-pavai sa ?adupu tjanusun timadju.

UVC-gave PROX.VIS book OBL.2SG NOM.3SG

'It's she who gave you the book.' (sinapayan)

Next, we discuss the three aspectual markers, = anga 'change-of-state aspect', = anan 'continuative' and tjau= 'recent perfective aspect', and the reduplication of verb stem, which conveys progressive or habitual aspect.

The change-of-state aspectual marker = anga expresses an action or event that has been carried out or a state that has been reached, as shown in (3.24a). It is distinct from the perfective marker na=. It may convey the sense of immediacy ('should already been carried out') in an event that has not yet been carried out or a state that has not been reached. In (3.24b), the typhoon has not reached yet but would reach in a very short time. In (3.24c), the addressee does not bring the cup to the tombstone in the moment when the addresser makes the command.

'The typhoon has gone away.' (sinapayan)

c. alap-u sa  $\underline{kacu-(u)=anga}$  a take-IMP.EXCL.AV then bring-IMP.EXCL.AV=COS NOM.CMN

-

<sup>&</sup>lt;sup>47</sup> The term 'recent perfective' is adopted from Huang (2012:74).

ku=karutailj sa <u>pasa-sauljai-u=anga!</u>
GEN.1SG=cup.name then move.toward-tombstone-IMP.EXCL.AV=COS
'Take my cup named 'Karutailj' and bring it to the tombstone!' (narrative1)

The continuative aspectual marker = anan expresses an action or event that is still happening or a state that is continuing. In (3.25a), = anan expresses the continuous changing of the weather, and in (3.25b), = anan along with the imperative marker is used to make a command of keeping doing something.

(3.25)ma-parumalj=anan kina?adavan. STAT-change=CON PROX.VIS weather 'The weather is keep changing.' (sinapayan) b. ukelj-i=anan tja=?inaljan а GEN.1PL.INCL=village run-IMP.INCL.AV=CON OBL.CMN LIG kin-musa-lj kilius **MULTI-two-MULTI** make.a.round 'Let's run in our villages for two circles more!' (sapulju)

The recent perfective aspectual marker tjau = 'just' expresses an action or event that is carried out or a state that is reached just a moment ago. In (3.26a) and (3.26b), the marker tjau = conveys that Vikung drank wine and apples are picked up in a short time before the utterance.

b. izua *tjau=cepis-en* linggu unem just=pick.off-UVP apple **EXIST** six LIG LIG vakal. i-tjaladj ta LOC-interior basket OBL.CMN

Aspect may also be expressed through reduplication. CVCV- or CV- reduplication of a verb stem typically expresses progressive aspect. In (3.27a), *s*<*em*>*ena-senai* 'sing [AV.PROG]' is formed by the reduplication of the verb stem *senai* plus the actor voice infix <*em*>, and in (3.27b), *pa-ka-kan* 'feed [PROG]' is formed by the reduplication of the verb stem *kan* 'eat' plus the causative prefix *pa*-.

# (3.27) <u>Progressive aspect</u>

- a. <u>s<em>ena-senai</u> ti kama. <AV>PROG-sing NOM.PRL.SG father
  - 'Father is singing.' (sinapayan)
- b. pa-ka-kan kakedrian icu taCAUS-PROG-eat PROX LIG child NOM.CMN OBL.CMN cemel sizi. grass OBL.CMN goat

In specific context, CVCV-reduplication of verb stem may express habitual event, as *si- ?alju-?aljup* 'hunt [UVC.HAB]' shown in (3.28), which consists of the reduplicated form of the verb stem *?aljup* 'hunt' plus the circumstantial undergoer voice prefix *si-*.

<sup>&#</sup>x27;Inside the basket are six apples that have just been picked off.' (sinapayan)

<sup>&#</sup>x27;These children are feeding goats with the grass.' (sinapayan)

# (3.28) <u>Habitual aspect</u>

tja=si-?alju-?aljup a icu a
GEN.1PL.INCL=UVC-HAB-hunt NOM.CMN PROX LIG
pana?

bow.and.arrow

'We use the bow and arrow to hunt.' (sinapayan)

Next, we discuss the two auxiliary verbs, *tjara* 'must' and *ulja* 'wish', which are used to express mood.

The auxiliary verb *tjara* 'must' indicates necessity and has both epistemic and deontic use. In (3.29a), the addresser makes a judgement that Paljang must have gone after observing that her car is not in the place where she used to park. In (3.29b), the addresser expresses the obligation in the light of usual practices that students must go to school.

# (3.29) a. Epistemic use of *tjara*

neka=(a)ngaapaljidringnipaljang,not.exist=COSNOM.CMNcarGEN.PRL.SGPR.Ftjaravaik=angaama-sasavmustgo=COSLIGgo.to-outside

'Paljang's car has gone. She must have gone outside.' (sinapayan)

# b. <u>Deontic use of *tjara*</u>

tjara kilangeda a situ sa vaik a
must be.obedient NOM.CMN student then go LIG
s<em>a-kungkuan.
<AV>go.to-school

'It is necessary that students obediently go to school.' (sinapayan)

The auxiliary verb *ulja* 'wish' expresses a prospection or wish, as shown in (3.30). In the example, we can see that *ulja* is used to convey a prospection of having more bravery.

(3.30) <u>ulja=itjen</u> pa-tja-liav ta rakac-an.

desire=NOM.1PL.INCL CAUS-COMP-many OBL.CMN brave-NML

'Wish that we gain more and more bravery.' (sinapayan)

Next, we discuss the two negation markers used in a clause with indicative mood: neka "not exist' and ini(=ka) 'not'. The former is used to express inexistence or 'not possessing', whereas the latter is used to negate the occurrence of an event or action. In (3.31a), neka expresses the inexistence of people. In (3.31b), neka is used to indicate that Kai does not have money. In (3.31c), the first ini=ka expresses a condition that raining did not occur, and the second ini=ka indicates the negation of the action of 'washing the clothes again'. In (3.31d), ini= is used to negate the action of 'thinking of your name'.

### (3.31) a. *neka* expressing inexistence

not.exist=COS NOM.CMN people now

'There are no people now.' (sinapayan)

### b. *neka* expressing 'not possessing'

neka a paisu ni kai not.exist NOM.CMN money GEN.PRL.SG PR.F 'Kai has no money.' (sinapayan)

<sup>48</sup> There is distinction between *ini* and *ini=ka*, and there are also various functions of *neka* and *ini(=ka)*. Due to limitation of scope and space, they are not discussed here. The topic of negation is elaborately investigated in Wu (2010).

\_

# c. <u>ini=ka</u> negating the occurrence of an event/action

nu  $\underline{ini=ka}$  na=?<em>udjalj ta-sauni, tjara

if.IRR not=not PFV=<AV>rain PST-moment must

<u>ini=ka</u>=ken a pamalj a venate?

not=not=NOM.1SG LIG do.once.again LIG wash.(clothes)

ta itung.

OBL.CMN clothes

'If there had been no rain, I do not have to wash the clothes again.'

(sinapayan)

# d. *ini* negating the occurrence of an event/action

<u>ini=anan</u> pa?enetj timadju ta su=ngadan.

not=CON remember NOM.3SG OBL.CMN GEN.2SG=name

'She still can not think of your name.' (sinapayan)

(3.32) a. pakitaga-in ti vikung na lja?edi?edi

reminded-UVP NOM.PRL.SG PR.M GEN.CMN neighbor

<u>maya</u> ?iljengal nu-?ezemezemetj

do.not make.much.noise IRR-night

- 'Vikung was warned by the neighbor (that he should) not make so much noise
- at night.' (sinapayan)
- b. <u>maya=ken</u> kivada?.

do.not=NOM.1SG ask

'Don't ask me.' (sinapayan)

c. \*maya vaik-u!

do.not go-IMP.EXCL.AV

'Do not leave!' (sinapayan)

Finally, we discuss the negative imperative marker *maya* 'do not', which is used to express prohibition or forbid someone from doing something. In (3.32a), *maya* conveys prohibition of making annoying noice at night. In (3.32b), *maya* is used to express the unwillness of being asked and plead the addressees not to ask. As indicated by Wu (2010:59), *maya* can not occur with a verb with an imperative marker. (3.32c) is an unnatural sentence with the co-occurrence of *maya* and *-u* 'imperative [EXCL.AV]'.



# **Chapter 4: Deixis**

This chapter investigates deictic markers and their relevant expressions in North Jinfeng Paiwan. Section 4.1 discusses the personal pronominal system, in which 10 bound forms and 21 free forms are attested. Section 4.2 deals with demonstratives, which consist of three forms: icu '(proximal)' and z(u)a '(distal)' and sa '(visible proximal)'. Section 4.3 investigates spatial and temporal expressions, which concern i- '(stative location)', tja- '(specific location)' and their interaction with spatial nouns, temporal nouns, the temporal markers ta- /ka- '(past)', nu- '(irrealis)' and tucu 'now' and their interaction with temporal nouns and ordinal numerals.

# 4.1 Personal pronouns

In North Jinfeng Paiwan, personal pronouns exhibit a three-way distinction on case (nominative vs. genitive vs. oblique), a three-way distinction on person (first person vs. second person vs. third person) and a dichotomy on number (singular vs. plural). In addition, there are inclusive and exclusive forms on first person plural pronouns, and there are bound forms and free forms of the first and second person pronouns in nominative and genitive cases.

By observation, free forms are combinations of bound forms, case markers, the plural marker *a*- and the prefix *nu*-. In this thesis, I am not discussing why and how they are constructed. The form of personal pronouns in Paiwan are usually involved in the discussion of PAn reconstructed pronominals in the literature (Zeitoun et al, 1999; Ross, 2006, 2013).

The bound forms are not functionally equivalent to the free forms. In first and second person pronouns, the bound forms are unmarked, whereas the free forms are either topicalized elements or newly-introduced information.

