

## Wenyi Shang 尚闻一

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University of Missouri  
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### EDUCATION

**University of Illinois Urbana-Champaign**, Champaign, Illinois *August 2019 – July 2024*  
Ph.D. in Information Sciences (GPA: 4.00 of 4.00)

*Dissertation Title:*

“Moving Between Scales: Computationally Modeling Social Dynamics in the Elite Society of Premodern China”

*Dissertation Committee:*

Ted Underwood (Chair and Ph.D. Advisor), Jana Diesner, Zoe LeBlanc, Song Chen

**Peking University**, Beijing, China *September 2015 – July 2019*  
Bachelor of Management in Information Management (GPA: 3.85 of 4.00, Ranking: 1/57)  
Distinguished Graduate

**Trinity College Dublin**, Dublin, Ireland *January 2018 – May 2018*  
Exchange student

### ACADEMIC APPOINTMENT

**University of Missouri**, Columbia, Missouri *August 2024 (Incoming)*  
Assistant Professor, School of Information Science & Learning Technologies

### RESEARCH INTERESTS

Digital Humanities, Computational Social Science, Machine Learning, Text Mining, Network Analysis, Digital Libraries, Bibliographic Metadata, Book History and Print Culture

### PUBLICATIONS

#### Peer-Reviewed Journal Articles

- J1 **Shang, W.** & Underwood, T. (2024). Disentangling Semantic and Prosodic Features of English Poetry. *Digital Scholarship in the Humanities*, fqae008. <https://doi.org/10.1093/llc/fqae008>
- J2 **Shang, W.**, Jett, J., Underwood, T., & Downie, J. S. (2023). Descriptive Cataloging Issues for Non-Western Corpora: A Case Study of Late Imperial Chinese Books. *Cataloging & Classification Quarterly*, 61(1), 1–19. <https://doi.org/10.1080/01639374.2022.2148800>
- J3 **Shang, W.** & Underwood, T. (2023). Civil Service Examination Records and Political Independence in the Autonomous Northeastern Region During the Second Half of the Tang Dynasty (755–907 C.E.). *International Journal of Digital Humanities*, 4(1–3), 41–59. <https://doi.org/10.1007/s42803-022-00054-7>
- J4 **Shang, W.** & Huang, W. (2022). Rediscussing the Political Struggle in the Light of Reform in Late 11th Century China under the View of Digital Humanities. *Digital Humanities Quarterly*, 16(2). <http://www.digitalhumanities.org/dhq/vol/16/2/000613/000613.html>
- J5 Underwood, T., Kiley, K., **Shang, W.**, & Vaisey, S. (2022). Cohort Succession Explains Most Change in Literary Culture. *Sociological Science*, 9, 184–205. <https://doi.org/10.15195/v9.a8>
- J6 **Shang, W.** & Sang, Z. (2021). Solidity in a Turbulent Flow: The Social Network of Aristocratic Families in the Eastern Jin Dynasty (317–420 C.E.). *Journal of Historical Network Research*, 5(1), 1–32. <https://doi.org/10.25517/jhnr.v5i1.126>  
Chinese translation: **Shang, W.** 尚闻一 & Sang, Z. 桑梓洲 (2022). Tuanliu zhong de wentai: Dong Jin menfa guizu de shehui wangluo 湍流中的稳态: 东晋门阀贵族的社会网络. *Shuzi renwen* 数字人文 [Journal of Digital Humanities], (4), 36–57. <https://www.dhcn.cn/dhjournal/202204/24913.html>

