

# CURRICULUM VITAE

## Heng Zheng

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### Academic Appointments

- 2025–present    **Assistant Professor**, School of Information Science, University of Kentucky  
2023–2025    **Postdoctoral Research Associate**, School of Information Sciences, University of Illinois Urbana-Champaign

### Education

- 2024    **Ph.D. in Artificial Intelligence**, University of Groningen, The Netherlands  
Dissertation: *Arguments, Cases and Their Hardness: A Formal Theory With Case Studies in AI and Law*  
Supervisors: [Bart Verheij](#) and [Davide Grossi](#)  
2018    **Master of Logic**, Sun Yat-sen University, China  
2016    **Bachelor of Information Management and Information Systems**, Dalian Maritime University, China

### Publications

#### *Peer-Reviewed Conference Papers*

- 2026    Heng Zheng and Alex Zhang. “LLM-Assisted Legal Propositions Identification from Party Arguments in the U.S. Supreme Court Briefs”. In: *Proceedings of the 11th International Conference on Computational Models of Argument (COMMA 2026)*. Barcelona, Spain, 2026. URL: <https://comma2026.vercel.app> Accepted for publication.
- 2024    Heng Zheng, Y. Fu, M. J. Sarol, I. Sarraf, and Jodi Schneider. “Addressing Unreliability Propagation in Scientific Digital Libraries”. In: *Proceedings of the 2024 ACM/IEEE-CS Joint Conference on Digital Libraries (JCDL)*. Dec. 2024. DOI: [10.1145/3677389.3702526](https://doi.org/10.1145/3677389.3702526)
- 2024    Heng Zheng, T. D. Ledford, and Jodi Schneider. “Arguing About Controversial Science in the News: Does Epistemic Uncertainty Contribute to Information Disorder?” In: *Wisdom, Well-Being, Win-Win. iConference 2024*. Ed. by I. Sserwanga et al. Vol. 14597. Lecture Notes in Computer Science. Cham: Springer, Feb. 2024, pp. 211–235. DOI: [10.1007/978-3-031-57860-1\\_16](https://doi.org/10.1007/978-3-031-57860-1_16)

- 2023 Jodi Schneider, Jou Lee, Heng Zheng, and M. O. Salami. “Assessing the Agreement in Retraction Indexing across 4 Multidisciplinary Sources: Crossref, Retraction Watch, Scopus, and Web of Science”. In: *27th International Conference on Science, Technology and Innovation Indicators (STI 2023)*. May 2023. DOI: [10.55835/6441e5cae04dbe5586d06a5f](https://doi.org/10.55835/6441e5cae04dbe5586d06a5f)
- 2021 Heng Zheng, Davide Grossi, and Bart Verheij. “Hardness of Case-Based Decisions: A Formal Theory”. In: *Proceedings of the Eighteenth International Conference on Artificial Intelligence and Law (ICAAIL 2021)*. New York: ACM, 2021, pp. 149–158. DOI: [10.1145/3462757.3466071](https://doi.org/10.1145/3462757.3466071)
- 2020 Heng Zheng, Davide Grossi, and Bart Verheij. “Precedent Comparison in the Precedent Model Formalism: A Technical Note”. In: *Legal Knowledge and Information Systems. Proceedings of JURIX 2020: The Thirty-third Annual Conference*. Ed. by Serena Villata, Jakub Harata, and Petr Kemen. Vol. 334. Amsterdam: IOS Press, 2020, pp. 259–262. DOI: [10.3233/FAIA200878](https://doi.org/10.3233/FAIA200878)
- 2020 Heng Zheng, Davide Grossi, and Bart Verheij. “Case-Based Reasoning with Precedent Models: Preliminary Report”. In: *Computational Models of Argument. Proceedings of COMMA 2020*. Ed. by Henry Prakken, Stefano Bistarelli, Francesco Santini, and Carlo Taticchi. Vol. 326. Amsterdam: IOS Press, 2020, pp. 443–450. DOI: [10.3233/FAIA200528](https://doi.org/10.3233/FAIA200528)
- 2018 Heng Zheng, Minghui Xiong, and Bart Verheij. “Checking the Validity of Rule-Based Arguments Grounded in Cases: A Computational Approach”. In: *Legal Knowledge and Information Systems. JURIX 2018: The Thirty-first Annual Conference*. Ed. by Monica Palmirani. Vol. 313. Amsterdam: IOS Press, 2018, pp. 220–224. DOI: [10.3233/978-1-61499-935-5-220](https://doi.org/10.3233/978-1-61499-935-5-220)