Table 4.1

Personal pronouns

	Nominative		Genitive	,	Oblique
1st ·1	=(a)ken /	ti-aken /	ku=/	ni-aken /	tja-nu-aken /
1 <sup>st</sup> person singular	=(a)?en	ti-a?en	$\partial u =$	ni-a?en	tja-nu-a?en
2 <sup>nd</sup> person singular	=sun	ti-sun	su=	ni-sun	tja-nu-sun
3 <sup>rd</sup> person singular		ti-madju		ni-madju	tjay-madju
Inclusive 1st person plural	=itjen	ti-tjen	tja=	ni-tjen	tja-nu-itjen
Exclusive 1st person plural	ti-amen	nia=	ni-amen	tja-nu-amen	
2 <sup>nd</sup> person plural	=(e)mun	ti-mun	nu=	ni-mun	tja-nu-mun
3 <sup>rd</sup> person plural		ti-a-madju		ni-a-madju	tjay-a-madju

Now, we discuss the distinction by starting with the nominative personal pronouns. The bound forms of the first and second person nominative pronouns are shown in (4.1). They may serve as different semantic roles in clauses taking different voices. In (4.1a), =aken '(first person singular nominative pronoun)' is an agent that takes an action to take the book. In (4.1b), the first =sun 'second person singular nominative pronoun' is a theme that undergoes an inquiry and the second =sun is an agent. In (4.1c), =aken is a beneficiary that gets benefits from the mother. As shown by (4.1d) and (4.1e), the speaker is simultaneously a participant role when =itjen 'first person plural inclusive nominative pronoun' is used, while the speaker is excluded when using =amen 'first person plural exclusive nominative pronoun'.

# (4.1) <u>Bound forms of nominative personal pronouns</u>

a. m-alap= $\underline{aken}$  ta 2adupu.

AV-take=NOM.1SG OBL.CMN book

'I take the book.' (sinapayan)

b. ku=kivadai-ai=sun, kasi-(i)nu=sun?

GEN.1SG=ask-OPT=NOM.2SG be.from-where=NOM.2SG

'I ask you (excuse me), where are you from?' (ka?aluan)

c. s<in>i-veli=aken ni 2ina ta tuki.

UVC-bought=NOM.1SG GEN.PRL.SG mother OBL.CMN watch

'Mother bought a watch for me.' (ka?aluan)

d. nu k < em > an = itjen ta ci ? av

IRR <AV>eat=NOM.1PL.INCL OBL.CMN fish

ma-pa-tja-liav a tja=tarivak-an.

ma-CAUS-COMP-many LIG GEN.1PL.INCL-healthy-NML

'Eating fish gains our health.' (sinapayan)

e. k<em>asi-tjavualji=amen sa pana-zaya

<AV>be.from-PR.place=NOM.1PL.EXCL then move.toward-north

dj<em>aljun i-valangav.

<AV>arrive LOC-PR.place

'We go north from Taimali to Taitung.' (sinapayan)

The free forms of the first and second person nominative pronouns are used as topicalized elements, as shown in (4.2). They are classified as 'neutral pronouns' in Zeitoun et al. (1999:176). There is punctuation between the topicalized elements and the main verb. In (4.2a), the topicalized subject is *tiaken* '[NOM.1SG]'. In addition, there may be compounding between a topicalized element and a noun, as *tiamen a tapangaljan* [NOM.1SG.EXCL LIG

class] 'our class' shown in (4.2b). Chang (2016:177) states that the topicalized free pronouns occur as left-dislocated NPs. In my database, topicalized free pronouns as right-dislocated NPs are also found. In (4.2c), timun '(second person plural nominative pronouns)' is uttered deliberately in speech, after the imperative verb *kelj-u* 'come [IMP.EXCL]'.

#### (4.2)Free forms of first and second person nominative pronouns

- tiaken, m-alap Padupu. a. ta
  - NOM.1SG AV-take OBL.CMN book
  - 'It's I, who take the book.' (sinapayan)
- b. tiamen ma-tjelu=anga tapangaljan, sinsi

class CL.H-three=COS NOM.1PL.EXCL LIG teacher

na=masa-se~vali~valit. а

PFV=RECP-take.over~RED~take.over LIG

'For our class, it has been taken over by three teachers.' (sinapayan)

c. kelj-u, timun!

engchi Univer come-IMP.EXCL NOM.2PL

'You, come!' (sinapayan)

The free forms of third person nominative pronouns have both functions that free and bound forms of first person and second person nominative pronouns have. Examples are shown in (4.3). In (4.3a), timadju '(third person singular nominative pronoun)' refers to the agent participant who swam. In (4.3b), tiamadju '(third person plural nominative pronoun)' is a topicalized subject.

# (4.3) Free forms of third person nominative pronouns

man~RED~man

- a. na=k < em > avakav <u>timadju</u> i-pana.

  PFV=<AV>swim NOM.3SG LOC-river
  - 'He swam in the river' (sinapayan)
- b. <u>tiamadju</u>, pu-aljak tu ma-drusa ta

  NOM.3PL give.birth.to OBL.CMN CL.H-two OBL.CMN

  u~?alja~?aljay.

'As for them, they have (give birth to) two boys.' (narrative1)

Next, we consider the genitive personal pronouns. The bound forms of genitive personal pronouns are shown in (4.4). A bound form of the genitive personal pronoun is either the agent in UV clause or the possessor in NP. In (4.4a), ku = '(first person singular genitive pronoun)' serves as an agent who is going to eat the food, and nu = '[GEN.2PL]' refers to the possessor of the food. In (4.4b), su = '(second person singular genitive pronoun)' serves as an agent and tima 'who [NOM]' is the location-oriented undergoer. In (4.4c), tja = '(first person plural inclusive genitive pronoun)' is an agent who build the house, and tima 'wood' and tima 'sogon grass' are the instruments to build the house.

# (4.4) Bound forms of genitive personal pronouns

ku=kan-en=anga a. uri а za GEN.1SG=eat-UVP=COS IRR NOM.CMN that nu=nema~nemanga i-tjalatj lukulj. ta GEN.2PL=PL~stored.food LOC-interior OBL.CMN wooden.box 'I will eat all those your food stored in the box.' (narrative2)

- b. a zua veljevelje tima  $\underline{su} = p < in > avai-an$ NOM.CMN DIST banana who.NOM GEN.2SG=gave-UVL

  'To whom did you give that banana?' (sapulju)
- c. manu kasiv manu ljavia a uri
  or wood or sogon.grass LIG IRR

  <u>tja</u>=si-san-umaq?

GEN.1PL.INCL=UVC-manufacture-house

'How would we build the house, by using wood or sogon grass?'
(sinapayan)

# (4.5) Free forms of genitive personal pronouns

a. p < in > -vavav ta cukui, nia?en, a za <br/> <UVP>put.in-top OBL.CMN table GEN.1SG NOM.CMN that <br/> veljevelj.

banana

'It's I, who put the banana on the table.' (sinapayan)

- b. si-alap <u>nimadju</u> ta <u>Padupu</u> ti vikung.

  UVC-take GEN.3SG OBL.CMN book NOM.PRL.SG PR.M

  'She takes the book for Vikung.' (sinapayan)
- c. *izua matja-tjelu a kavuavuan <u>niamadju</u>*.

  EXIST CL.F-three LIG field GEN.3PL

  'There are three fields of his (family).' *(sinapayan)*
- d. \*nimadju alap-en a ?adupu.

  GEN.3SG take-UVP NOM.CMN book

  '(unnatural sentence) It's she, who takes the book' (sinapayan)

The free forms of genitive personal pronouns are shown in (4.5). The free form of first or second person genitive pronoun is usually an emphasized subject, as *niaʔen* '(first person singular genitive pronoun)' in (4.5a), which is the new information that the speaker gives. The third person genitive pronoun may either refer to an agent in UV clause or serve as a possessor in NP. (4.5b) is an UVC clause, in which *nimadju* '(third person singular genitive pronoun)' refers to the agent who takes the book, and *vikung* '[PR.M]' is the beneficiary that benefits from the giving. In (4.5c), *niamadju* '(third person plural genitive pronoun)' serves as a possessor of the property *kavuavuan* 'field'. It should be noted here that the free genitive pronouns may not be fronted to the initial position. Thus, (4.5d) is an unnatural sentence.

# (4.6) Oblique personal pronouns

- a. *tjara paʔenetj-u <u>tjanuaken</u>*.

  must remember-IMP.EXCL OBL.1SG
  - 'Be sure to remember me.' (sinapayan)
- b. t-ima-ima na=pavai tjanusun sa linggu?

  who.NOM.PL PFV=give OBL.2SG PROX.VIS apple

  'Which people gave you these apples?' (sapulju)

Next, we will discuss the oblique personal pronouns, which are all free forms. Typically, they act as an undergoer, but sometimes they may be a goal or an experiencer. Examples are given in (4.6). In (4.6a), *tjanuaken* '(first person singular oblique pronoun)' serves as a theme, which is a semantic role subsumed in the category of undergoer. In (4.6b), *tjanusun* '(second person singular oblique pronoun)' is a goal to whom some people gave the apple.

### 4.2 Demonstratives

There are three demonstratives in North Jinfeng Paiwan: proximal icu, distal z(u)a and visible proximal sa. At present, no distinction between za and zua is attested in my database. According to my informant, za and zua are in free variation.

The proximal *icu* is typically used to refer to something near the deictic center or in a clearly delineated space. In (4.7a), *icu a uma?* [PROX LIG house] 'this house' refers to the house that is close to the speaker. In (4.7b), *sinapayan* indicates an explicitly demarcated village, and the speaker is not necessarily in or near *sinapayan*. The proximal *icu* may also refers to a time in an explicitly delineated time frame. In (4.7c), *icu* indicates the time point when Sayiv came to the speaker's house for the fifth time.

