

## CURRICULUM VITAE

### Heng Zheng

School of Information Sciences

University of Illinois Urbana-Champaign, Champaign, IL

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### Academic Appointments

- 2024-08 – present Postdoctoral Research Associate, University of Illinois Urbana-Champaign  
Supervisor: Jodi Schneider, Bertram Ludäscher  
Funded by the UIUC iSchool Postdoctoral Research Associate Program and grants from the Institute of Museum and Library Services and the Alfred P. Sloan Foundation.
- 2024-02 – 2024-08 Postdoctoral Research Associate, University of Illinois Urbana-Champaign  
Supervisor: Jodi Schneider  
Funded by grants from the Institute of Museum and Library Services and the Alfred P. Sloan Foundation.
- 2023-01 – 2024-02 Research Associate, University of Illinois Urbana-Champaign  
Supervisor: Jodi Schneider  
Funded by grants from the Institute of Museum and Library Services and the Alfred P. Sloan Foundation.

### Education

- 2024 Ph.D. in Artificial Intelligence, University of Groningen, The Netherlands  
Dissertation Title: *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  
Supervisors: Minghui Xiong and Bart Verheij
- 2016 Bachelor of Information Management and Information Systems, Dalian Maritime University, China

### Publications

#### Peer-reviewed conference publications

- 2024 **Heng Zheng**, Y. Fu, M. J. Sarol, I. Sarraf, and J. Schneider. “Addressing Unreliability Propagation in Scientific Digital Libraries”. In: *The 2024 ACM/IEEE Joint Conference on Digital Libraries (JCDL '24)*. ACM, New York, 2024. DOI: [10.1145/3677389.3702526](https://doi.org/10.1145/3677389.3702526)

- 2024 **H. Zheng\***, T. D. Ledford, and J. 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, H. Joho, J. Ma, P. Hansen, D. Wu, M. Koizumi, and A. J. Gilliland. Lecture Notes in Computer Science. Cham: Springer Nature Switzerland, 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 J. Schneider, J. Lee, **H. 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)*. 2023. DOI: [10.55835/6441e5cae04dbe5586d06a5f](https://doi.org/10.55835/6441e5cae04dbe5586d06a5f)
- 2021 **H. Zheng\***, D. Grossi, and B. Verheij. “Hardness of Case-Based Decisions: a Formal Theory”. In: *Proceedings of the Eighteenth International Conference on Artificial Intelligence and Law*. ACM, New York, 2021, pp. 149–158. DOI: [10.1145/3462757.3466071](https://doi.org/10.1145/3462757.3466071)
- 2020 **H. Zheng\***, D. Grossi, and B. 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 S. Villata, J. Harašta, and P. Kšemen. Vol. 334. Amsterdam: IOS Press, 2020, pp. 259–262. DOI: [10.3233/FAIA200878](https://doi.org/10.3233/FAIA200878)
- 2020 **H. Zheng\***, D. Grossi, and B. Verheij. “Case-Based Reasoning with Precedent Models: Preliminary Report”. In: *Computational Models of Argument. Proceedings of COMMA 2020*. Ed. by H. Prakken, S. Bistarelli, F. Santini, and C. Taticchi. Vol. 326. Amsterdam: IOS Press, 2020, pp. 443–450. DOI: [10.3233/FAIA200528](https://doi.org/10.3233/FAIA200528)
- 2018 **H. Zheng\***, M. Xiong, and B. 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 M. 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

- 2023 A.-S. Lippolis, A. Klironomos, D. F. Milon-Flores, **H. 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 A. Bikakis, R. Ferrario, S. Jean, B. Markhoff, A. Mosca, and M. Nicolosi Asmundo. CEUR-WS.org, 2023. URL: <https://ceur-ws.org/Vol-3540/paper7.pdf>
- 2023 **H. Zheng\*** and J. 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, 2023. DOI: [10.5281/zenodo.8023747](https://doi.org/10.5281/zenodo.8023747)

- 2021 **H. Zheng\***, D. Grossi, and B. 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 B. Liao, J. Luo, and L. van der Torre. London: College Publications, 2021, pp. 150–153. URL: <http://www.collegepublications.co.uk/LNGAI/?00001>
- 2021 **H. Zheng**, D. Grossi, and B. Verheij. “Logical Comparison of Cases”. In: *AI Approaches to the Complexity of Legal Systems XI-XII. AICOL AICOL XAILA 2020 2018 2020*. Ed. by V. Rodríguez-Doncel, M. Palmirani, M. Araszkievicz, P. Casanovas, U. Pagallo, and G. Sartor. Lecture Notes in Computer Science. 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)
- 2020 **H. Zheng\***, D. Grossi, and B. 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 G. J. Nalepa, M. Araszkievicz, M. Atzmueller, B. Verheij, and S. Bobek. CEUR-WS, 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 publications

