

## Curriculum Vitae

Yuqi Chen

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### Research Interests

Digital Humanities, AI for Humanities, Quantitative History & Archaeology,  
Social Network Analysis, Text Mining, Cultural Evolution, Early China Studies

### Education

2022— 2023	<b>Visiting Scholar</b> <b>Institution:</b>	Institute for Quantitative Social Science Harvard University
2019— 2015 ( <i>expected</i> )	<b>Degree:</b> <b>Institution:</b> <b>Dissertation:</b>	PhD in History Peking University A Social Network Analysis of Noble Families in Early China (1600 BCE - 256 BCE)
2017— 2019	<b>Degree:</b> <b>Institution:</b>	Master in History Peking University
2012— 2017	<b>Degree:</b> <b>Institution:</b> <b>GPA:</b>	Bachelor in History Peking University 3.67 of 4.00 (Ranking: 3/56)

### Affiliation

2023— <i>Present</i>	<b>Position:</b> <b>Institution:</b>	Associate (Part-time) Department of Human Evolutionary Biology Harvard University
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### Work Experience

2022— 2022	<b>Position:</b> <b>Institution:</b> <b>Summary:</b>	Game Design Intern Tencent Integrate history into games
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### Professional Service

- Reviewer for *Nature Human Behaviour* (Springer Nature Publishing)
- Reviewer for *Humanities and Social Sciences Communications* (Springer Nature Publishing)
- Reviewer for *Digital Scholarship in the Humanities* (Oxford University Press)

### Media Coverage

- The work of historical-psychological text analysis using AI technology has been covered by DeepTech & MIT Technology Review China.

## Publications

### Peer-Reviewed Papers

- R1 **Chen, Y.**, Li, S., Li, Y., & Atari, M. (2024). Surveying the Dead Minds: Historical-Psychological Text Analysis with Contextualized Construct Representation (CCR) for Classical Chinese. In Y. Al-Onaizan, M. Bansal, & Y.-N. Chen (Eds.), *Proceedings of the 2024 Conference on Empirical Methods in Natural Language Processing* (pp. 2597–2615). Association for Computational Linguistics. <https://aclanthology.org/2024.emnlp-main.151>
- R2 **Chen, Y.**, Li, Y., Zhou, K. Z., Fu, X., Liu, L., Bao, S., Sui, D., & Zhang, L. (2024). Global Public Sentiment on Decentralized Finance: A Spatiotemporal Analysis of Geo-tagged Tweets from 150 Countries. *CCF Annual Conference on Computational Economics 2024*. <https://arxiv.org/abs/2409.00843>
- R3 **Chen, Y.**, Shang, W., & Chen, S. (2024). Pure Conversation with AI: Building Generative Agents for Reenacting Debates in History. *The Annual Conference of the Alliance of Digital Humanities Organizations 2024*. <https://doi.org/10.5281/zenodo.13761079>
- R4 **Chen, Y.** & Wang, L. (2022). The Great Transformation of the Clan System in Early China: A Social Network Analysis of Clan-sign Inscriptions from 1300 BC to 900 BC. In *The Book of Abstracts of Digital Humanities 2022* (pp. 440–444). <https://dh2022.dhii.asia/dh2022bookofabsts.pdf#page=440>
- R5 Hong, Z., & **Chen, Y.** (2024). Persuading the Emperors: A Quantitative Historical Analysis of Political Rhetoric in Traditional China. *Humanities and Social Sciences Communications*, 11(1), 840. <https://doi.org/10.1057/s41599-024-03164-5>
- R6 Shang, W., **Chen, Y.**, Dubnicek, R., Cordell, R., & Downie, J. S. (2024). Interplay Between Materiality and Content in Book History: Evidence from 16th–19th Century Chinese and English Books. *The Annual Conference of the Alliance of Digital Humanities Organizations 2024*. <https://doi.org/10.5281/zenodo.13761079>
- R7 Wei, T., & **Chen, Y.** (2023a). A Methodology for Building Domain Ontology of Cultural Heritage. *Digital Scholarship in the Humanities*. <https://doi.org/10.1093/lhc/fqad045>
- R8 Wei, T., & **Chen, Y.** (2023b). A Ding Ontology of Chinese Bronze. *Journal on Computing and Cultural Heritage*, 16(4). <https://doi.org/10.1145/3609484>
- R9 Shang, W., Chen, S., **Chen, Y.**, & Diesner, J. (2023). Structural Characteristics in Historical Networks Reveal Changes in Political Culture: An Example From Northern Song China (960–1127 C.E.). In *Proceedings of the Computational Humanities Research Conference 2023* (pp. 263–273). <http://ceur-ws.org/Vol-3558/paper2567.pdf>

