

Curriculum Vitae

Hanjia Lyu

September 14, 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

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

Recognitions

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

Industry Experience

Snap	<i>Remote</i>
Research Scientist Intern	May 2025 - Dec 2025
Meta	<i>Menlo Park, CA</i>
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, Inc.	<i>Remote</i>
Research Scientist Intern (Part-Time)	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**, Aarsal 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, Portugal, 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>

→ Media coverage: *IEEE Spectrum, Tech Xplore, UofR News Center*

→ Presented at: *Experience Rochester, CSUG Research Panel*

Teaching Experience

Guest Lecturer

University of Rochester CSC 511: Large Language Models	Nov 2024
Fudan University MI620017: Insurance Study	Nov 2023
University of Rochester CSC 440: Data Mining	Sep 2023

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)
- Synchronous Reading Club (Jan 2024)
- Fudan University (Nov 2023)
- DEFIRST Reading Group at Mila x Vector Institute (Oct 2023)
- ICDH (Jul 2023)
- Western New York Image and Signal Processing Workshop (Nov 2022)
- Great Lakes Science Boot Camp for Librarians (Jun 2022)
- China Research Workshops at the 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)
- 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)

ACMMM (2023-2025)

AISTATS (2025)

ASONAM (2023-2024)

BigData (2024)

CIKM (2022-2024)

CVPR (2025)

EMNLP (2023)

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