# (4.7) <u>Proximal demonstrative *icu*</u>

# a. Pointing to something near the deictic center

nguangua? a Puljav na <u>icu</u> a uma?.
beautiful NOM.CMN color GEN.CMN PROX LIG house
'The color of this house is beautiful.' (sinapayan)

# b. Pointing to something in a clearly delineated place

dialan i-sinapayan aicu **PROX** street LOC-Zhengxing.village NOM.CMN LIG sinpelju?-an na-sa-miling vecik full.of-UVL OBL.CMN beautiful.and.classical LIG carving 'The streets of Zhengxing village are covered with beautiful totem.' (sinapayan)

### c. Pointing to a time in an explicitly delineated time frame

a <u>icu</u> si-kin-lima-lj a

NOM.CMN PROX ORD-MULTI-five-MULTI LIG

ma-tja-nia=uma? ni sayiv.

go.to-SEPC-GEN.1PL.EXCL=house GEN.PRL.SG PR.M

'This is the fifth time that Sayiv came to my house.' (sinapayan)

The distal za is typically used to refer to something far away from the deitic center or in an obscure space. In (4.8a), the prey is far away from the deitic center, which is the location of the speaker. In (4.8b), the husband and wife are characters of a story, which is not in a clearly delineated space. Sometimes, the distal za may be used to make emphasis on topicalized elements. In (4.8c), za is used to emphasize the personal name *pulelengan*.

In my database, there is no example in which the distal za is used to indicate time point.

# (4.8) Distal demonstrative z(u)a

a. Pointing to something far away from the deitic center

ma-cingul a za sacemel ta

STAT-be.stuck NOM.CMN DIST prey OBL.CMN

dringai.

trap

'That prey is stuck in the trap.' (sinapayan)

b. Pointing to something in an obscure space

izua za mar(e)-cekelj.

EXIST that RECP-spouse

'There were a husband and a wife.' (narrative 1/2)

c. Giving emphasis

lja?ua a za ti pulelengan,

however NOM.CMN that NOM.PRL.SG PR.M

izua ma-drusa kaljakan a ma-drusa
EXIST CL.H-two stepchild LIG CL.H-two
u~?alja~?aljay.

man~RED~man

'However, Pulelengan had two marriages and there were two boys who were given birth to by the ex-wife.' (narrative2)

The visible proximal sa is typically used to refer to something near the deictic center and within visible range. In (4.9), the television is very close and visible to the speakers and addressees. In my database, there is no example in which the visible proximal sa is used to indicate time point.

# (4.9) <u>Visible Proximal demonstrative sa: pointing to something near the deictic center</u> and within visible range

tima na=k<em>a-palak <u>tu</u> sa tiribi?

who.NOM PFV=<AV>ka-break OBL.CMN PROX.VIS television

'Who broke this television?' (sinapayan)

Morphosyntactially, sa behaves distinctly from icu and z(u)a. The proximal icu and the distal z(u)a may be used as adnominals or pronouns, while sa is used only as an adnominal demonstrative, as shown in (4.10). In the abovementioned examples, except for (4.7c), all other demonstratives are used as adnominals.

### (4.10) a. *icu* used as a pronoun

a <u>icu</u> a sanga~sangas-an a

NOM.CMN PROX LIG RED~first-UVL LIG

<u>lj<in>e-vavav-an</u> ni vuvu a u?aljay

towarded-top-UVL GEN.PRL.SG grandparent LIG man

ta hikuki.

OBL.CMN airplane

'This is the first time that my grandfather takes (is made toward the top by) the airplane.' (sinapayan)

# b. z(u)a used as a pronoun

alap-en a <u>za</u> nimadju.

take-UVP NOM.CMN DIST GEN.3SG

'She took that.' (sinapayan)

# c. <u>sa can not be used as a pronoun</u>

\*alap-en <u>sa</u> nimadju.

take-UVP PROX.VIS GEN.3SG

'She took this.' (sinapayan)

The proximal icu and the distal z(u)a are always marked by common case markers. In (4.8c), we can see that za precedes the noun phrase [ti pulelengan], which consists of the personal case marker and the personal name, but za itself is still marked by the common case marker a, not by the personal case marker ti. The visible proximal sa does not occur with a case marker, and it occurs with tu in oblique case. Table 4.2 shows the paradigm of [case marker + demonstrative].

Table 4.2

Demonstratives with case markers

	Nominative	Genitive	Oblique
Proximal	a icu	n(u)a icu	t(u)a icu
Distal	a z(u)a	n(u)a z(u)a	t(u)a z(u)a
Visible Proximal	sa	(not attested)	tu sa

### 4.3 Spatial and temporal constructions

This section investigates deictic markers that are involved in the spatial and temporal constructions, which include i- '(stative location)' and tja- '(specific)', ta- /ka- '(past)', nu- '(irrealis)' and tucu 'now'.

Spatial constructions are spatial nouns, which are typically marked by i- or motion verbalizers, or noun phrases headed by spatial nouns. Temporal constructions include temporal adverbs and temporal adverbial phrase headed by temporal adverbs. Besides tucu, all other temporal adverbs internally consist of ta- /ka- or nu- and a temporal noun or an ordinal numeral.

# 4.3.1 Stative location prefix *i*-

The stative location prefix i- is added on a place name, a spatial noun, a common noun that denotes a place or a temporal noun, as shown in (4.10).

The status of i- is controversial in the literature. In Egli's (1990) analysis, i- behaves like a case marker. Chang (2006) regards i- as a preposition that constitutes a prepositional phrase with a locative noun phrase. In this thesis, I reject both the analysis of i- as a marker of case and as a preposition and identify i- as a stative location prefix, which is similar as Li (2004, 2005), in which i- is treated as a 'static locative predicate'.

# (4.11) Stative location prefix *i*-

<u>Form</u>	<u>Type</u>	<u>Gloss</u>	<u>Meaning</u>
i-ka?aluan	<i>i</i> -place.name	LOC-PR.place	ʻin Jialan village'
i-sasav	i-spatial.noun	LOC-outside	'in the outside'
i-kungkuan	i-common.noun	LOC-school	'at school'
i-vililj	<i>i</i> -temporal.noun	LOC-next	'later'

In (4.12a), i- is added on the place name ljaveavek and tjurutjaianeanes. They occur with the verbal prefix p < in > aka- 'be called < UVP >', and the two i- here obviously does not act as a preposition. In (4.12b), the syntactic subject i-valangav 'Taitung' is marked by the common nominative case marker a. Thus, i- is not a case marker.

- dj<em>aljun=anga (4.12)ta uri ki-?ulu-an <AV>arrive=COS OBL.CMN that IRR obtain-head-UVL i-ljaveavek niamadju 💙  $p \le in \ge aka$ ata <u>i-tjurutjaianeanes</u>. GEN.3PL <UVP>call-LOC-PR.place and LOC-PR.place 'They arrived then were ready to head-hunt in the places which are called Ljaveavek and Tjurutjaianeanes' (narrative1)
  - b. *a* <u>i-valangav</u> <u>i-tja-i-navalj</u>

    NOM.CMN LOC-PR.place LOC-SPEC-LOC-right.side

    <u>tja-i-taiwan</u>

    SPEC-LOC-PR.place
    - 'Taitung is in the east of Taiwan.' (sinapayan)
  - c. <u>i-vavua</u>=(a)nan ti lavi.

    LOC-field=CON NOM.PRL.SG PR.M

<sup>&#</sup>x27;Lavi is still in the field.' (sapulju)

The second i- in (4.12b) (which is the first i- in the form i-tja-i-navalj) serves as a locative predicate. It is added on the phrase tja-i-navalj tja-i-taiwan 'the east side of Taiwan', turning it to be a locative verb meaning 'at the east side of Taiwan'. It is not preceded by any markers typically indicating a nominal construction (e.g. case marker, specific location prefix tja-). It serves like i- in (4.12c), We can see that it is marked by the continuative aspectual marker =anan. Thus, i-vavua [LOC-field] 'in the field' is a locative predicate selecting the argument ti lavi.

# 4.3.2 Morphosyntax of spatial and temporal nouns

In this section, we investigate the morphosyntactic behaviors of spatial and temporal nouns and their interaction with the some markers.

A spatial noun may either be used with *i*- '(stative location)' as *i*-likuz 'in back' in (4.13a), with *tja*- '(specific location)' plus *i*-, as *tja-i-viri* 'left [SPEC]' in (4.13b), or with a motion prefix, as *lje-sasav* 'go outside' in (4.13c).

## (4.13) a. *i*-spatial.noun

<u>i-likuz</u> a za tjelu a caucau. LOC-back NOM.CMN that three LIG people

### b. *tja-i*-spatial.noun

tja-i-viritase-sinapayanaSPEC-LOC-leftOBL.CMNbelong.to-Zhengxing.villageNOM.CMNse-ka?aluan.

belong.to-Jialan.village

<sup>&#</sup>x27;Those three people are behind.' (sinapayan)

<sup>&#</sup>x27;Jialan village is in the east (left) side of Zhengxing village.' (sinapayan)

# c. <u>Motion.prefix-spatial.noun</u>

LIG

go

su-?eljev-an a paljing nimadju sa remove-open-UVL NOM.CMN door GEN.3SG then vaik a <u>lje-sasav.</u>

'He opened the door and went outside.' (sinapayan)

toward-outside

A temporal noun is used with ta-/ka-'(past)' or nu-'(irrealis)', as shown in (4.14a) and (4.14b). The two temporal nouns, sangas and vililj, can not be prefixed by ka-/ta-'(past)' or nu-'(irrealis)' without the co-occurrence of tja-i-. In (4.14c), we can see that the temporal adverb ka-tja-i-sangas 'long ago' consists of the temporal noun sangas 'first' and the marker i- and tja-.

# (4.14) a. <u>ta/ka-temporal.noun</u>

na=mekelj=aken i-?unduciu <u>ka-sauni</u>.

PFV=run=NOM.1SG LOC-playground PST-moment

'I just ran in the playground.' (sinapayan)

# b. <u>nu-temporal.noun</u>

vikung, nu-sauni a su=sa~supu-in

PR.M IRR-moment NOM.CMN GEN.2SG=homework

pa-pacun-an=anga tjanuaken.