### Working Papers

- W1 **Chen, Y.**, Shang, W., Wang, H., Zhang, S., & Bol, P. K. (2024). Geocoding the Past World: Unearthing Coordinates of Early China from Texts Using Generative AI. *International Journal of Geographical Information Science*. (under review)
- W2 **Chen, Y.**, Slingerland, E., Hong, Z., Fu, X., Wang, H., Schulz, J., Bol, P., Henrich, J., & Atari, M. (2024). Geography, Climate, Kinship and the Dynamics of Psychological Change in China over Two Millennia (in progress)
- W3 Dillion, D., LIU, Y., **Chen, Y.**, Watts, D., Joseph, Zhao, C., Baral, S., Buckner, W., Atari, M., Kteily, N., & Jackson, J. C. (2024). Prejudice Tied to State Centralization in Historical Societies. <https://doi.org/10.31234/osf.io/zxuth>

## Selected Presentations

- P1 **Chen, Y.** *Historical Minds and Artificial Intelligence: How AI Helps Rediscover Ancient Minds*. Frontiers in Chinese Studies Series, Bucknell University. Sep 18, 2024.
- P2 **Chen, Y.** *Surveying the Dead Minds: Historical Text Analysis Unveiling Psychological Dynamics Within Chinese Culture Across Two Millennia*. School of Chinese, The University of Hong Kong. Jun 3, 2024.
- P3 **Chen, Y.** *Geocoding the Past World: Unearthing Coordinates of Early China from Texts Using Large Language Models*. Chinese Historical Databases: Sources, Methods, Prospects, The Hong Kong University of Science and Technology. January 11, 2024.
- P4 **Chen, Y.** “Pure Conversation” with AI: Building Generative Agents for Humanities Studies. The 4th Tsinghua International Forum on Digital Humanities, The Hong Kong University of Science and Technology and Tsinghua University. December 8, 2023.
- P5 **Chen, Y.** *From Question to Methodology: Digital Humanities and Humanities Computing*. Breaking Boundaries in the Age of Technology: Defining New Liberal Arts and Digital Humanities, The 8th Weiming Roundtable, Peking University. November 5, 2023.
- P6 **Chen, Y.** *Scholar Presentations: China Biographical Database Project (CBDB)*. Institute for Quantitative Social Science, Harvard University. October 7, 2023.
- P7 Wei, T., **Chen, Y.**, & Wang, L. *Ontology-Driven Digital Humanities Research and Application*. School of Information Management, Nanjing University. November 10, 2021.

## Software Developments

2024	<b>Program:</b>	HIS-GEO
	<b>Role:</b>	Sole Developer
	<b>Link:</b>	<a href="https://github.com/yukiyuqichen/HIS-GEO">https://github.com/yukiyuqichen/HIS-GEO</a>
	<b>Description:</b>	A library to extract historical toponyms from texts, geocode and visualize the results on maps.
2023	<b>Program:</b>	OCR Toolkit
	<b>Role:</b>	Sole Developer
	<b>Link:</b>	<a href="https://github.com/yukiyuqichen/OCR-Toolkit">https://github.com/yukiyuqichen/OCR-Toolkit</a>
	<b>Description:</b>	A toolkit for Optical Character Recognition (OCR) with graphical user interface, including image preprocessing and text recognition. Works out of the box.
2023	<b>Program:</b>	CHAR
	<b>Role:</b>	Primary Contributor
	<b>Link:</b>	<a href="https://github.com/yukiyuqichen/CHAR">https://github.com/yukiyuqichen/CHAR</a>
	<b>Description:</b>	An open-source Python library for converting Chinese character variants to standard simplified or traditional characters.

## Research Experience

- October 2022—  
Present*
- Project:** Historical Psychology  
**Institution:** Harvard University, University of Massachusetts Amherst  
**PI:** Joseph Henrich, Mohammad Atari  
**Summary:**
- The leading author of a paper that studies the spatial variation and temporal evolution of moral values in historical China by NLP (natural language processing) methods
  - Constructed a corpus containing over 10,000 historical books, and conducted data cleaning and preprocessing, including automatic punctuation, to all texts using deep learning models
  - Trained deep learning models specific to psychology for measuring moral values in classical Chinese texts
  - Conducted spatial analysis and time series analysis
- January 2023—  
June 2024*
- Project:** Explain Atheism  
**Institution:** Queen's University Belfast, University of Macau  
**Funded by:** John Templeton Foundation  
**PI:** Jonathan Lanman, Ze Hong  
**Summary:**
- Constructed an open-access dataset of Chinese newspapers and periodicals related to religious skepticism during the late Qing and early Republic era
  - Applied OCR techniques for digitization of newspapers and periodicals, and NLP techniques for analysis and annotation of classical Chinese texts
  - Organized a coder team, trained the coders to be skilled in manual text annotation, and implemented efficient coding processes and quality control measures
- October 2022—  
October 2023*
- Project:** China Biographical Database Project  
**Institution:** Harvard University  
**PI:** Peter K. Bol  
**Summary:**
- Extracted biographical data from 20,000 pieces of bronze inscriptions
  - Developed softwares and tools of OCR (text recognition), Chinese variant characters converting, and geocoding for the team
- December 2020—  
March 2021*
- Project:** Chinese Archaeology Database Project  
**Institution:** The University of Hong Kong  
**PI:** Zhiwu Chen  
**Summary:**
- Collected 3,658 entries of archaeological data in Jiangxi Province
  - Cleaned and analyzed the archaeological sites data from 2000 to 771 BCE

