

## Rosa Yuanxi Fu

### Curriculum Vitae

University of Illinois Urbana-Champaign  
School of Information Sciences  
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#### RESEARCH AREAS

- Conceptual foundations in information science
- Scientific reasoning and argumentation
- Ethics of knowledge
- Data infrastructure

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#### EDUCATION

|                                                                                 |                   |
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| University of Illinois at Urbana-Champaign, School of Information Sciences, USA |                   |
| Ph.D. Information Science                                                       | expected May 2027 |
| M.S. Bioinformatics                                                             | 2021              |
| University of Illinois at Urbana-Champaign, Department of Chemistry             |                   |
| Ph.D. Chemistry                                                                 | 2015              |
| Nanjing University, School of Chemistry and Chemical Engineering, China         |                   |
| B.S. Chemistry                                                                  | 2008              |

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#### SELECTED AWARD AND HONORS

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| Eugene Garfield Doctoral Dissertation Fellowship, Beta Phi Mu International Honor Society           | 2025 |
| Journal of the Association for Information Science and Technology (JASIST) top reviewers            | 2021 |
| Pan Xueping's scholarship, Nanjing University (awarded the top-ranked student in each major cohort) | 2008 |

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#### PUBLICATIONS (student mentees underlines, †senior author)

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##### Peer reviewed journal papers

- J6 Fu, Y., Clarke, C. V., Moer, M. V., & Schneider, J. (2024). Exploring evidence selection with the inclusion network. *Quantitative Science Studies*, 5(1), 219-245. [https://doi.org/10.1162/qss\\_a\\_00287](https://doi.org/10.1162/qss_a_00287)
- J5 Schneider, J., Woods, N. D., Proescholdt, R., & the RISRS Team. (2022). Reducing the inadvertent spread of retracted science: recommendations from the RISRS report. *Research Integrity and Peer Review*, 7(1), 6. <https://doi.org/10.1186/s41073-022-00125-x>
- J4 Fu, Y., & Dlott, D. D. (2015). Single molecules under high pressure. *The Journal of Physical Chemistry C*, 119(11), 6373–6381. <https://doi.org/10.1021/jp512858u>
- J3 Brown, K. E., Fu, Y., Shaw, W. L., & Dlott, D. D. (2012). Time-resolved emission of dye probes in a shock-compressed polymer. *Journal of Applied Physics*, 112(10), 103508. <https://doi.org/10.1063/1.4765687>
- J2 Fu, Y., Friedman, E. A., Brown, K. E., & Dlott, D. D. (2011). Vibrational spectroscopy of nitroaromatic self-assembled monolayers under extreme conditions. *Chemical Physics Letters*, 501(4), 369–374. <https://doi.org/10.1016/j.cplett.2010.12.013>
- J1 Chen, W., Li, H., Huang, H., Fu, Y., Zhang, H. L., Ma, J., & Wee, A. T. S. (2008). Two-dimensional pentacene:3,4,9,10-perylene-tetracarboxylic dianhydride supramolecular chiral networks on Ag(111). *Journal of the American Chemical Society*, 130(37), 12285–12289. <https://doi.org/10.1021/ja801577z>

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##### Peer Reviewed Conference Full paper

- C2 Zheng, H.\*, Fu, Y.\*, Sarol, M. J., Sarraf, I., & Schneider, J. (2024). Addressing unreliability propagation in scientific digital libraries. *Proceedings of the 24<sup>th</sup> ACM/IEEE Joint Conference on Digital Libraries (JCDL '24)*, 1–11. <https://doi.org/10.1145/3677389.3702526> (\*equal contribution first author)

- C1 **Fu, Y., & Schneider, J.** (2020). Towards knowledge maintenance in scientific digital libraries with the keystone framework. *Proceedings of the ACM/IEEE Joint Conference on Digital Libraries in 2020 (JCDL'20)*, 217–226. <https://doi.org/10.1145/3383583.3398514>

### Peer Reviewed Conference Short Paper

- CS3 **Fu, Y., Yuan, J., & Schneider, J.** (2021). Using citation bias to guide better sampling of scientific literature. *Proceedings of the 18<sup>th</sup> International Conference on Scientometrics & Informetrics*, 419–424. <http://jodischneider.com/pubs/issi2021.pdf>
- CS2 Hsiao, T.K., **Fu, Y., & Schneider, J.** (2020). Visualizing evidence-based disagreement over time: The landscape of a public health controversy 2002–2014. *Proceedings of the Association for Information Science and Technology*, 57(1), e315. <https://doi.org/10.1002/pr2.315> (equal contribution first author)
- CS1 **Fu, Y., Christensen, J. M., & Dlott, D. D.** (2014). Molecular adsorbates under high pressure: A study using surface-enhanced Raman scattering spectroscopy. *Journal of Physics: Conference Series*, 500(12), 122004. <https://doi.org/10.1088/1742-6596/500/12/122004>