CAUS-see-IMP.EXCL.UVC=COS OBL.1SG

'Vikung, show me your homework later on.' (sinapayan)

### c. *tja-i-*temporal.noun

ka-tja-i-sangas a cavilj, ini=ka=(a)nan a

when.PST-SEPC-LOC-first LIG year not=not=CON LIG

s < em > an-	tjakudrang	a	i-dralengedreng.
<av>build-</av>	bridge	LIG	LOC-PR.place

<sup>&#</sup>x27;Many years ago, the Lalengleng bridge has still not been built.' (sinapayan)

Table 4.3

Spatial and temporal nouns

Spatial nouns		Temporal nouns	S
Form	Meaning	Form	Meaning
viri	'left side'	tiav	'yesterday/tomorrow'
navalj	'right side'	sauni	'moment'
zaya	'upland; north' <sup>49</sup>	ka-djaman	'morning'
lauz	'lowland; south'	Pezemetj	'evening'
vavav	'top'	maljia	'dawn'
teku	'bottom'	sangas	'first'
?ayav	'front'	vililj	'next'
likuz	'back'		10
sasav	'outside'	nachi V	
tjaladj	'inside'		
ljaving	'side'		

Table 4.3 shows the attested forms of spatial and temporal nouns in my database.

Spatial and temporal nouns may be CVCV-reduplicated, as shown in (4.15). So far, however, I do not have evidence to explain exactly the meaning what reduplication

<sup>49</sup> In terms of the overall distribution of Paiwan tribes, the terrain in the north is higher. Thus, *zaya*, with original meaning of 'upland', may be used to refer to 'north' as well. In contrast, *lauz* denotes 'lowland' or 'south'.

114

conveys.<sup>50</sup> Possibly, reduplication of a spatial noun brings effect of diminution (a shorter distance). That is, in (4.15a), *?aya-?ayav* may convey 'just front'. The function of reduplication in temporal nouns is unclear.

## (4.15) a. <u>CVCV-spatial.noun</u>

taruyungan a caucau dj<em>aljun
group LIG people <AV>arrive
i-2ayav / i-2aya~2ayav ta uma?.
LOC-front / LOC-just~front OBL.CMN house

# b. CVCV-temporal.noun

nu-tiav kadjaman / ka~djama~djaman a uri morning / morning~RED~morning **IRR-tomorrow** LIG **IRR** maljaljuvaljuva?. vaik=aken pacun go=NOM.1SG LIG **OBL.CMN** competition see

Chengchi V

(ka?aluan)

In (4.16), the spatial noun *navalj* 'right side' is prefixed by the body part location prefix *ka-. ka-navalj* means 'right member of bilateral body part' and generally refers to 'right hand'. However, if followed by another body part noun (e.g. *kula* 'leg'), it may refers to the right member of a pair of that body parts. For examples, *ka-navalj a kula* [BOD.LOC-right.side LIG leg] refers to 'right leg'. In the contrast, *ka-viri* [BOD.LOC-left.side] means 'left side of body part'. In addition to body part, *ka-* may also attach to *cedas* 'sunrise' and *ledep* 'sunset'

<sup>50</sup> According to informants, the meaning of the reduplicated spatial noun is nearly identical as that of ordinary forms.

<sup>&#</sup>x27;A group of people arrived in front of the house.' (sinapayan)

<sup>&#</sup>x27;Tomorrow morning I would like to go watching the competition.'

to form *kacedas* 'the location where the sun rises; east side' and *kaledep* 'the location where the sun sets; west side'.

(4.16) *a zua tja-i-<u>ka-navalj</u> tja-i-valjakas*NOM.CMN that SPEC-LOC-BOD.LOC-right.side SPEC-LOC-PR *mavan a sunciu*.

be NOM.CMN chief.of.village

'That (man) in the right-hand side of Valjakas is the chief of village.' (sinapayan)

The spatial nouns may be prefixed by motion verbalizer such as pasa- 'move toward' and k < em > asi- 'come back from [AV]'. In (4.17a), the spatial noun teku 'bottom' is attached to by the verbalizer pasa- 'move toward', forming the motion verb pasa-teku 'move down', which is frequently used as a final verb in serial verb construction. Sometimes, spatial nouns prefixed by pasa- may just be used to express the sense like 'the location toward the direction', as in (4.17b). Here, pasa-vavav is not used as a motion verb meaning 'move up'. It is still used like a spatial noun meaning 'the direction toward the top'. When the verb pasa-spatial noun is nominalized, it is frequently abbreviated as pa-spatial noun, as shown in (4.17c).

# (4.17) a. <u>pasa-spatial.noun 'move toward ...' as a motion verb</u>

ma-cizilj timadju k<em>an cengelj, ta STAT-do.alone NOM.3SG OBL.CMN lunch <AV>eat LIG pasa-teku. ngicu  $\boldsymbol{a}$ zasiveric throw.out LIG move.toward-bottom NOM.CMN DIST peel 'She ate the lunch by herself, and (only) threw the peel (of potatoes) down (to the children).' (narrative2)

# b. pasa-spatial.noun 'location toward ...' as a spatial noun

aicuau?aljay,na=?<em>iladjNOM.CMNPROXLIGmanPFV=<AV>sit.downi-pasa-vavavta?aciljai.LOC-toward-topOBL.CMNstone

'This man is sitting on the stone.' (sapulju)

# c. pa-spatial.noun 'location toward ...' as a spatial noun

aicuadjilungi-pa-vavavNOM.CMNPROXLIGceramic.potLOC-toward-topv < in > cik-antaka?atjuviancarved-UVLOBL.CMNhundred-pacer

'This jar, on the top carved (the totem of) hundred-pacer.' (sinapayan)

Spatial nouns may also be circumfixed by *tjalja--an* '(superlative)', as shown in (4.18). The form *tjalja-vava~vavav-an* serves as an adjectival verb and expresses 'topmost',

(4.18)na=ma?acuvung kasicuayan in.the.old.time NOM.CMN that man LIG PFV=finish ma?inacap tjalja-vava-vavav-an avan ligu namely LIG head-hunt SUPL-RED-top-SUPL LIG glory LIG i-?inaljan.

LOC-village

'In the old time, the man who finished, namely, head-hunting, would be the topmost glory in the tribe.' (narrative1)

### 4.3.3 Specific location prefix tja-

A spatial noun phrase is frequently accompanied by the marker *tja*-, which is analyzed as a common oblique marker in Chang (2006) and as a comparative prefix in Li (2004, 2005) and Sung (2006). However, based on data collected during my fieldtrip, I argue that *tja*- is exclusively used on locative elements to mark specificity and is lexically distinct from the comparative prefix *tja*-.

In (4.19), the spatial noun *lauz* 'south' and the place name *taiwan* 'Taiwan' are both marked by *tja-i-*, indicating that the *tja-* here may not have such comparative meaning.

By comparing (4.20a) and (4.20b), we can see that *tja*- highlights specificity. In (4.20a), nia=2inaljan 'our village' is a specific place. In (4.20b), sema-kungkuan 'go to school', which is not marked by tja-, does not designate a specific school.

# (4.20) a. Specific NP: tja-nia=?inaljan

kinelialiav=anga ma-ngetjez timadju a s<em>afrequently.do=COS AV-come NOM.3SG LIG <AV>gotja-nia=?inaljan.

SPEC-GEN.1PL.EXCL=village

'She has come to our village many times.' (sinapayan)

### b. NP not marked by *tja-: kungkuan*

tjara kilangda a situ sa vaik a must be.obedient NOM.CMN student then go LIG *s*<*em*>*a*-*kungkuan*.

<AV>go-school

'Student must be obedient to go to school.' (sinapayan)

- (4.21)*ka-pi-tja-i-vililj* vaik ma-uma? timadju, a. PST-pi-SPEC-LOC-next LIG go.to-homeplace go NOM.3SG lja?ua vaik ma-cakar timadju a however NOM.3SG LIG go.to-teenager.rally.center go ini ma-tjuma? timadju. ago.to-home LIG not NOM.3SG 'Afterwards, he went back to the tribe. However, he went to the teenager rally
  - b. ?<em>ire?ir a pi-riuk <u>i-sangas</u>.

    <AV>pan-fry LIG put.in-wok LOC-first

    '(recipe) First, pan-fry it in the wok.' (sinapayan)

center, not go home.' (narrative1)

The prefix *tja*- may also be used in the two temporal nouns, *sangas* 'first' and *vililj* 'next', to denote the specificity of time. In (4.22a), the time expressed by the temporal word *ka-pi-tja-i-vililj* 'later [PST.SPEC]' is specific, while (4.22b) is the counterexample. The expression *i-sangas* 'first' does not denote specific time(s).

# 4.3.4 Temporal adverbs

Temporal adverbs include tucu 'now' and those formed by a temporal noun (see Table 4.3 in Section 4.3.2) or an ordinal numeral (see Table 3.4 in Section 3.3) and the time deixis ka-/ta- '(past)' or nu- '(irrealis)'. Common temporal adverbs are shown in Table 4.4.

Table 4.4

Temporal adverbs

Temporal adverbs	Constituent Elements
tucu 'now'	tucu 'now'
ka-tiav / ta-tiav 'yesterday'	ka-/ta-'(past)' + tiav 'yesterday or tomorrow'
nu-tiav 'tomorrow'	nu- '(irrealis)' + tiav 'yesterday or tomorrow'
ka-sauni / ta-sauni 'a moment ago'	ka-/ta-'(past)' + sauni 'moment'
nu-sauni 'a moment later'	nu- '(irrealis)' + sauni 'moment'
ka-ka-djaman / ta-ka-djaman 'the last morning'	ka-/ta-'(past)'+ka-djaman 'morning'
nu-ka-djaman 'the next morning'	nu- '(irrealis)' + ka-djaman 'morning'
ka-?ezemetj / ta-?ezemetj / 'the last evening / night'	ka-/ta-'(past)' + ?ezemetj 'evening'
nu-?ezemetj 'the next evening / night'	nu- '(irrealis)' + ?ezemetj 'evening'
ka-sika-tjelu / ta-sika-tjelu 'the day before yesterday'	ka-/ta-'(past)' + sika-tjelu 'third'
nu-sika-tjelu 'the day after tomorrow'	nu- '(irrealis)' + sika-tjelu 'third'
ka-sika-sepatj / ta-sika-sepatj 'two days before yesterday'	ka-/ta-'(past)' + sika-sepatj 'fourth'
nu-sika-sepatj 'two days after tomorrow'	nu- '(irrealis)' + sika-sepatj 'fourth'
ka-tja-i-sangas / ta-tja-i-sangas 'in the past [SPEC]'	ka-/ta-'(past)' + tja-i-sangas 'before [SPEC]'
nu-tja-i-vililj 'in the future [SPEC]'	nu- '(irrealis)' + tja-i-vililj 'later [SPEC]'

In a clause, the temporal adverb may occur in the initial or in the final, as illustrated in (4.23).

