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	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**, 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`

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`

    $\rightarrow$ *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`

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

Teaching Experience

Guest Lecturer

Fudan University   Nov. 2023
MI620017: Insurance Study
Generative Artificial Intelligence in Finance and Insurance

University of Rochester   Sep. 2023
CSC 440: Data Mining
Towards Data Intelligence: Unveiling Insights through 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

Industry Experience

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

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

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

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

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   Nov. 2022
of Technology

Great Lakes Science Boot Camp for Librarians, Virtual   June 2022

China Research Workshops at the Fudan-UC Center on Contemporary China,   May 2022
UCSD

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)

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)

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