- 2021 **H. Zheng**. “Modeling Case-Based Reasoning with the Precedent Model Formalism: An Overview”. In: *Online Handbook of Argumentation for AI*. ed. by F. Castagna, F. Mosca, S. Mumford J. Sarkadi, and Á. Xydis. Vol. 2. arXiv, 2021, pp. 72–76. DOI: <https://doi.org/10.48550/arXiv.2106.10832>

### Other publications

#### *Conference Papers with Proceedings (Reviewed as Abstracts)*

- 2024 **H. Zheng\***, Y. Fu, and J. Schneider. *How Does a Piece of Unreliable Code Affect Its Citing Publications? An Argumentation Analysis*. The Thirteenth Conference of the Ontario Society for the Study of Argumentation, OSSA 13. URL: <https://jodischneider.com/pubs/ossa2024.pdf>

### Poster

- 2024 X. Zhou, **H. Zheng**, and J. Schneider. *Recognizing People, Organizations, and Locations Mentioned in the News*. Poster at the 2024 UIUC School of Information Sciences Research Showcase. 2024. URL: <https://hdl.handle.net/2142/125113>
- 2024 Y. Fu, **H. Zheng**, E. Vandell, and J. Schneider. *Assessing the Impact of a Computational Chemistry Protocol*. Poster at the American Chemical Society 2024 Fall Meeting. URL: <https://hdl.handle.net/2142/124768>
- 2023 **H. Zheng\***. *Using Argument Graphs to Audit Reasoning in Scientific Publications*. Poster at the International Semantic Web Research Summer School (ISWS 2023). 2023. URL: <https://hdl.handle.net/2142/118103>

### *Book chapter without peer review*

- 2021 **H. Zheng** and B. Verheij. “Rules, Cases and Arguments in Artificial Intelligence and Law”. In: *Research Handbook on Big Data Law*. Ed. by R. Vogl. Cheltenham: Edgar Elgar Publishing, 2021, pp. 373–387. URL: <https://www.e-elgar.com/shop/gbp/research-handbook-on-big-data-law-9781788972819.html>

\* Primary presenter

## Projects & Funding

- XAI-CA: Explainable AI via Computational Argumentation (under review)
  - 2025 Cardiff University-University of Illinois System Joint Research and Innovation Seed Grants Program
  - Amount: \$40,000
  - Role: Postdoctoral researcher. Main proposal author.
- Overseas Study Program of Guangzhou Elite Project for Ph.D. study (2018 – 2022)
  - Funded by The Guangzhou Elites Scholarship Council
  - Amount: ~\$88,000
  - Role: Ph.D. researcher

## Service

### Reviewer - Journals

- *Studies in Logic*

### Reviewer - Conferences

- Workshop on AI, Law and Philosophy at the 36th International Conference on Legal Knowledge and Information Systems (ALP@JURIX 2023)
- Computational Models of Natural Argument (CMNA 2023, 2024)
- The Online Handbook of Argumentation for AI (OHAAI 2022, 2023)
- The International Open Benchmark Council (BenchCouncil) International Symposium on Intelligent Computers, Algorithms, and Applications, AI for Law Area (2023)

### Additional Reviewer - Conferences

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

## Service for the School of Information Sciences, University of Illinois Urbana–Champaign

2024 AI Curriculum Committee

## Award

2023 Best Team Award and Best Presentation Award at the International Semantic Web Summer School 2023

## Teaching

School of Information Sciences, University of Illinois at Urbana-Champaign

### *Instructor of Record*

Fall 2024      Information Modeling  
MS in Information Management required course  
School of Information Sciences, University of Illinois at Urbana-Champaign

### *Guest Lectures*

2024-03-28    “Using Argumentation to Model Information”  
Information Modeling (Instructor: Karen Wickett)  
School of Information Sciences, University of Illinois at Urbana-Champaign  
2023-11-13    “Argumentation for Information Modeling”  
Information Modeling (Instructor: Bertram Ludäscher)  
School of Information Sciences, University of Illinois at Urbana-Champaign

Department of Artificial Intelligence, University of Groningen, NL

### *Teaching Assistant*

2019    Arguing Agents (MS in Artificial Intelligence course), University of Groningen, the Netherlands

## Programming Languages

Prolog; Python; C; Java; SQL

## Markup Languages

LaTeX

## Languages

English (fluent); Mandarin (native); Cantonese (native); Dutch (intermediate)