The time deixis ka- /ta- '(past)' denotes preterite, and nu- '(irrealis)' expresses irrealis, which denotes an event that does not happen.

# (4.23) a. ka-/ta-'(past)'

?<em>aljup ti vuvu ta

<AV>hunt NOM.PRL.SG grandparent OBL.CMN

takec <u>ta-?ezemetj.</u>

Formosan.muntjac PST-night

'Grandfather hunted a muntjac last night.' (sinapayan)

# b. *nu*- 'irrealis' (future)

uri vaik=aken a s<em>a-dripung <u>nu-sika-tjelu</u>

IRR go=NOM.1SG LIG <AV>go-Japan IRR-ORD-three

'I will go to Japan the day after tomorrow.' (sinapayan)

### c. <u>nu-</u> 'irrealis'

pakitaga-in ti vikung na lja?edi?edi

remind-UVP NOM.PRL.SG PR.M GEN.CMN neighbor

maya ?iljengal nu-?e-zeme~zemetj

do.not make.much.noise IRR-night-RED~night

'Vikung was warned by the neighbor (that he should) not make so much noise at night.' (sinapayan)

In (4.24a), *ta-?ezemetj* 'last night' expresses the previous night from the time point of utterance. The temporal adverb *nu-sika-tjelu* 'the day after tomorrow' in (4.24b) and *nu-?e~zeme~zemetj* 'at night' in (4.24c) are both irrealis expression. The former denotes a future time, and the latter conveys the time of a frequently occurred event, which may happen in the future.

The temporal adverb *tucu* 'now' expresses the present time, as shown in (4.24a), or serves as a time deixis that points to the time interval that contains the time of utterance, as shown in (4.24b), in which tucu a

### (4.24) *tucu* 'now'

- a. *k*<*em*>*a*~*kan tiamadju* <u>tucu</u>.

  <AV>PROG~eat NOM.3PL now
  - 'They are eating now.' (sinapayan)
- na=vaik=anga buka b. ma-dripung (a) PFV=go=COS LIG go.to-Japan NOM.PRL.SG PR.M LIG kin-tjelu-lj tucu cavilj. MULTI-three-MULTI now year LIG

Other temporal adverbs may also combine with nouns or other expressions of time to form temporal adverbial phrases. In (4.25a), the temporal adverbial phrase is *nutiav a kadjamadjaman* [IRR-tomorrow LIG morning] 'tomorrow morning' headed by the temporal adverb *nutiav* 'tomorrow'. In (4.25b), it is *kasikatjelu a ?ezemezemetj* [PST-third LIG evening] 'night of the day before yesterday' headed by the temporal adverb *kasikatjelu* 'the day before yesterday'. (4.25c) is a temporal adverbial phrase including the exact time *siva milingan* 'nine o'clock'.

<sup>&#</sup>x27;Buka has been to Japan for three times this year.' (sinapayan)

- (4.25) a. nu-tiav a ka~djama~djaman uri
  - IRR-tomorrow LIG morning-RED~morning IRR
  - vaik=aken a s<em>a-kungkuan.
  - go=NOM.1SG LIG <AV>go-school
  - 'Tomorrow morning I will go to school.' (sinapayan)
  - b. na=?<em>aljup ti kama ka-sikatjelu
    - PFV=<AV>hunt NOM.PRL.SG father PST-third
    - a ?e~zeme~zemetj.
    - LIG night~RED~night
    - 'Father hunted in the night of the day before yesterday.' (sinapayan)
  - c. ta-tiav a ?ezemezemetj a siva milingan

Zon Zon University Chengchi University

- PST-yesterday LIG evening LIG nine o'clock
- 'nine o'clock in the last evening' (sinapayan)



## **Chapter 5: Conclusion**

This thesis gives a morphological sketch of North Jinfeng Paiwan and a focus on the deictic expressions.

We show that there are 22 native consonant phonemes and 4 vowel phonemes in North Jinfeng Paiwan. We give a classification of morphological units, including roots, stems, affixes, clitics and reduplicants. In the discussion of lexical categories, we classify roots into two main categories. Roots of the first category are primary nouns. The second category forms verb stems. A derived noun is either [primary noun + nominal affix] or [verb stem + nominal affix]. A verb is either a verb stem, [verb stem + functional affix], or [noun + verbal affix / functional affix]. The functional affixes include voice affixes and valence-adjusting affixes.

Both nouns and verbs may serve as predicates. Two main devices for argument alignments are cases and voices. The former mark the nouns, whereas the latter mark the verbs. Three cases are marked: nominative, genitive and oblique. Voices are separated into four categories: actor voice (AV), patient undergoer voice (UVP), locative undergoer voice (UVL) and circumstantial undergoer voice (UVC).

Based on morphosyntactic features, we classify nouns into the six categories: common nouns, personal nouns, kinship terms, place names, spatial nouns and temporal nouns, and verbs are classified into four categories: dynamic verbs, stative verbs, adjectival verbs and auxiliary verbs. Common constituents in noun phrases include case markers, demonstratives, numerals and adjectival verbs, and those in verb phrases include aspectual markers and the intensifier *aravac* 'very'. Mood and aspect intricately interact with each other. The main distinctions in North Jinfeng Paiwan includes indicative vs. non-indicative mood, realis vs.

irrealis mood and perfective vs. imperfective aspect.

Deictic expressions include personal pronouns, demonstratives and spatiotemporal constructions. There are bound forms and free forms of personal pronouns, which function differently. The former are unmarked, and the latter frequently occur as topicalized elements. There are three demonstratives: *icu* (proximal) vs. z(u)a (distal) vs. sa (visible proximal). Spatiotemporal constructions are commonly concerned with the following deictic markers: *i*-'(stative location)', tja- '(specific location)', ta- /ta- '(past)', ta- '(irrealis)' and tucu 'now'. This thesis especially claims that tja- conveys specificity. The prefixes ta- /ta- '(past)' and tu- '(irrealis)' are added on temporal nouns to form temporal adverbs. tu- 'now' itself is a temporal adverb as well. Temporal adverbs combine with nouns or other expressions of time to form temporal adverbial phrases.

There is still room for improvement in this thesis. First, due to the limited data collected in field research, there are not enough evidences to manifest the morphological distinction between North Jinfeng Paiwan and other Paiwan dialects in this thesis. Second, regarding spatiotemporal expressions, past research focuses on semantics and there is not so much investigation on the morphosyntax. This thesis focuses on the morphosyntactic function in some spatiotemporal expressions, however, the meaning of some prefixes such as *pi*- and reduplication still remain unclear. For deeper understanding, further field study and research is required.

### References

- Aldridge, Edith. (2012). Antipassive and Ergativity in Tagalog. Lingua, 122, 192-203.
- Ang, Uijin. (2018). 論語言地理學的波傳模式與煙火模式:以排灣語重音分布的形成與發展為例 (On the wave model and the firework model of the geolinguistic theory: a case study on the formation and development of stress pattern in Paiwan). *Journal of Taiwanese languages and literature*, 13(1), 53-90.
- Arka, I Wayan. (2003). Voice systems in the Austronesian languages of Nusantara: Typology, symmetricality and undergoer orientation. *Linguistika Indonesia*, 21(1), 113-119.
- Bateman, Nicoleta. (2007). A crosslinguistic investigation of palatalization. PhD dissertation. University of California, San Diego.
- Bima, Daxiwulawan (Tian, Je-yi). (2002). 臺灣的原住民—排灣族 (The indigenous people of Taiwan Paiwan) (1st Ed.). Taipei: Tai-yuan. [in Chinese]
- Blust, Robert. (1999). Subgrouping, circularity and extinction: some issues in Austronesian comparative linguistics. In Zeitoun, Elizabeth, & Li, Paul, Jen-kuei (eds.), Selected Papers From the 8th International Conference on Austronesian Linguistics. Taipei: Academica Sinica.
- Chang, Anna Hsiou-chuan. (2000). 排灣語參考語法 (A Reference Grammar of Paiwan) (Series of Austronesian Languages in Taiwan, Vol. 9). Taipei: Yuan-liou. [in Chinese]
- Chang, Anna Hsiou-chuan. (2006). *A Reference Grammar of Paiwan*. PhD Dissertation. Australian National University, Canberra.
- Chang, Anna Hsiou-chuan. (2016). 排灣語語法概論(臺灣南島語言叢書9) (A Sketch Grammar of Paiwan (Series of Austronesian Languages in Taiwan, Vol. 9)). New Taipei City: Council of Indigenous Peoples. [in Chinese]
- Chang, Henry Yungli. (2004). AF verbs: Transitive, Intransitive, or Both? In Lin Ying-Chin,

- et al (eds.), Papers in honor of Professor Hwang-Cherng Gong on his seventieth birthday (pp.95-120). Taipei: Academia Sinica.
- Chang, Ya-liang. (2008). Traditional and innovation of the pot of Paiwan Jhengsing village as the research of the example on Taitung County. MA Thesis. Nanhua University, Chiayi.
- Chen, Chun-mei. (2009). The phonetics of Paiwan word-level prosody. *Language and Linguistics*, 10(3), 593-625.
- Chen, Kang, and Ma, Jung-sheng. (1986). 高山族語言簡志:排灣語 (A brief Description of the Languages of High Mountain Aborigines: Paiwan). Beijing: 民族 (Min-Tsu Publishing). [in simplified Chinese]
- Cheng, Chung-hua. (2016). 排灣語方言研究 (Studies on Paiwan dialects). PhD Dissertation. Peking University, Beijing.
- Chuang, Joyce Hue-ru. (2002). On the Referential Properties of Noun Phrases in Paiwan.