- J7 **Shang, W.** 尚闻一 & Liang, X. 梁兴堃. (2020). “Zhen Ji zhijian, zi wei yi Qin”: zhong wan Tang Hebei fanzhen ren yuan wailiu de lianghua fenxi “镇冀之间，自为一秦”：中晚唐河北藩镇人员外流的量化分析 [“An Independent Country Formed Between Zhen and Ji”: A Quantitative Analysis of the Migration of People out of Hebei Region in the Mid-to-Late Tang Dynasty]. *Shuzi renwen* 数字人文 [Journal of Digital Humanities], (4), 151–184. <https://www.dhcn.cn/dhjournal/202004/6092.html>
- J8 **Shang, W.** 尚闻一 & Che, S. 车尚锟. (2019). Qunti jihua haishi xieshang tiaohu?—Weijibaike “Islamophobia” citiao shizheng yanjiu 群体极化还是协商调和？——维基百科“Islamophobia”词条实证研究 [Group Polarization or Collaboration: A Case Study of the Article “Islamophobia” on Wikipedia]. *Tushuguan luntan* 图书馆论坛 [Library Tribune], (9), 71–81. <https://www.cnki.net/KCMS/detail/detail.aspx?dbcode=CJFD&dbname=CJFDLAST2019&filename=TSGL201909009&uniplatform=OVERSEA&v=NtjirHXhgM6vFMcq2eep8DFgTvhgMCf44-XWhu6ylGSmQMJsOZcZ6DrsA6uvIH7>
- J9 **Shang, W.** 尚闻一 & Yu, Z. 于子轩. (2019). Dong Jin guizuzhi shehui de wending jizhi—*Shishuo xinyu* gongci fenxi 东晋贵族制社会的稳定机制——《世说新语》共词分析 [The Stability Mechanism of the Aristocratic Society in the Eastern Jin Dynasty: A Co-Word Analysis of *A New Account of the Tales of the World*]. *Tushuguan luntan* 图书馆论坛 [Library Tribune], (1), 46–57. [https://www.cnki.net/KCMS/detail/detail.aspx?dbcode=CJFD&dbname=CJFDLAST2019&filename=TSGL201901008&uniplatform=OVERSEA&v=NtjirHXhgMP\\_yd1sQikgU\\_cCpMTd6a9K5piNCDWE\\_oA0M1YkqBm-A2V4DogLzT7](https://www.cnki.net/KCMS/detail/detail.aspx?dbcode=CJFD&dbname=CJFDLAST2019&filename=TSGL201901008&uniplatform=OVERSEA&v=NtjirHXhgMP_yd1sQikgU_cCpMTd6a9K5piNCDWE_oA0M1YkqBm-A2V4DogLzT7)
- J10 **Shang, W.** & Huang, W. (2018). Investigating the Relationships between Scholars and Politicians in Ancient China: Taking the Yuanyou Era as an Example. *Journal of the Japanese Association for Digital Humanities*, 3(1), 33–48. [https://doi.org/10.17928/jjadh.3.1\\_33](https://doi.org/10.17928/jjadh.3.1_33)
- J11 Xu, H. 许欢 & **Shang, W.** 尚闻一. (2017). Meiguo, Ouzhou, Riben, Zhongguo shuzi suyang peiyang moshi fazhan shuping 美国、欧洲、日本、中国数字素养培养模式发展述评 [A Commentary on the Development of Digital Literacy Cultivation Models in the USA, Europe, Japan and China]. *Tushu qingbao gongzuo* 图书情报工作 [Library and Information Service], 61(16), 98–106. <https://doi.org/10.13266/j.issn.0252-3116.2017.16.014>
- J12 **Shang, W.** 尚闻一 & Yang, Z. 杨子傲. (2017). Jiyu zhishi shequn shijiao de wangluo baikequanshu citiao zhiliang yanjiu—Yi Wikipedia he Baidu Baike lishi lei citiao wei li (shang) 基于知识社群视角的网络百科全书词条质量研究——以 Wikipedia 和百度百科历史类词条为例（上） [Research on the Entries Quality of Online Encyclopedia Based on Knowledge Community Perspective: A Case Study on Historical Entries of Wikipedia and Baidu Baike (Part I)]. *Xinxi yu guanli yanjiu* 信息与管理研究 [Journal of Information and Management], 1(2), 28–42.