#### *Peer-Reviewed Workshop Papers*

- 2026 Heng Zheng and Alex Zhang. “Mapping Legal Propositions in the U.S. Supreme Court Party Briefs: A Human-In-The-Loop Approach”. In: *New Frontiers in Artificial Intelligence*. Singapore: Springer Nature Singapore, June 2026, pp. 101–114. DOI: [10.1007/978-981-92-1527-0\\_7](https://doi.org/10.1007/978-981-92-1527-0_7)
- 2025 Heng Zheng, D. Williams, and Bertram Ludäscher. “Using LLMs to Model Arguments in U.S. Supreme Court Briefs: Preliminary Report”. In: *Proceedings of the International Workshop on Translating Natural Legal Language into Formal Representation (NLL2FR 2025)*. Held in conjunction with JURIX 2025, Turin, Italy, December 2025. 2025. URL: <https://jurisinformaticscenter.github.io/NLL2FR2025/NLL2FR2025proceedings.pdf#page=103.00>

- 2023 Heng Zheng and Jodi Schneider. “Can Argumentation Help Understand How Scientific Information Reaches the Public?” In: *Information Science Trends (IST) 2023: Information Science Perspectives on Documenting Processes and Practices*. Zenodo, June 2023. DOI: [10.5281/zenodo.8023747](https://doi.org/10.5281/zenodo.8023747)
- 2023 A.-S. Lippolis, A. Klironomos, D. F. Milon-Flores, Heng Zheng, A. Jouglar, E. Norouzi, and A. Hogan. “Enhancing Entity Alignment Between Wikidata and ArtGraph Using LLMs”. In: *Semantic Web and Ontology Design for Cultural Heritage 2023 (SWODCH 2023)*. Ed. by Antonis Bikakis, Roberta Ferrario, Stéphane Jean, B. Markhoff, Andrea Mosca, and M. Nicolosi Asmundo. CEUR-WS.org, 2023. URL: <https://ceur-ws.org/Vol-3540/paper7.pdf>
- 2021 Heng Zheng, Davide Grossi, and Bart Verheij. “Logical Comparison of Cases”. In: *AI Approaches to the Complexity of Legal Systems XI-XII. AICOL AICOL XAILA 2020 2018 2020*. Ed. by Víctor Rodríguez-Doncel, Monica Palmirani, Micha Araszkievicz, Pompeu Casanovas, Ugo Pagallo, and Giovanni Sartor. Cham: Springer, 2021, pp. 125–140. DOI: [10.1007/978-3-030-89811-3\\_9](https://doi.org/10.1007/978-3-030-89811-3_9)
- 2021 Heng Zheng, Davide Grossi, and Bart Verheij. “A Formal Approach to Case Comparison in Case-Based Reasoning: Research Abstract”. In: *The First International Workshop on Logics for New-Generation Artificial Intelligence (LNGAI 2021)*. Ed. by Beishui Liao, Jian Luo, and Leon van der Torre. London: College Publications, 2021, pp. 150–153. URL: <http://www.collegepublications.co.uk/LNGAI/?00001>
- 2020 Heng Zheng, Davide Grossi, and Bart Verheij. “Precedent Comparison in the Precedent Model Formalism: Theory and Application to Legal Cases”. In: *Proceedings of the EXplainable and Responsible AI in Law (XAILA) Workshop at JURIX 2020*. Ed. by Grzegorz J. Nalepa, Micha Araszkievicz, Martin Atzmueller, Bart Verheij, and Szymon Bobek. CEUR-WS.org, 2020. URL: [https://ceur-ws.org/Vol-2891/XAILA-2020\\_paper\\_3.pdf](https://ceur-ws.org/Vol-2891/XAILA-2020_paper_3.pdf)

#### *Other Peer-Reviewed Papers*

- 2025 Heng Zheng, D. Williams, and Bertram Ludäscher. “Modeling U.S. Supreme Court Briefs with Computational Argumentation”. In: *Proceedings of the Thirty-eighth International Conference on Legal Knowledge and Information Systems (JURIX 2025)*. Amsterdam: IOS Press, 2025, pp. 439–441. DOI: [10.3233/FAIA251631](https://doi.org/10.3233/FAIA251631)
- 2025 Y. Xia, Heng Zheng, S. Bowers, and Bertram Ludäscher. “AF-Xray: Visual Explanation and Resolution of Ambiguity in Legal Argumentation Frameworks”. In: *Proceedings of the 20th International Conference on Artificial Intelligence and Law*. New York: ACM, 2025. DOI: [10.1145/3769126.3769246](https://doi.org/10.1145/3769126.3769246)