  MA Thesis. National Chung Cheng University, Chiayi. [in Chinese]
- Dahl, Otto Christian. (1973). *Proto-Austronesian* (Scandinavian Institute of Asian Studies Monograph Series, No. 15). Lund: Studentlitteratur.
- De Busser, Rik. (2009). *Towards a grammar of Takivatan Bunun: Selected Topics*. PhD dissertation. Bundoora, Victoria: La Trobe University.
- De Busser, Rik. (2013). Positional and grammatical variations of time words in Takivatan Bunun. *Language and Linguistics*, 14(6), 963-1008.
- De Busser, Rik. (2017). Spatial deixis, textual cohesion, and functional differentiation in Takivatan Bunun. *Oceanic Linguistics*, 56(1), 89-121.
- De Guzman, Videa P. (1994). *Verbal affixes in Tagalog: inflection or derivation?* Paper presented at Proceedings of the Seventh International Conference on Austronesian Linguistics (7-ICAL), Amsterdam.
- Early, Robert, & Whitehorn, John. (2003). One Hundred Paiwan Texts. Pacific Linguistics

- 542. Canberra: The Australian National University.
- Egli, Hans. (1990). *Paiwangrammarik (Paiwan grammar)*. Wieshaben: Otto Harrassowitz. [in German]
- Egli, Hans. (2002). *Paiwan Wörterbuch (Paiwan Dictionary)*. Wieshaben: Otto Harrassowitz. [in German]
- Ferrell, Raleigh. (1982). Paiwan Dictionary. Canberra: Pacific Linguistics.
- Fillmore, Charles J. (1971). *Lectures on deixis*. University of California, Santa Cruz, Summer Program in Linguistics. CSLI Publications (reprinted 1997).
- Hartmann, R.R.K., and Stork F.C. (1972). *Dictionary of language and linguistics*. London: Applied Science.
- Himmelmann, Nikolaus P. (1999). The lack of zero anaphora and incipient person marking in Tagalog. *Oceanic Linguistics*, 38(2), 231-269.
- Himmelmann, Nikolaus P. (2002). Voices in western Austronesian: an update. In Wouk, Fay and Ross, Malcolm (eds.), *The history and typology of western Austronesian voice* systems (pp.7-16). Canberra: Pacific Linguistics, Australian National University.
- Ho, Dah-An. (1978). A preliminary comparison of five dialects of Paiwan. Bulletin of the Institute of History and Philology of Acadamia Sinica, 49(4), 565-618.
- Huang, Lillian M. (1995). A Study of Mayrinax Syntax. Taipei: Crane Publishing.
- Huang, Shuping. (2016). Time as Space Metaphor in Isbukun Bunun: A Semantic Analysis.

  Oceanic Linguistics, 55(1), 1-24.
- Huang, Wei-chen. (2012). A Study of Verbal Morphology in Puljetji Paiwan. MA Thesis.

  National Tsing Hua University, Hsinchu.
- Ingram, David. (1971). Toward a theory of person deixis. *Paper in Linguistics*, 4(1), 37-53.
- Jiang, Hao-wen. (2006). *Spatial Conceptualizations in Kavalan*. MA thesis. National Taiwan University, Taipei.
- Kadrangian, Ljavuras. (2014). 瑪家鄉志 (A local chronicle of Majia Township). Pingtung:

- Majia Township Office. [in Chinese]
- Kroeger, Paul. (1993). *Phrase Structure and Grammatical Relations in Tagalog*. Stanford, CA: CSLI Publications.
- Kroeger, Paul. (2005). Analyzing Grammar: An Introduction. Cambridge University Press.
- Lee, Amy Pei-jung. (2011). 台東縣排灣族方言調查與比較研究 (A Comparative Study on the Paiwan Dialects in Taitung Area). NSC project report (NSC99-2420-H259-002-2R).
- Lee, Amy Pei-jung. (2012). The segment /w/ and contrastive hierarchy in Paiwan and Seediq.

  Concentric: Studies in Linguistics, 38(1), 1-37.
- Lee, Wei-wei. (2016). *The expression and conceptualization of time in Kavalan*. MA thesis. Universiteit Leiden, Leiden.
- Levinson, Stephen C. (1983). Pragmatics. New York: Cambridge University Press.
- Li, Chao-Lin. (2004). *The Spatial Representations in Paiwan*. MA thesis. National Chung Cheng University, Chiayi.
- Li, Chao-Lin. (2005). Frames of Spatial Reference in Paiwan. *UST Working Papers in Linguistics*, 1, 161-186.
- Li, Chao-Lin. (2004). *The Spatial Representations in Paiwan*. MA Thesis. National Chung Cheng University, Chiayi.
- Li, Paul, Jen-kuei, (1997). A syntactic typology of Formosan language case markers on nouns and pronouns. In Tseng, Chiu-yu (ed.), *Chinese Language and Linguistics IV:*Typological Studies of Languages in China (pp.343-378). Taipei: Academia Sinica.
- Li, Paul Jen-kuei. (2008). The Great Diversity of Formosan Languages. *Language and Linguistics*, 9(3), 523-546.
- Li, Yi-yuan. (1956). A Study on the People of "Tcimo" in the Western Paiwan Tribe. *Bulletin of the Institute of Ethnology*, 1, 55-83.
- Lu, Shun-chieh. (2003). An Optimality Theory Approach to Reduplication in Formosan Languages. MA thesis. National Cheng Chi University, Taipei.

- Lyons, John. (1977). Semantics (Volumes I, II). Cambridge University Press.
- National Development Initiatives Institute. (2006). 金峰鄉志 (A local chronicle of Jinfeng Township). Taitung: Jinfeng Township Office. [in Chinese]
- Pan, Chia-jung. (2007). *The Grammatical Realization of Temporal Expressions in Tsou*. MA thesis. National Chung Cheng University, Chiayi.
- Pan, Shian-yang. (2017). 核心部落、核心家族、人群互動關係與整合:近年恆春半島族群文化活動的參與觀察 (Core tribes, core families, interaction and integration of groups: the participation observation of cultural activities of Hengchun Peninsula in recent years). 民族學研究所資料彙編 (Field Materials, Institute of Ethnology, Academia Sinica), 25, 45-98.
- Reid, Lawrence A. (1992). On the development of the aspect system in some Philippine languages. *Oceanic Linguistics*, 31, 65-91.
- Reid, Lawrence A., and Liao, Hsiu-chuan. (2004). A Brief Syntactic Typology of Philippine Languages. *Language and Linguistics*, 5(2), 433-490.
- Ross, Malcolm D. (1995). Reconstructing Proto-Austronesian verbal morphology: Evidence from Taiwan. In Li, Paul Jen-kuei, Tsang, Cheng-hwa, Huang Ying-kuei, Ho, Dah-an, and Tseng, Chiu-yu (eds.), *Austronesian Studies Relating to Taiwan* (pp.727-791).

  Symposium Series of the Institute of History and Philology, Academia Sinica, No. 3.

  Taipei: Academia Sinica.
- Ross, Malcolm D. (2002). The history and transitivity of western Austronesian voice and voice-marking. In Wouk, Fay and Ross, Malcolm D. (eds.), *The History and Typology of Western Austronesian Voice Systems* (pp.17-62). Canberra: Pacific Linguistics, Australian National University.
- Ross, Malcolm D. (2006). Reconstructing the Case-marking and Personal Pronoun Systems of Proto Austronesian. In Chang, Henry Y., Huang, Lillian M., and Ho, Dah-an, *Streams Converging into an Ocean: Festschrift in Honor of Prof. Paul Jen-kuei Li on his* 70<sup>th</sup>

- Birthday (pp.521-563). Taipei: Academia Sinica.
- Ross, Malcolm D. (2009). Proto Austronesian verbal morphology: A reappraisal. In Adelaar, Alexander and Pawley, Andrew (eds.), *Austronesian Historical Linguistics and Culture History: A Festschrift for Robert Blust* (pp.295-326) Pacific Linguistics 601. Canberra: Pacific Linguistics, Australian National University.
- Ross, Malcolm D. (2013). The argument indexing of Early Austronesian verbs: a reconstructional myth? In Haug, Dag T. T. (ed.), *International Conference on Historical Linguistics ICHL 2013* (pp.257-279). Amsterdam: John Benjamins.
- Ross, Malcolm D., and Teng, Stacy Fang-ching. (2005). Formosan languages and linguistic typology. *Language and Linguistics*, 6(4), 739-781.
- Senft, Gunter. (2004). *Deixis and Demonstratives in Oceanic Languages*. Pacific Linguistics 562. Canberra: Pacific Linguistics.
- Starosta, Stanley. (1997). Formosan clause structure: transitivity, ergativity, and case marking. In Tseng, Chiu-yu (ed.), *Chinese Languages and Linguistics IV: Typological Studies of Languages in China* (pp.125-154). Taipei: Academia Sinica.
- Sung, Chia-Hsing. (2006). *Temporal Expressions in Paiwan*. MA thesis. National Chung Chen University, Chiayi.
- Taiwan Historica. (1951). 臺灣省山地施政要點審查報告案 (Review Report on Politics on Mountain Indigenous Area of Taiwan Province) (Rep. No. 00501018404). Retrieved from <a href="http://ds3.th.gov.tw/ds3/app005/list3.php?ID1=00501018404">http://ds3.th.gov.tw/ds3/app005/list3.php?ID1=00501018404</a>
- Tan, Chang-guo. (2007). 排灣族 (Paiwan). Taipei: San Min.
- Tang, Chih-chen. (2002). On Nominalizations in Paiwan. *Languages and Linguistics*, 3(2), 283-333.
- Tang, Chih-chen, Chang, Henry Yung-li, and Ho, Dah-an. (1998). On Noun Phrase Structures in Paiwan. *Tsing-Hua Journal of Chinese Studies, New Series*, 28(3), 335-384.
- Teng, Stacy Fang-ching. (2016). 卑南語語法概論(臺灣南島語言叢書8) (A Sketch

- Grammar of Paiwan (Series of Austronesian Languages in Taiwan, Vol. 8)). New Taipei City: Council of Indigenous Peoples. [in Chinese]
- Tsai, Pei-shu. (2003). *The Structrue of Spatial Expressions in Saisiyat*. Paper presented at the 17th Pacific Asia Conference on Language, Information and Computation, Sentosa, Singapore.
- Tseng, Meylysa. (2003). *Reduplication as Affixation in Paiwan*. MA Thesis. National Chung Chen University, Chiayi.
- Ogawa, Naoyoshi, and Asai, Erin. (1935). 原語による臺灣高砂族傳說集 (The myths and traditions of the Formosan native tribes, with texts and notes). Tokyo: Toko Shoin. [in Japanese]
- Utsurikawa, Nenozo, Miyamoto, Nobuto, and Mabuchi, Toichi. (1935). 臺灣高砂族: 系統所屬の研究 (The Formosan Native Tribes: A Genealogical and Classificatory Study).

