

Curriculum Vitae

Hanjia Lyu

September 21, 2025

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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

Research Scientist Intern

Remote

May 2025 - Dec 2025

Meta

Research Scientist Intern

Menlo Park, CA

Oct 2024 - Jan 2025

Research Scientist Intern

Jun - Oct 2024

Research Scientist Intern

Apr - Aug 2023

Research Scientist Intern

May - Sep 2022

Wyze Labs

Research Scientist Intern

Remote

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 *Proceedings of the 2025 ACM Conference on Fairness, Accountability, and Transparency, FAccT '25*, pp. 2815–2846, New York, NY, USA, 2025. Association for Computing Machinery. ISBN 9798400714825. doi: 10.1145/3715275.3732182. URL <https://doi.org/10.1145/3715275.3732182>

→ *Presented at: FAccT 2025, IC2S2 2025 (Parallel Talk)*
2. → *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 Kevin Duh, Helena Gomez, and Steven Bethard (eds.), *Findings of the Association for Computational Linguistics: NAACL 2024*, pp. 583–612, Mexico City, Mexico, June 2024. Association for Computational Linguistics. doi: 10.18653/v1/2024.findings-naacl.39. URL <https://aclanthology.org/2024.findings-naacl.39/>

→ *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. *Proceedings of the International AAAI Conference on Web and Social Media*, 18(1):999–1012, May 2024. doi: 10.1609/icwsm.v18i1.31368. URL <https://ojs.aaai.org/index.php/ICWSM/article/view/31368>
 → 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 *Proceedings of the 30th ACM International Conference on Multimedia*, MM ’22, pp. 4072–4082, New York, NY, USA, 2022. Association for Computing Machinery. ISBN 9781450392037. doi: 10.1145/3503161.3547898. 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. ISSN 2667-1026. doi: <https://doi.org/10.1016/j.imed.2021.08.001>. URL <https://www.sciencedirect.com/science/article/pii/S266710262100036X>
 → Media coverage: *News Medical*
 → Presented at: *Great Lakes Science Boot Camp for Librarians*
9. **Hanjia Lyu**, Ziheng 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	Nov 2024
CSC 511: Large Language Models	

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

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| • 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
• DEFfirst 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

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