- 2021 Heng Zheng. *Modeling Case-Based Reasoning with the Precedent Model Formalism: An Overview*. Ed. by Federico Castagna, F. Mosca, S. Mumford, J. Sarkadi, and Á. Xydis. 2021. URL: <https://arxiv.org/abs/2106.10832>

#### *Book Chapters without Peer Review*

- 2021 Heng Zheng and Bart Verheij. “Rules, Cases and Arguments in Artificial Intelligence and Law”. In: *Research Handbook on Big Data Law*. Ed. by Richard Vogl. Cheltenham: Edgar Elgar Publishing, 2021, pp. 373–387. URL: <https://www.ai.rug.nl/~verheij/publications/pdf/handbook2021.pdf>

#### *Posters*

- 2024 X. Zhou, Heng Zheng, and Jodi Schneider. *Recognizing people, organizations, and locations mentioned in the news*. 2024. URL: <https://hdl.handle.net/2142/125113>
- 2024 Heng Zheng, Y. Fu, and Jodi Schneider. *How does a piece of unreliable code impact its citing publications? An argumentation analysis*. 2024. URL: <https://jodischneider.com/pubs/ossa2024.pdf>
- 2024 Y. Fu, Heng Zheng, E. Vandel, and Jodi Schneider. *Assessing the impact of a computational chemistry protocol*. 2024. URL: <https://hdl.handle.net/2142/124768>
- 2023 Heng Zheng. *Using Argument Graphs to Audit Reasoning in Scientific Publications*. 2023. URL: <https://hdl.handle.net/2142/118103>

#### **Funding**

- **AI Literacy in Action: Strengthening Librarian-AI Collaboration in Public Libraries** – 2026
  - IMLS, Laura Bush 21st Century Librarian Program
  - Status: submitted
- **XAI-CA: Explainable AI via Computational Argumentation** – 2025
  - Cardiff University/University of Illinois System, Joint Research and Innovation Seed Grants Program
  - Amount: \$40,000
  - Status: funded

## Teaching

- **Introduction to Data Science**

Fall 2026 (LIS/ICT 661). Instructor of Record, School of Information Science, University of Kentucky

- **AI Literacy for Information Organizations**

Spring 2026 (LIS/ICT 690), Fall 2026 (LIS/ICT 690). Instructor of Record, School of Information Science, University of Kentucky

- **Introduction to Databases**

Fall 2025 (ICT301), Spring 2026 (ICT301), Summer 2026 (ICT301). Instructor of Record, School of Information Science, University of Kentucky

- **Information Modeling**

Fall 2024 (IS515), Spring 2025 (IS515). Instructor of Record, School of Information Sciences, University of Illinois Urbana-Champaign

## Service

### Conference Organization

- Program Co-Chair, 5th U.S. Semantic Technologies Symposium (US2TS), 2025 [\[link\]](#)

### Conference Reviewing

- The International Conference on Computational Models of Argument (COMMA), 2026
- The ACM Web Conference, 2026
- International Joint Conference on Artificial Intelligence (IJCAI), Human-Centred AI Special Track, 2026
- iConference, 2026
- Computational Models of Natural Argument (CMNA), 2023, 2024, 2025
- Workshop on AI, Law and Philosophy at the 36th International Conference on Legal Knowledge and Information Systems (ALP@JURIX), 2023
- The International Open Benchmark Council (BenchCouncil) International Symposium on Intelligent Computers, Algorithms, and Applications, AI for Law Area, 2023
- The Online Handbook of Argumentation for AI (OHAAI), 2022, 2023

### **Conference Additional Reviewing**

- The 3rd International Conference on Artificial Intelligence Logic and Applications (AILA), 2023
- The 27th International Conference on Science, Technology and Innovation Indicators (STI), 2023

### **Journal Reviewing**

- Studies in Logic
- Humanities and Social Sciences Communications
- Argument & Computation

### **Outreach Service**

- AI Off-Road Public Library Workshop Series, Lexington Public Library, in partnership with University of Kentucky School of Information Science, 2026 [[link](#)]

### **Institutional Service**

- Graduate Curriculum Focus Group, College of Communication and Information, University of Kentucky, 2026
- AI Curriculum Committee, School of Information Sciences, University of Illinois Urbana-Champaign, 2024