#### Peer-Reviewed Conference Proceedings

- C1 **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 (CHR 2023)* (pp. 263–273). <http://ceur-ws.org/Vol-3558/paper2567.pdf>
- C2 **Shang, W.** (2023). Moving Between Scales: Computationally Modelling Social Dynamics in the Elite Society of Premodern China. In *Proceedings of the Association for Library and Information Science Education Annual Conference (ALISE 2023)*. <https://doi.org/10.21900/j.alise.2023.1273>
- C3 Lavin, M., Walsh, M., Antoniak, M., Hu, Y., Underwood, T., Bishop, D., Senatorova, L., & **Shang, W.** (2023). Reception History in Many Dimensions: New Research on Book Reviews. In *The Book of Abstracts of Digital Humanities Conference 2023 (DH 2023)* (pp. 461–463). <https://zenodo.org/record/8210808>
- C4 **Shang, W.**, Cordell, R., & Downie, J. S. (2023). Book Size, Book Format: Historical Relationship in the HathiTrust Digital Library Metadata (1500–1799). In *Proceedings of the 2023 ACM/IEEE Joint Conference on Digital Libraries (JCDL 2023)* (pp. 279–281). <https://doi.org/10.1109/JCDL57899.2023.00059>
- C5 **Shang, W.** & Underwood, T. (2022). Genre Classification in English Poetry with Lexical and Prosodic Features. In *The Book of Abstracts of Digital Humanities Conference 2022 (DH 2022)* (pp. 567–569). <https://dh2022.dhii.asia/dh2022bookofabsts.pdf#page=569>
- C6 **Shang, W.** & Chen, S. (2022). Structural Balance in the Historical Political Networks of China. In *The Book of Abstracts of Digital Humanities Conference 2022 (DH 2022)* (pp. 569–571). <https://dh2022.dhii.asia/dh2022bookofabsts.pdf#page=571>

- C7 **Shang, W.**, Jett, J., & Downie, J. S. (2021). Exploring Metadata Quality Issues in Non-English Corpora: Preliminary Assessments of HathiTrust Records of late imperial Chinese Books. In *Proceedings of the 11th Conference of the Japanese Association for Digital Humanities (JADH 2021)* (pp. 88–92). [https://www.hi.u-tokyo.ac.jp/JADH/2021/Proceedings\\_JADH2021.pdf#page=88](https://www.hi.u-tokyo.ac.jp/JADH/2021/Proceedings_JADH2021.pdf#page=88)
- C8 **Shang, W.** & Underwood, T. (2021). Improving Measures of Text Reuse in English Poetry: A TF-IDF Based Method. In *Proceedings of the 16th International Conference (iConference 2021)* (pp. 469–477). [https://doi.org/10.1007/978-3-030-71292-1\\_36](https://doi.org/10.1007/978-3-030-71292-1_36)
- C9 Sharma, A., Hu, Y., Wu, P., **Shang, W.**, Singhal, S., & Underwood, T. (2020). The Rise and Fall of Genre Differentiation in English-Language Fiction. In *Proceedings of the Workshop on Computational Humanities Research (CHR 2020)* (pp. 97–114). <http://ceur-ws.org/Vol-2723/long27.pdf>
- C10 Lavin, M. J., Chang, K., Hu, Y., **Shang, W.**, Sharma, A., Singhal, S., Underwood, T., Witte, J., Wu, P., Sinykin, D., Walsh, M., & Antoniak, M. (2020). Cultural Analytics and the Book Review: Models, Methods, and Corpora. In *The Book of Abstracts of Digital Humanities Conference 2020 (DH 2020)* (pp. 525–526). [https://dh2020.adho.org/wp-content/uploads/2020/07/516\\_CulturalAnalyticsandtheBookReviewModelsMethodsandCorpora.html](https://dh2020.adho.org/wp-content/uploads/2020/07/516_CulturalAnalyticsandtheBookReviewModelsMethodsandCorpora.html)
- C11 **Shang, W.**, Zhang, J., & Huang, W. (2019). Modelling Poetic Similarity: A Comparative Study of W. B. Yeats and the English Romantic Poets. In *The Book of Abstracts of Digital Humanities Conference 2019 (DH 2019)*. <https://doi.org/10.34894/OUOSLM>
- C12 **Shang, W.** (2018). A Comparison of the Historical Entries in Wikipedia and Baidu Baike. In *Proceedings of the 13th International Conference (iConference 2018)* (pp. 74–80). [https://doi.org/10.1007/978-3-319-78105-1\\_9](https://doi.org/10.1007/978-3-319-78105-1_9)

