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Linking Time, Space, and Statements in One GIS System: A Use Case of Studying Individuals' Biographies

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Date: 2020

Group(s): [DH2020](#)

Subject(s): [Biography](#), [Chinese studies](#), [Data visualization](#), [Natural language processing](#), [Spatial humanities](#)

Item Type: [Video](#)

Tag(s): [Digital biography](#), [Geographic Information Systems](#), [geohumanities](#), [Spatial & Spatio-Temporal Analysis](#)

Permanent URL: <http://dx.doi.org/10.17613/c2ng-r737>

Abstract: In this research, we focus on spatial analysis and natural language processing (NLP) techniques to find two elements: "Where (Location)" and "When (Time)" in the biographical data. By linking and showing the extracted information via a GIS system, we built a spatiotemporal system for scholars to study historical issues from different perspectives. We believe that showing placenames on a GIS interface and relevant statements about the placenames on a time-related scale can provide helpful hints to complex research work.

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