Curriculum Vitae

Hanjia Lyu

September 15, 2025

Email:	hlyu5@ur.rochester.edu
Homepage:	https://brucelyu17.github.io/

Research Areas

Computational Social Science, AI and Society, Multimodal LLMs, Health Informatics, Data Mining

Education

Ph.D. Candidate in Computer Science, University of Rochester	2021 - Now
M.S. in Data Science, University of Rochester	2019 - 2020
B.A. in Economics, Fudan University	2013 - 2017

Recognition

Google PhD Fellowship	2024
Graduate Student Supplemental Professional Development Funding Award	2024
NSF Student Travel Award, CIKM	2024
Student Travel Award, MIPR	2024
Student Travel Award, ICLR	2024
Donald M. and Janet C. Barnard Fellowship	2023
Snap Research Fellowship Semi-Finalist	2022
Graduate Student Scholarship, SBP-BRiMS	2021
First place in the UR Biomedical Data Science Hackathon	2020

Industry Experience

Snap — *Remote*
Research Scientist Intern — May 2025 - Dec 2025

Meta — *Menlo Park, CA*
Research Scientist Intern — Oct 2024 - Jan 2025
Research Scientist Intern — Jun - Oct 2024
Research Scientist Intern — Apr - Aug 2023
Research Scientist Intern — May - Sep 2022

Wyze Labs — *Remote*
Research Scientist Intern — Jan - May 2022

Selected Publications

[For a complete list of my publications, please visit my homepage.]

1. **Hanjia Lyu**, Jiebo Luo, Jian Kang, and Allison Koenecke. Characterizing bias: Benchmarking large language models in simplified versus traditional Chinese. In *ACM Conference on Fairness, Accountability, and Transparency, FAccT*, Athens, Greece, June, 2025. URL `https://doi.org/10.1145/3715275.3732182`

   → *Presented at: FAccT 2025, IC2S2 2025 (Parallel Talk)*

2. **Hanjia Lyu***, Jinfa Huang*, Daoan Zhang*, Yongsheng Yu*, Xinyi Mou*, Jinsheng Pan, Zhengyuan Yang, Zhongyu Wei, and Jiebo Luo. GPT-4V(ision) as a social media analysis engine. *ACM Transactions on Intelligent Systems and Technology*, 2025. URL `https://doi.org/10.1145/3709005`

   → *Presented at: Synchronous Reading Club*

3. Hanqing Zeng*, **Hanjia Lyu***, Diyi Hu, Yinglong Xia, and Jiebo Luo. Mixture of weak & strong experts on graphs. In *The Twelfth International Conference on Learning Representations, ICLR*, Vienna, Austria, May, 2024. URL `https://openreview.net/pdf?id=wYvuY60SdD`

   → *Presented at: ICLR 2024*

4. **Hanjia Lyu**, Song Jiang, Hanqing Zeng, Yinglong Xia, Qifan Wang, Si Zhang, Ren Chen, Chris Leung, Jiajie Tang, and Jiebo Luo. LLM-Rec: Personalized recommendation via prompting large language models. In *Findings of the Association for Computational Linguistics: NAACL 2024*, Mexico City, Mexico, June 2024. Association for Computational Linguistics. URL `https://aclanthology.org/2024.findings-naacl.39.pdf`

   → *Presented at: NAACL 2024, DEFirst Reading Group at Mila x Vector Institute*

5. **Hanjia Lyu***, Jinsheng Pan*, Zichen Wang*, and Jiebo Luo. Computational assessment of hyperpartisanship in news titles. In *AAAI International Conference on Web and Social Media, ICWSM*, Buffalo, NY, USA, June, 2024. URL `https://arxiv.org/pdf/2301.06270.pdf`

   → *Media coverage:* *UofR News Center, Study Finds, ScienceBlog, EurekAlert!*

   → *Presented at:* *ICWSM 2024*

6. **Hanjia Lyu**, Arsal Imtiaz, Yufei Zhao, and Jiebo Luo. Human behavior in the time of COVID-19: Learning from big data. *Frontiers in Big Data*, 6:1099182, 2023. URL `https://doi.org/10.3389/fdata.2023.1099182`

7. **Hanjia Lyu** and Jiebo Luo. Understanding political polarization via jointly modeling users, connections and multimodal contents on heterogeneous graphs. In *ACM Multimedia Conference, ACM-MM*, Lisbon, Potugal, October, 2022. URL `https://doi.org/10.1145/3503161.3547898`

   → *Presented at:* *ACM-MM 2022, Western New York Image and Signal Processing Workshop*

8. **Hanjia Lyu**, Junda Wang, Wei Wu, Viet Duong, Xiyang Zhang, Timothy D Dye, and Jiebo Luo. Social media study of public opinions on potential COVID-19 vaccines: informing dissent, disparities, and dissemination. *Intelligent medicine*, 2(1):1–12, 2022. URL `https://doi.org/10.1016/j.imed.2021.08.001`