## SELECTED PRESENTATIONS

- P1 **Shang, W.** Moving Between Scales: Computationally Modelling Social Dynamics in the Elite Society of Premodern China. Doctoral Colloquium, 86th Annual Meeting of the Association for Information Science and Technology (ASIS&T 2023), London, UK. October 27–31, 2023.
- P2 **Shang, W.** 尚闻一. Renwen yanjiu zhong de jisuan moxing: Dong Jin guizu shehui wangluo ji qita anli 人文研究中的计算模型：东晋贵族社会网络及其他案例 [Computational Models in Humanities Research: The Eastern Jin Aristocratic Social Network and Other Cases]. Invited talk, Shuzi renwen guoji lianhe shuqi gongzuofang’ 2023 数字人文国际联合暑期工作坊’ 2023 [International Joint Summer Workshop on Digital Humanities’ 2023], Peking University, Beijing, China (online). August 9, 2023.
- P3 **Shang, W.** A Research Framework of Book Size Modeling Based on Digital Library Metadata. The Tools of the Trade: The Way Forward, an International Conference on Digital Tools and Methods in East Asian Studies, Harvard University, Cambridge, MA. March 14–16, 2023.
- P4 **Shang, W.** Centrality and Triadic Balance: What Can Microlevel Measures Tell Us in a Historical Network? The Tools of the Trade: The Way Forward, an International Conference on Digital Tools and Methods in East Asian Studies, Harvard University, Cambridge, MA. March 14–16, 2023.
- P5 **Shang, W.** 尚闻一 & Sang, Z. 桑梓洲. Tuanliu zhong de wentai: Dong Jin menfa guizu de shehui wangluo 湍流中的稳态：东晋门阀贵族的社会网络. Solidity in a Turbulent Flow: The Social Network of Aristocratic Families in the Eastern Jin Dynasty. “Shenglü • wangluo • weilai” : di san jie Qinghua Daxue shuzi renwen guoji luntan “声律 • 网络 • 未来”：第三届清华大学数字人文国际论坛 [“Prosody • Network • Future” : The 3rd Tsinghua International Forum on Digital Humanities], Tsinghua University, Beijing, China. November 12–13, 2022.
- P6 Underwood, T., **Shang, W.**, Hu, Y., Kiley, K., Vaisey, S., LeBlanc, Z., Diesner, J., Layne-Worthey, G., Downie, J. S., Bishop, D., & Senatorova, E. Reception and Cultural Change. Invited talk, Tallinn University, Tallinn, Estonia (online). September 26, 2022.
- P7 **Shang, W.**, Cordell, R., & Downie, J. S. Computationally Modeling Publication Format in HathiTrust Books, 1500–1799. DH+BH: An Interdisciplinary Conference on Digital Humanities and Book History (online). September 22–24, 2022.
- P8 **Shang, W.** & Underwood, T. Disentangling Forms from Styles in English Poetry: A Classification Experiment. Digital Humanities Fair 2022, University of California, Berkeley, CA (online). May 3, 2022.

- P9 **Shang, W.** Computational Modeling of Humanities Data: Cases of English Literature and Chinese History. Invited talk, University of Notre Dame, Notre Dame, IN. April 28, 2022.
- P10 **Shang, W.** The Aristocratic Social Network in the Eastern Jin Dynasty (317–420 C.E.). Historical Network Research in Chinese Studies, Harvard University, Cambridge, MA (online). July 23–31, 2021.
- P11 **Shang, W.** 尚闻一. Jiyu shuzihua fangfa de Zhongguo gudai shi fenqi zai tantao—zhong wan Tang keju jilu de anli yanjiu 基于数字化方法的中国古代史分期再探讨——中晚唐科举记录的案例研究 [Rediscovering Premodern Chinese Historical Periodization Based on Digital Methods: A Case Study of Civil Service Examination Records in the Mid-to-Late Tang Dynasty]. *Shuzi renwen chuang kan yishi ji* Beijing shuzi renwen guoji gongzuofang 《数字人文》创刊仪式暨北京数字人文国际工作坊 [The Launching Ceremony of *Journal of Digital Humanities* and International Workshop (Beijing)], Tsinghua University, Beijing, China. December 14–15, 2019.
- P12 Underwood, T. & **Shang, W.** What Can We Do with Book Reviews? NovelTM Workshop 2019, Banff, Canada. October 17–18, 2019.

