

# 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, 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

<b>Fudan University</b>	Nov. 2023
MI620017: Insurance Study	
Generative Artificial Intelligence in Finance and Insurance	
<b>University of Rochester</b>	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 Platforms, Inc.

Research Scientist Intern  
Mentors: Dr. Yinglong Xia

Menlo Park, CA  
June - Oct. 2024

### Meta Platforms, Inc.

Research Scientist Intern  
Mentors: Dr. Hanqing Zeng, Dr. Yinglong Xia

Menlo Park, CA  
Apr. - Aug. 2023

### Meta Platforms, Inc.

Research Scientist Intern  
Mentors: Fiona Tang, Dr. Ren Chen, and Dr. Yinglong Xia

Menlo Park, CA  
May - Sep. 2022

### Wyze Labs, Inc.

Research Scientist Intern  
Mentors: Dr. Mohammad Mahdi Kamani, Dr. Zhongwei Cheng, and  
Dr. Lin Chen

Kirkland, WA  
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

- 1<sup>st</sup> Multimodal Learning for Social Good (MML4SG) workshop at ICME 2024
- 1<sup>st</sup> 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