- July 2020—  
January 2021*      **Project:** Knowledge Graph of Confucian Classics  
**Institution:** Peking University  
**Funded by:** National Natural Science Foundation of China  
**PI:** Jun Wang  
**Summary:**
- Built an ontology model of Confucian Classics bibliography
  - Constructed a thesaurus of Confucian Classics
- January 2014—  
June 2016*      **Project:** Patterns in the Evolution of Ancient History  
**Institution:** Peking University  
**Funded by:** Peking University President's Fund  
**Advisor:** Jin He  
**Summary:**
- Analyzed the evolution of legends in Early China by textual research

## Fieldwork Experience

- June 2018—  
July 2018*      **Project:** Excavation of the Liujiawa Site, Shaanxi Province  
**Institution:** Shaanxi Academy of Archaeology  
**PI:** Jianrong Chong  
**Summary:**
- Excavated a small-sized tomb in East Zon I dating to the early Spring-and-Autumn Period
  - Cataloged the unearthed funerary objects from a medium-sized tomb (M7) in East Zon I

## Teaching Experience

- October 2023*      **Course:** Computing in the Humanities  
**Institution:** University of Illinois Urbana-Champaign  
**Role:** Guest Lecturer  
**Contributions:** Delivering guest lectures to undergraduate students on the China Biographical Database and prosopography
- March 2023*      **Workshop:** Introduction to Optical Character Recognition (OCR)  
**Host:** China Biographical Database Project, Harvard University  
**Role:** Workshop Instructor  
**Contributions:** Providing guidance to visiting scholars on how to use OCR Tools, including image preprocessing, deploying local models, and invoking APIs
- September 2021—  
January 2022*      **Course:** Research on Paleography and Ancient History  
**Institution:** Peking University  
**Role:** Teaching Assistant  
**Contributions:** Assisting with course administration and teaching

<i>September 2020— January 2021</i>	<b>Course:</b>	General History of China (Ancient Part)
	<b>Institution:</b>	Peking University
	<b>Role:</b>	Teaching Assistant
	<b>Contributions:</b>	Assisting with course administration, teaching, and grading exams
<i>February 2019— July 2019</i>	<b>Course:</b>	Archaeological Discoveries and Historical Research
	<b>Institution:</b>	Peking University
	<b>Role:</b>	Teaching Assistant
	<b>Contributions:</b>	Assisting with course administration

## Selected Honors and Awards

### *Academic*

- Chinese Government Scholarship, 2021
- Merit Student of Peking University, 2015
- CHUNG Tien-Seen Scholarship, 2015
- Wu-Si Scholarship, 2014
- Lee Wai Wing Scholarship, 2013

### *Literary*

- The 1st “Qixiang Award” Science Fiction Short and Medium Story Writing Competition, Silver Award, 2023
- The 2nd “Rapid Eye Movement” Poetry Prize, The Chinese University of Hong Kong, Shenzhen, Finalist, 2020
- The 2nd iReader Writing Competition, First Prize for Short Story, 2018

## Certificates

<i>July 2022</i>	<b>Program:</b>	Digital Humanities at Oxford Summer School
	<b>Institution:</b>	Oxford University
<i>May 2022</i>	<b>Program:</b>	Mathematics for Machine Learning
	<b>Institution:</b>	Imperial College London
<i>April 2022</i>	<b>Program:</b>	Introduction to Programming with Python and Java
	<b>Institution:</b>	University of Pennsylvania
<i>July 2021</i>	<b>Program:</b>	The 8th Summer School for Quantitative History
	<b>Institution:</b>	Shanghai Jiao Tong University
<i>May 2020</i>	<b>Program:</b>	The 1st Workshop on Digital Humanities
	<b>Institution:</b>	Peking University