## TEACHING EXPERIENCE

<b>Instructor</b> <i>Computing in the Humanities</i>	<b>University of Illinois Urbana-Champaign</b> August 2023 – December 2023
This advanced undergraduate course explores the use of emerging technology and methods in scholarly activities in the humanities. Using the Python programming language, the main part of the course is organized around method-driven weekly topics, including data collection, data visualization, spatial analysis, text encoding, network analysis, machine learning, and text analysis. The course adopts an inclusive approach, blending lectures, seminars, and labs. Through readings, class discussions, programming assignments, and a semester project, students gain a comprehensive understanding of computing in the humanities. They also acquire hands-on experience in Python-based data analysis and learn the entire lifecycle for conducting research on a self-defined topic.	
<b>Teaching Assistant</b> <i>Database Design and Prototyping</i>	<b>University of Illinois Urbana-Champaign</b> May 2023 – August 2023
<b>Teaching Assistant</b> <i>Computing in the Humanities</i>	<b>University of Illinois Urbana-Champaign</b> January 2023 – May 2023
<b>Workshop Instructor</b> <i>ERGM and Network Simulation</i>	<b>Historical Network Research in Chinese Studies Conference</b> July 2021
<b>Teaching Assistant</b> <i>Information Organization</i>	<b>Peking University</b> February 2019 – June 2019
<b>Teaching Assistant</b> <i>Information Storage and Retrieval</i>	<b>Peking University</b> September 2018 – January 2019
<b>Teaching Assistant</b> <i>History of Chinese Books</i>	<b>Peking University</b> February 2017 – June 2017

## RESEARCH EXPERIENCE

<b>Research Assistant</b> <i>Innovation, Publicity, and Change in Literary Culture</i> Funding agency: University of Illinois Urbana-Champaign	<b>University of Illinois Urbana-Champaign</b> May 2022 – December 2022
<b>Research Assistant</b> <i>Computational Analysis of HathiTrust Periodical Collections</i> Funding agency: University of Illinois Urbana-Champaign	<b>University of Illinois Urbana-Champaign</b> August 2021 – May 2022
<b>Research Assistant</b> <i>Broadening Access to Text Analysis by Describing Uncertainty</i> Funding agency: National Endowment for the Humanities	<b>University of Illinois Urbana-Champaign</b> August 2020 – July 2021
<b>Research Assistant</b> <i>Text Mining the Novel: Establishing the Foundations of a New Discipline</i> Funding agency: Social Sciences and Humanities Research Council of Canada	<b>University of Illinois Urbana-Champaign</b> August 2019 – July 2020

## ACADEMIC SERVICE

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### Conference Organization and Jurying

- Program Committee, *Fifth Conference on Computational Humanities Research (CHR2024)* 2024
- Juror, Pratt-Severn Best Masters Student Paper Award, *87th Annual Meeting of the Association for Information Science and Technology (ASIS&T 2024)* 2024

### Reviewer

- *Annual Meeting of the Association for Information Science and Technology (ASIS&T)* 2023-2024
- *Digital Humanities Conference* (2023 Best Reviewer Award) 2020-2024

### International Correspondent

- *Shuzi renwen* 數字人文 [Journal of Digital Humanities] 2020-2023

## SELECTED HONORS AND AWARDS

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- Lucile Huntington Wilkinson Fellowship, University of Illinois Urbana-Champaign 2024
- Rayward Fellowship, University of Illinois Urbana-Champaign 2024
- Conference Presentation Award, University of Illinois Urbana-Champaign 2021, 2023, 2024
- Best Reviewer Award, Digital Humanities Conference (Recipient: 2 out of 549 Reviewers) 2023
- Travel Award, University of Illinois Urbana-Champaign 2022-2023
- Distinguished Graduate of Beijing City (Top 5%) 2019
- Tang Lixin Scholarship (Awarded to top 1% of students) 2016-2019
- Chinese National Scholarship (Awarded to top 1% of students) 2017
- “Merit Student” of Beijing City (Top 1%) 2017
- Fong Prize in Digital Scholarship, Harvard University (\$3,000) 2017

## LANGUAGE PROFICIENCY

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Chinese	Native
French	Intermediate reading, basic writing and speaking skills (certificate in Chinese College French Test Band 4/Test de français universitaire niveau)
Classical Chinese	Proficient reading skills