### Peer Reviewed Workshop Papers

- W4 **Stade, C., Schneider, J., & Fu, Y.†** (2025). From evidence to insights: GraphRAG as a dynamic knowledge layer for the collaboration for environmental evidence's database of evidence reviews. *Proceedings of the 3<sup>rd</sup> International Workshop on Knowledge Graphs for Sustainability (KG4S 2025)*, 4002, 39–45. <https://ceur-ws.org/Vol-4002/short6.pdf>
- W3 **Fu, Y., & Schneider, J.** (2025). Engineering the reproducible literature review section for scholarly publications and grant applications. *Proceedings of the AAAI Symposium Series*, 5(1), 360–364. <https://doi.org/10.1609/aaais.v5i1.35612>
- W2 **Fu, Y., & Schneider, J.** (2024). An argumentation interface to facilitate human-machine collaboration in scientific research: A preliminary exploration. *Proceedings of the 24<sup>th</sup> Workshop on Computational Models of Natural Argument*. The 24<sup>th</sup> Workshop on Computational Models of Natural Argument (CMNA'24), Hagen, Germany. <https://ceur-ws.org/Vol-3769/paper4.pdf>
- W1 **Fu, Y., Schneider, J., & Blake, C.** (2021). Finding keystone citations for constructing validity chains among research papers. *Companion Proceedings of the Web Conference 2021*, 451–455. (Sci-k 2021) <https://doi.org/10.1145/3442442.3451368>

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## TEACHING EXPERIENCE

**Co-instructor:** develop new course modules and homework assignments, teach class sessions, administrate Canvas

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|--------------------------------------------------|-------------|
| University of Illinois Urbana-Champaign, iSchool |             |
| - Concepts of Machine Learning                   | 2025 Spring |
| - Ethics and Policy for Data Science             | 2024 Spring |

**Teaching assistant:** grading, office hours, leading lab/discussion sessions, administrate Canvas

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|------------------------------------------------------------------|-------------|
| University of Illinois Urbana-Champaign, iSchool                 |             |
| - Data Management, Curation & Reproducibility                    | 2026 Fall   |
| - Theory and Practice of Data Cleaning (Coursera course)         | 2026 Summer |
| University of Illinois Urbana-Champaign, Department of Chemistry |             |
| - Statistical Mechanics                                          | 2014 Fall   |
| - Physical Chemistry                                             | 2009 Fall   |
| - Physical Chemistry Lab                                         | 2009 Spring |
| - General Chemistry Lab                                          | 2008 Fall   |

### Volunteering

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|----------------------------------------------------------------------------------------------|--------------|
| Certified instructor, the Carpentries                                                        | 2020–current |
| - Teach basic programming and data science skills to students, researchers, and professional |              |
| - Mostly teaching online                                                                     |              |
| Organizer, and instructor, Explainable AI study group                                        | 2022–2023    |

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## SERVICE

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### Organizing committee, workshops

- Networks in Science of Science workshop 2024–current
- 1st workshop on Digital Infrastructures for Scholarly Content Object 2021

### Program Committee, conferences

- ACM/IEEE Joint Conference on Digital Libraries (JCDL) 2026
- International Conference on Artificial Intelligence in Medicine (AIME) 2024

### Reviewer, journals

- Journal of the Association for Information Science and Technology (JASIST) 2021, 2026
- Quantitative Science Studies 2024
- Scientometrics 2024
- Journal of Academic Ethics 2023, 2025
- Journal of the American Medical Informatics Association (JAMIA) Open 2023
- Knowledge Organization 2021

### Reviewer, conferences

- The Web Conference 2027
- The Annual Meeting of the Association for Information Science and Technology (ASIS&T) 2026

### Program Committee, workshops

- International Workshop on Scientific Knowledge (Sci-K) 2025–current
- International Workshop on Computational Models of Natural Argument (CMNA) 2023–current

### Reviewer, workshops

- AI for Accelerated Materials Discovery (AI4Mat) Workshop 2024–current

### U of I iSchool service

- Organizer, Center for Informatics Research in Science and Scholarship speaker series 2024–2026
  - o The AI Disruption 2026 Spring
  - o Generative AI and the Future of Research 2025 Spring, Fall
  - o Study Science Scientifically 2024 Fall
- Student representative, Diversity Committee AY2023
- Student representative, MS Information Management/Bioinformatics sub-committee AY2019

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## PROFESSIONAL EXPERIENCE

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Director of research and analysis, Beijing Sirithink Technology, China 2016–2019

- Established and lead the department of research and analysis by managing remote consultants to work on technology-related consulting projects
- Established a network of 300+ subject experts (Sirithink Scholars), most of whom hold or are pursuing advanced degrees in STEM in China, to serve on various consulting projects

Research fellow, Center for Soft and Living Matter, Institute of Basic Science, South Korea 2015–2016

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## STUDENT MENTORING (U of I iSchool, unless otherwise noted)

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### PhD student

- Christoph Stade, UW-Madison iSchool 2025 Summer–current

### Master's students

- Yu-Chen Tung 2026 Fall
- Prathamesh Patil 2022 Fall
- Saahil Hiranandani 2021 Spring
- Kartikey Dubey 2021 Fall
- Zhonghe Wan 2021 Fall–2022 Spring

### Undergraduate students

- Steven Wu 2026 Fall
- Yoyo Lin 2026 Fall

|                                                         |             |
|---------------------------------------------------------|-------------|
| - Andrew Xie                                            | 2023 Fall   |
| - Tongtong Gu                                           | 2023 Fall   |
| - Ishita Sarraf, Grinnell College                       | 2023 Summer |
| - Deyuan (Doreen) Yang, DePauw University               | 2023 Summer |
| - Tasnia Haque, Cornell University                      | 2021 Summer |
| - Tiffany Lam, Cornell University                       | 2021 Summer |
| - Muhammad Rahman, University of Washington, Seattle    | 2021 Summer |
| - Karla González-Cruz, University of Puerto Rico, Cayey | 2021 Summer |

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#### **IMMIGRATION STATUS**

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U.S. permanent resident