  Tokyo: Toko Shoin. [in Japanese]
- VanDam, Mark. (2004). Word Final Coda Typology. *Journal of Universal Language*, 5, 119-148.
- Wolff, John U. (2010). *Proto-Austronesian phonology with glossary*. New York: Cornell Southeast Asia Program Publications.
- Wu, Sin-huei. (2010). *Negation in Southern Paiwan*. MA thesis. National Kaohsiung Normal University, Kaohsiung.
- Yah, Shan-bao. (2013). A study of "Southern Barbarian Event" regarding Paiwan tribe during Japanese colonization. PhD Dissertation. National Cheng Chi University, Taipei. [in Chinese]
- Yeh, Stella Shih-chi. (2011). *Issues in Paiwan Phonology*. MA Thesis. National Tsing Hua University, Hsinchu.
- Zeitoun, Elizabeth. (2005). Tsou. In Adelaar, Alexandar and Himmelmann, Nikolaus P. (eds.), The Austronesian languages of Asia and Madagascar (pp.259-290). London: Routledge.

- Zeitoun, Elizabeth. (2009). Reassessing the reconstruction of plural affixes in PAn: Evidence from the Formosan languages. Adelaar, Alexander, and Pawley, Andrew (eds.), *Austronesian historical linguistics and culture history: a festschrift for Bob Blust* (pp.359-372). Pacific Linguistics 601. Canberra: Pacific Linguistics, Australian National University.
- Zeitoun, Elizabeth, Huang, Lillian M., Yeh, Marie M., Chang, Anna H., and Wu, Joy J. (1996). The temporal, aspectual, and modal systems of some Formosan languages: a typological perspective. *Oceanic Linguistics*, 35(1), 21-56.
- Zeitoun, Elizabeth, and Huang, Lillian M. (1997). Toward a typology of tense, aspect and modality in the Formosan languages: a preliminary study, In Tseng, Chiu-yu (ed.), *Chinese languages and linguistics IV: Typological studies of languages in China* (pp.595-618). Symposium Series of the Institute of History and Philology, Academia Sinica No. 2. Taipei: Academia Sinica.
- Zeitoun, Elizabeth, Huang, Lillian M., Yeh, Maire M., Wu, Joy J., and Chang, Anna H. (1999). A typological study of pronouns in the Formosan languages. In Wang, Samuel H., Tsao, fang-fu and Lien, Chin-fa (eds.), *Selected Papers from the 5<sup>th</sup> International Conference on Chinese Linguistics* (pp. 165-198). Taipei: Crane Publishing.
- Zeitoun, Elizabeth, and Wu, Chen-huei. (2006). Reduplication in Formosan languages. In Chang, Henry Y., Huang, Lillian M., and Ho, Dah-an, *Streams Converging into an Ocean: Festschrift in Honor of Prof. Paul Jen-kuei Li on his 70<sup>th</sup> Birthday* (pp.97-142). Taipei: Academia Sinica.
- Zeitoun, Elizabeth, and Teng, Stacy Fang-ching. (2009). From ki-N 'get N' in Formosan languages to ki-V 'get' V-ed' (passive) in Rukai, Paiwan and Puyuma. In Evans, Bethwyn Evans (ed.), *Discovering History through Language: Papers in Honour of Malcolm D. Ross* (pp.479-500). Pacific Linguistics 605. Canberra: The Australian National University.

# Appendix: Texts of Narratives

The two narratives shown below are both retellings of written stories, that is, the reteller viewed the written text and paraphrased it in his own words.

The story reteller is Mazeljzelj Curimudju, and the collected location is in *sinapayan* (正興村). For privacy reasons, the original tellers for the written stories are confidential, and the original collected location is in *sinapayan* as well. Both of the two stories are widely rumoured in the region of Taimali River.

#### Narrative 1

Title: Mother who shows favouritism

- (1) izua za mar(e)-cekelj.

  EXIST DIST RECP-spouse

  'There were a husband and a wife.'
- (2) a za u?aljay ti pulelengan.

  NOM.CMN DIST man NOM.PRL.SG PR.M

  'The husband is called Pulelengan.'
- (3) a za vavayan ti maukaikai.

  NOM.CMN DIST woman NOM.PRL.SG PR.F

  'The wife is called Maukaikai.'

(4)	tiamadju,	pu-aljak	tu	ma-drusa	ta
	NOM.3PL	produce-child	OBL.CMN	CL.H-two	OBL.CMN
	u~?alja~?aljay.				
	man~RED~man				
	'They have two boys.'				

- (5) a zua tja-vulung ti kuljeljeljelje.

  NOM.CMN DIST COMP-elder NOM.PRL.SG PR.M

  'The elder (brother) is called Kuljeljeljelje.'
- (6) a zua tja-ljak ti puljaljuyan.

  NOM.CMN DIST COMP-young NOM.PRL.SG PR.M

  'The younger (brother) is called Puljaljuyan.'
- (7) a za ngadan na ?inaljan p<in>akaNOM.CMN DIST name GEN.CMN tribe <UVP>calli-tjurutjaianeanes.

  LOC-PR.place

  'The name of their tribe is called Tjurutjaianeanes.'
- (8) a ngadan na uma? lja-pakedavay.

  NOM.CMN name GEN.CMN house belong.to-PR

  'Their family name is Pakedavay.'

- (9) ki-san-?<em>aljup a za kama niamadju.

  REF-do-<AV>hunt NOM.CMN DIST father GEN.3PL

  'Their father hunts for living.'
- (10) akina ki-san-k<em>esa avan nu ata NOM.CMN mother namely REF-do-<AV>cook and nu parimasudj i-tjuma?. clean LOC-house '(Their) mother, cooks an cleans the house.'
- (11) palamu sa ma-?a-cuvung=anga a zua mar(e)-kaka.

  soon then AV-grow.up=COS NOM.CMN DIST RECP-sibling
  'Soon, the boys have already grown up to be adults.'
- (12) ka-sicuayan u?aljay za a avan NOM.CMN when.PST-ancient.time DIST man ( LIG namely ma-?inacap tjalja-vava~vavav-an а ligu а LIG AV-head.hunt SUPL-RED~top-SUPL glory LIG LIG i-?inaljan.

LOC-tribe

'In the ancient time, the man finishing, that is, head-hunting, is the highest glory in the tribe.'

(13) *nu* ma-ngetjez a na=ki-?ulu ka-palisi-an

when.IRR AV-come LIG PFV=obtain-head genuine-ritual-genuine

sa si-zian i-tja-mamazangiljan.

then UVC-dance LOC-SPEC-nobles

'When coming back with obtained head, there will be a ritual and a dance celebration in the house of chieftain.'

(14) *izua* ?adav, pu-ita ti za **EXIST** NOM.CMN day NOM.CMN DIST NOM.PRL.SG once kuljeljeljelje pa-se-malav na-ma-?a-cuvu~cuvung ta za declare PR.M young.people OBL.CMN DIST i-?inaljan 'nu-tiav a kadjaman uri LOC-tribe IRR-tomorrow LIG morning **IRR** ma-?epu~?epu=itjen i-cacavalj i-zua sa AV-RED~gather=NOM.1PL.INCL LOC-there LOC-gateway.of.tribe then ma-pasa-i-ljaveavek' ma-?inacap=itjen uri а IRR AV-head.hunt=NOM.1PL.INCL LIG go.to-move.toward-LOC-PR.place aya ivu timadju. NOM.3SG say say

'One day, Kuljeljeljelje told the young guys of the tribe, "tomorrow we will gather at the resting stop in the gateway of the tribe and then go head-hunting in Ljaveavek", he said'

(15) 2a*dj*<*em*>*aljun i-cacavalj* tiamadju si-kin-cenge~cengelj=anga when.PST <AV>arrive LOC-gateway.of.tribe NOM.3PL si-kin-noon=COS sala~saladj mare-kaka. a zua zua na RED~partner **RECP-sibling** NOM.CMN DIST GEN.CMN DIST 'It is already noon when partners of the two brothers arrived at the resting stop in gateway of the tribe.'

(17) a*tja-vulung* papa za na prepared.food COMP-elder NOM.CMN DIST GEN.CMN *p*<*in*>*aluveluv-an* ta sasipetj. packed-UVL OBL.CMN black.insect 'The food for the elder (brother) is packed with black insects (which looks not so good).'

na (18) apapa za a za prepared.food **GEN.CMN** NOM.CMN DIST NOM.CMN DIST tja-lja~ljak p<in>aluveluv-an rinida taOBL.CMN COMP-RED~young packed-UVL meat.slice Palev. а

LIG

fat

'The food for the younger (brother) is packed with slice of fat (which looks good).'

(19) ata~?alja~?aljan maka-kan=anga, lja?ua zua villager~RED~villager however NOM.CMN DIST CPL-eat=COS ti kuljeljeljelje k < em > an. ini azaNOM.PRL.SG PR.M NOM.CMN DIST not LIG <AV>eat '(All) the partners finished eating, however, Kuljeljeljelje did not eat.'

(20) atja-lja~ljak za pacun ta COMP-RED~young NOM.CMN DIST LIG see OBL.CMN kaka tja-vulung, ini k<em>an palavai sa sibling COMP-elder palavai then not LIG <AV>eat timadju auta.

