

**Yuanxi “Rosa” 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

## EDUCATION

|                                                                            |                   |
|----------------------------------------------------------------------------|-------------------|
| University of Illinois at Urbana-Champaign, School of Information Sciences |                   |
| Ph.D. Information Sciences                                                 | 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              |

## SELECTED AWARDS AND HONORS

|                                                                                                     |      |
|-----------------------------------------------------------------------------------------------------|------|
| 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 |

## IMMIGRATION STATUS

U.S. permanent resident

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

### 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-perylenetetracarboxylic dianhydride supramolecular chiral networks on Ag(111). *Journal of the American Chemical Society*, 130(37), 12285–12289. <https://doi.org/10.1021/ja801577z>

### 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*, 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*, 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/pra2.315> (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.**<sup>†</sup>(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/aaaiss.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>

### TEACHING EXPERIENCE

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

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

University of Illinois Urbana-Champaign, iSchool

- Data Management, Curation & Reproducibility 2026 Fall
- Theory and Practice of Data Cleaning (Coursera course) 2026 Summer

#### Volunteering

Certified instructor, the Carpentries

- Teach basic programming and data science skills to students, researchers, and professional 2020–current
- Online teaching

Organizer, and instructor, Explainable AI study group

2022–2023

### SERVICE

#### 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                  |
| <b>Reviewer, journals</b>                                                                                                                |                       |
| - <i>Journal of the Association for Information Science and Technology (JASIST)</i>                                                      | 2021, 2026            |
| - <i>Quantitative Science Studies</i>                                                                                                    | 2024                  |
| - <i>Scientometrics</i>                                                                                                                  | 2024                  |
| - <i>Journal of Academic Ethics</i>                                                                                                      | 2023, 2025            |
| - <i>Journal of the American Medical Informatics Association (JAMIA) Open</i>                                                            | 2023                  |
| - <i>Knowledge Organization</i>                                                                                                          | 2021                  |
| <b>Reviewer, conferences</b>                                                                                                             |                       |
| - The Annual Meeting of the Association for Information Science and Technology (ASIS&T)                                                  | 2026                  |
| - The Web Conference                                                                                                                     | 2027                  |
| <b>Program Committee, workshops</b>                                                                                                      |                       |
| - International Workshop on Scientific Knowledge (Sci-K)                                                                                 | 2025–current          |
| - International Workshop on Computational Models of Natural Argument (CMNA)                                                              | 2023–current          |
| <b>Reviewer, workshops</b>                                                                                                               |                       |
| - AI for Accelerated Materials Discovery (AI4Mat) Workshop                                                                               | 2024–current          |
| <b>University of Illinois Urbana-Champaign iSchool service</b>                                                                           |                       |
| - 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: State of the Art and Prospects for Science of Science                                                    | 2024 Fall             |
| - Student representative, Diversity Committee                                                                                            | AY2023                |
| - Student representative, MS Information Management/Bioinformatics sub-committee                                                         | AY2019                |
| <b>STUDENT MENTORING (U of I iSchool, unless otherwise noted)</b>                                                                        |                       |
| 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           |
| - Jasmin Yuan                                                                                                                            | 2021 Spring           |
| <b>PROFESSIONAL EXPERIENCE</b>                                                                                                           |                       |
| Director of research and analysis, Beijing Sirithink Technology, China                                                                   | Jun 2016–May 2019     |
| - Supervisor: none/partnership                                                                                                           |                       |
| - Responsibility: managing remote consultants—PhD and master's students in STEM fields—to support technology-related consulting projects |                       |

Research fellow, Center for Soft and Living Matter,  
Ulsan National Institute of Science and Technology (UNIST), South Korea

- Supervisor: Prof. Steve Granick
- Responsibility: research polymer dynamics in a crowded environment

May 2015–May 2016