   → *Media coverage:* *News Medical*

   → *Presented at:* *Great Lakes Science Boot Camp for Librarians*

9. **Hanjia Lyu**, Zihe Zheng, and Jiebo Luo. Misinformation versus facts: Understanding the influence of news regarding COVID-19 vaccines on vaccine uptake. *Health Data Science*, 2022. URL `https://doi.org/10.34133/2022/9858292`

   → *Media coverage:* *Medical Economics, News Medical, News Wise, Medical Xpress*

   → *Presented at:* *Great Lakes Science Boot Camp for Librarians, CSUG Research Panel*

10. **Hanjia Lyu**, Yangxin Fan, Ziyu Xiong, Mayya Komisarchik, and Jiebo Luo. Understanding public opinion toward the #StopAsianHate movement and the relation with racially motivated hate crimes in the US. *IEEE Transactions on Computational Social Systems*, 2021. URL `https://doi.org/10.1109/TCSS.2021.3136858`

    → *Media coverage:* *UofR News Center, Rochester Beacon, Futurity*

11. **Hanjia Lyu**, Long Chen, Yu Wang, and Jiebo Luo. Sense and sensibility: Characterizing social media users regarding the use of controversial terms for COVID-19. *IEEE Transactions on Big Data*, 7(6):952–960, 2020. URL `https://doi.org/10.1109%2FTBDATA.2020.2996401`

   $\rightarrow$ *Media coverage: IEEE Spectrum, Tech Xplore, UofR News Center*

   $\rightarrow$ *Presented at: Experience Rochester, CSUG Research Panel*

Teaching Experience

Guest Lecturer

University of Rochester   Nov 2024
CSC 511: Large Language Models

Fudan University   Nov 2023
MI620017: Insurance Study

University of Rochester   Sep 2023
CSC 440: Data Mining

Teaching Assistant

University of Rochester

CSC 480: Computer Models & Limitations	Spring 2023
CSC 486: Computational Complexity	Spring 2023
CSC 440: Data Mining	Fall 2022
CSC 446: Machine Learning	Spring 2022
CSC 440: Data Mining	Fall 2021
CSC 440: Data Mining	Fall 2020

Talks & Publicity

• FAccT	Jun 2025
• Meta	Jun 2025
• CIKM	Oct 2024
• MIPR	Aug 2024
• ICME	Jul 2024
• ICWSM	Jun 2024

- NAACL   Jun 2024
- ICLR   May 2024
- Data Science Snack Series: Internship Panel, University of Rochester   Feb 2024
- Synchronous Reading Club   Jan 2024
- Fudan University   Nov 2023
- DEFirst Reading Group at Mila x Vector Institute   Oct 2023
- ICDH   Jul 2023
- AS&E Graduate Research Symposium, University of Rochester   Mar 2023
- Western New York Image and Signal Processing Workshop   Nov 2022
- Great Lakes Science Boot Camp for Librarians   Jun 2022
- Fudan-UC Center on Contemporary China, UCSD   May 2022
- InsurTech Innovation: UK & China as Hotspots of the Global World   Apr 2022
- CSUG Research Panel, University of Rochester   Oct 2021
- SBP-BRiMS   Jul 2021
- Experience Rochester, University of Rochester   Sep 2020

Service to the Research Community

Organizing Committee

1st Multimodal Learning for Social Good (MML4SG) workshop at ICME   2024

1st Visual-Language Alignment in Text-Guided Multi-Modal Generation (TMMG) workshop at ICME   2024

Area Chair

EMNLP   2024
NAACL   2025

Editor for Journals

Frontiers in Public Health

ACM Transactions on Multimedia Computing, Communications, and Applications

- Special Issue on Multimodal Video Understanding and Analysis with Foundation Models

Program Committee/Reviewer for Conferences

AAAI	2023 - 2025
ACL	2024 - 2025
ACML	2024
ACM-MM	2023 - 2025
AISTATS	2025
ASONAM	2023 - 2024
BigData	2024
CIKM	2022 - 2024
CVPR	2025
EMNLP	2023, 2025
ICDM	2021, 2023
ICLR	2025 - 2026
ICLS	2022
ICME	2024 - 2025
ICML	2025
ICPR	2024
ICWSM	2021 - 2025
IJCNLP-AACL	2023
KDD	2023 - 2025
NeurIPS	2024 - 2025
NeurIPS Datasets and Benchmarks	2023 - 2024
RecSys	2025
SDM	2024
WSDM	2024 - 2025
WWW	2022

Reviewer for Journals

Machine Learning/Artificial Intelligence

ACM Transactions on Information Systems

ACM Transactions on Interactive Intelligent Systems

IEEE Transactions on Knowledge and Data Engineering (TKDE)

IEEE Transactions on Multimedia (TMM)

IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)

Data Science/Computational Social Science

Journal of Big Data

Telematics and Informatics

Health Informatics

BMC Public Health

Frontiers in Psychiatry

Frontiers in Psychology

Multidisciplinary

PLOS ONE

SAGE Open

Scientific Reports