NOM.3SG as.well.as

'The younger (brother) saw his elder brother not eating. (After that), he did no eat as well'

ki-?ulu-an (22) dj < em > aljun = anga<AV>arrive=COS obtained-head-UVL OBL.CMN DIST **IRR** niamadju  $p \le in \ge aka$ *i-ljaveavek i-tjurutjaianeanes*. ata GEN.3PL <UVP>call-LOC-PR.place and LOC-PR.place 'They arrived then were ready to head-hunt in the places which are called Ljaveavek and Tjurutjaianeanes'

(23) ka pake-tjezuanga tiamadju c<em>ikel a
when.PST pake-enuogh NOM.3PL <AV>return.back LIG

<sup>&#</sup>x27;Kuljeljeljelje declared to the partners, "Let's go! For head-hunting!"

pasa-?inaljan a s<em>a-cacavalj i-kinaljan sa
move.toward-tribe LIG <AV>go.to-gateway.of.tribe LOC-tribe then
kaivan-an

dinner-UVL

'When they thought the heads are enough, they returned back to the tribe and went to the resting stop at the gateway of tribe to have dinner.'

- (24) ?a maka-kan tiamadju vaik a ma-tjuma?.

  when.PST CPL-eat NOM.3PL go LIG go.to-house

  'They (the partners) completed eating and go home.'
- (25) ini kuljeljeljelje i-cacavalj kamayan ini a LOC-gateway.of.tribe not PR.M still LIG not ma-tjuma?. *c*<*em*>*ikel* <AV>return.back LIG go.to-house

'Kuljeljeljelje still stayed in the resting stop in the gateway of the tribe, not returning back home.'

?<em>aung kaka! (26) *ti* puljaljuyan 'ari, then be.together.with NOM.PRL.SG PR.M <AV>cry sibling vaik-i s < em > a - tjuma?aya ki-?aung timadju a go-IMP.INCL.AV <AV>go.to-house REF-cry LIG NOM.3SG say kaka *tja-vulung* ta OBL.CMN sibling COMP-elder

<sup>&#</sup>x27;Puljaljuyan cried out to his elder brother, "Brother! Let's go home together!""

NOM.3SG

<sup>&#</sup>x27;When finished saying, starting from the leg, Kuljeljeljelje exuviated into a snake.'

<sup>&#</sup>x27;Puljaljuyan saw and cried to his brother, "Don't be like that!""

(30) *lja?ua tjakuda-in masan-?atjuvi=anga a za*however be.helpless-UVP turn.into-snake=COS NOM.CMN DIST

kaka tja-vulung.

sibling COMP-elder

'However, (the fact) that his elder brother has become a snake is unchangeable.'

(31) *ka-pi-tja-i-vililj* vaik ma-uma? timadju, when.PST-pi-SPEC-LOC-next go.to-homeplace NOM.3SG LIG go lja?ua vaik ma-cakar ini timadju however NOM.3SG go.to-teenager.rally.center go LIG not ma-tjuma? timadju. go.to-house LIG NOM.3SG

'Puljaljuyan then went nack to the tribe, but he went to the teenager rally center rather than back home'

(32) 2amaljia ma-cacavali sa when.PST go.to-gateway.of.tribe dawn then karutailj pacun-i ni NOM.CMN see-IMP.INCL.AV DIST cup.name GEN.PRL.SG kuljeljeljelje, neka=(a)ngazaljum. nu PR.M not.exist=COS nu water

'At day break, Puljaljuyan went to the resting stop in the gateway of the tribe and then saw that the cup "Karutailj" had no water already.'

(33) ?a se-langeda a kama niamadju ini=anga when.PST involuntarily-hear.of LIG father GEN.3PL not=COS

k<em>an kinsa sa patje-setjekec ta meal then forever-stick.on <AV>eat OBL.CMN OBL.CMN sekam kama. za a mat.made.of.shell.ginger.stem father DIST NOM.CMN

'Their father learned of this and also fasted, until died (sticked on the mat forever).'

#### Narrative 2

#### Title: Vicious stepmother

- (1) *izua* mar(e)-cekelj. za
  - RECP-spouse **EXIST** DIST
  - 'There were a husband and a wife.'
- (2) *a* pulelengan. u?aljay

NOM.CMN DIST man NOM.PRL.SG

'The husband is called Pulelengan.'

(3) a mautjukutjuku. za vavayan

NOM.CMN DIST woman NOM.PRL.SG

'The wife is called Mautjukutjuku.'

(4) *lja?ua* ti pulelengan, izua za however NOM.PRL.SG NOM.CMN DIST PR.M **EXIST** 

ma-drusa kaljakan ma-drusa u~?alja~?aljay.

man~RED~man CL.H-two stepchild CL.H-two LIG

'However, Pulelengan had two marriages and there were two boys who were given birth to by the ex-wife.'

- (5) *izua* ita *Padav* ti mautjukutjuku kacu-in PR.F bring-UVP **EXIST** one day NOM.PRL.SG mare-kaka ki-vurati. za ma-vavua uri a RECP-sibling go.to-field obtain-sweet.potato NOM.CMN that **IRR** saka i-vavua=(a)nga k < em > esacengelj ta а would.like.to LOC-field=COS <AV>cook OBL.CMN lunch LIG vurati i-tja-ta?eta? ni sa pasa-vavav move.toward-top LOC-SPEC-pavilion sweet.potato then GEN.PRL.SG 'One day, (that) Mautjukutjuku brought the boys to the mountain (for working, that is,) to pick sweet potatoes and would like to cook sweet potatoes as lunch in the mountain. Then, Mautjukutjuku (brought the cooked potatoes and) went upon the pavilion.'
- (6) ma-cizilj timadju  $k \le em \ge an$ cengelj, ta STAT-do.alone **OBL.CMN** NOM.3SG LIG lunch <AV>eat ngicu si-veric pasa-teku. a za a LIG NOM.CMN that peel throw.out move.toward-bottom 'She ate the lunch by herself and (only) threw the peel (of potatoes) down (to the children).'
- (7) a kaka tja-vulung ljulju-in za a NOM.CMN DIST sibling COMP-elder pick.up-UVP NOM.CMN ngicu sualapi lju~sepi~sepit zua sa a zua take.off thin~RED~thin DIST peel then NOM.CMN DIST kaka a vurati sa pa-kan-an ta LIG sweet.potato then CAUS-ate-UVL OBL.CMN sibling

tja-lja~ljak.

COMP-RED~young

'(The elder brother didn't want his younger brother to get hungry.) The elder brother picked up the peel and took the thin pulp of sweet potato (adjacent to the peel) and then fed the younger brother.'

- (8) *a zua ngicu kan-en nimadju*.

  NOM.CMN DIST peel eat-UVP GEN.3SG

  'The elder brother ate the peel.'
- (9) ka ma-ledep=anga *Padav* vaik ma-tjuma? when.PST STAT-go.down=COS go.to-house LIG sun go kina, tjaulan а zua sa a mother immediately.do NOM.CMN then DIST LIG pi-kavuavuan ma-drusa aljak. zua put.in-field NOM.CMN DIST CL.H-two child

'When the sun went down, the mother went back home, keeping the children staying in the mountain.'

(10) kama-sulem=anga tja-vulung za a when.PST STAT-dark=COS NOM.CMN DIST COMP-elder LIG kaka *?ivu* ʻtjakuda-in ka ma-tucu: sibling be.helpless-UVP LIG STAT-such when.PST say sengacan=itjen ni kina. pai!' not.be.cared=NOM.1PL.INCL GEN.PRL.SG mother well

<sup>&#</sup>x27;When the sky got dark, the elder brother said so, "it is regrettable when we are not

cared by mother, well ..."

(11) a icu a sialja, uri tja=papamav-en

NOM.CMN PROX LIG strap IRR GEN.1PL.INCL=half-UVP

sa uri masan-tja=iku

then IRR turn.into-GEN.1PL.INCL=tail

'The strap, would be divided into two parts by us, then would turn into our tails.'

(12) a icu a itung, avan auta uri

NOM.CMN PROX LIG clothes namely as.well.as IRR

tja=papamav-en sa uri masan-tja=palalj.

GEN.1PL.INCL=half-UVP then IRR turn.into-GEN.1PL.INCL=wing

'The clothes would, also, be divided into two parts by us and would turn into our wings'

(13) tia?en, a tja-vulung, paka-ti tjugelui

NOM.1SG NOM.CMN COMP-elder call-NOM.PRL.SG bird.name

aya-u=anga.

say-IMP.EXCL.AV=COS

'I, the elder (brother), is called Tjugelui.'

(14) tisun, a tja-lja~ljak, uri a ti

NOM.2SG NOM.CMN COMP-RED~young IRR LIG NOM.PRL.SG

ngangai a su=ngadan.

bird.name NOM.CMN GEN.2SG=name

'You, the younger (brother), is called Ngangai as your name.'

maka-vuki~vukid, (15) atja-vulung uri COMP-elder leave.for-RED~remote.mountain NOM.CMN IRR tja-lja~ljak maka-tja-nasaljaveljav. zua a COMP-RED~young IRR leave.for-SPEC-low.altitude.region NOM.CMN DIST 'The elder (brother) will fly to the remote mountain. The younger (brother) will fly to the low altitude region.'

(16) nu mecevung=itjen, kitjen

when.IRR meet.by.chance=NOM.1PL.INCL REF.1PL.INCL

inudrasan=anga mare-kaka.

have.a.lot.of.white.hairs=COS RECP-sibling

kivada? s<em>a-tjuma? (17) kakina, when.PST <AV>go.to-house NOM.CMN DIST mother ask u?aljay: 'inu=anga cekeli a za man where=COS NOM.CMN DIST NOM.CMN kakedrian?' childern

(18) 'ika=ken pa-?enece=anga, *ku=tjinaulan* remember=COS GEN.1SG=leave not=NOM.1SG LIG LIG pi-vavua' kina. aya ivu za put.in-field say say NOM.CMN DIST mother "I didn't remember. I left and put (them) in the field." said the mother.'

<sup>&#</sup>x27;When we meet again, we brothers (ourselves) will already have a lot of white hairs.'

<sup>&#</sup>x27;When the mother went back home, the (her) husband ask, "Where are the children?""

<sup>&#</sup>x27;The wife ran away into the wooden box and said, "I will now turn into a mouse. I will eat all those your food stored in the box!""