

Curriculum Vitae

Hanjia Lyu

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Research Interest

data mining, computational social science, health informatics,

Education

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

Recognitions

- 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

Selected Publications

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

1. **Hanjia Lyu**. Towards advancing text-based user and item representation in personalized recommendation. In *Proceedings of the 33rd ACM International Conference on Information and Knowledge Management, CIKM '24*, New York, NY, USA, 2024
2. 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>
3. **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>
4. **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!*
5. **Hanjia Lyu***, Weihong Qi*, Zhongyu Wei, and Jiebo Luo. Human vs. LMMs: Exploring the discrepancy in emoji interpretation and usage in digital communication. In *AAAI International Conference on Web and Social Media, ICWSM*, Buffalo, NY, USA, June, 2024. URL <https://arxiv.org/pdf/2401.08212.pdf>

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>
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
 → Media coverage: *News Medical*
9. **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*
10. **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*

Teaching Experience

Guest Lecturer

Fudan University MI620017: Insurance Study Generative Artificial Intelligence in Finance and Insurance	Nov. 2023
University of Rochester CSC 440: Data Mining Towards Data Intelligence: Unveiling Insights through 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

Industry Experience

Meta Platforms, Inc.

Research Scientist Intern	Menlo Park, CA
Mentors: Dr. Yinglong Xia	June - Oct. 2024

Meta Platforms, Inc.

Research Scientist Intern	Menlo Park, CA
Mentors: Dr. Hanqing Zeng, Dr. Yinglong Xia	Apr. - Aug. 2023

Meta Platforms, Inc.

Research Scientist Intern	Menlo Park, CA
Mentors: Fiona Tang, Dr. Ren Chen, and Dr. Yinglong Xia	May - Sep. 2022

Wyze Labs, Inc.

Research Scientist Intern	Kirkland, WA
Mentors: Dr. Mohammad Mahdi Kamani, Dr. Zhongwei Cheng, and Dr. Lin Chen	Jan. - May 2022

Invited Talks

GPT-4V as A Social Media Analysis Engine, Synchronous Reading Club	Jan. 2024
Generative Artificial Intelligence in Finance and Insurance, Fudan University	Nov. 2023
DEFirst Reading Group at Mila x Vector Institute, Virtual	Oct. 2023
Western New York Image and Signal Processing Workshop, Rochester Institute of Technology	Nov. 2022
Great Lakes Science Boot Camp for Librarians, Virtual	June 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, Virtual	Apr. 2022
CSUG Research Panel, University of Rochester	Oct. 2021
Experience Rochester, Virtual	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)

Editor for Journals

Frontiers in Public Health

Program Committee/Reviewer for Conferences

- AAAI (2023-2025)
- ACL (2024)
- ACML (2024)

ACMMM (2023-2024)
ASONAM (2023-2024)
BigData (2024)
CIKM (2022-2024)
EMNLP (2023)
ICDM (2021, 2023)
ICLR (2025)
ICLS (2022)
ICME (2024)
ICPR (2024)
ICWSM (2021-2025)
IJCNLP-AACL (2023)
KDD (2023-2025)
NeurIPS (2024)
NeurIPS Datasets and Benchmarks (2023-2024)
SDM (2024)
WSDM (2024-2025)
WWW (2022)

Reviewer for Journals

TKDE
TMM
TPAMI