Yiqiao Jin (Ahren)

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CONTACT

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RESEARCH INTERESTS

- Data Mining, Social Network Analysis, Graph Mining, Computational Social Science, Misinformation Detection.

EDUCATION

Georgia Institute of Technology Aug. 2022 – May 2027 (Expected)

- Ph.D., Computer Science. GPA: **4.0/4.0**

University of California, Los Angeles (UCLA) Sep. 2018 – Dec. 2021

- B.S., Computer Science. GPA: **3.82/4.0**. Major GPA: **3.92/4.0**.

RESEARCH EXPERIENCE

Georgia Tech College of Computing Aug 2022 – Present
Graduate Research Assistant Atlanta, GA
Advisor: Dr. Srijan Kumar

- Research Topics: Social Network Analysis, Dynamic Graphs, Misinformation Detection, Graph Mining.
- Model cross-platform information propagation through temporal graph approaches.
- Analyze the information pathways across online communities on Reddit.

Microsoft Research Asia (MSRA), Social Computing Group Dec. 2020 – July 2022
Research Intern Beijing, China
Advisor: Dr. Xiting Wang and Dr. Xing Xie

- Research Topics: Explainable AI, Language Modeling, Misinformation Detection, Graph Mining, Learning in Low-Resource (Limited Data) Scenarios.
- Published 2 papers on Fake News Detection at AAAI'22 and KDD'22.
- Published 1 paper on robust language model fine-tuning under low-resource scenarios at AAAI'23.
- Designed "FinerFact", a fine-grained reasoning framework for fake news detection that follows the human's information-processing model.
- Improve existing misinformation datasets with fine-grained social information (propagation networks, user metadata) to facilitate research in misinformation.
- Delivered multiple talks on fact-checking, misinformation detection, and reasoning with graph-based approaches to MSRA SC Group and Microsoft Research, Redmond.

UCLA Scalable Analytics Institute (ScAi) June 2021 – June 2022
Undergraduate Research Assistant Los Angeles, CA
Advisor: Dr. Yizhou Sun and Dr. Wei Wang

- Research Topics: Graph-Based Recommender Systems for Open Source Software (OSS).
- Constructed 3 datasets for code recommendation based on GitHub contribution and star relations to facilitate research on OSS. The datasets incorporate multi-modal information, including heterogeneous graph nodes (GitHub repositories, users, issues, pull requests, comments) and relations (star, fork, watch, contribute, follow).
- Designed CODER, a graph-based framework for code recommendation based on multimodal signals for open source developers. Performed fine-grained analysis of OSS contribution networks through networkx and Gephi.

Publications

- *Neng Kai Nigel Neo, Yeon-Chang Lee,* **Yiqiao Jin**, *Sang-Wook Kim, Srijan Kumar.* Towards Fair Graph Anomaly Detection: Problem, New Datasets, and Evaluation. *Under Review. Submitted to the 37th Conference on Neural Information Processing Systems Datasets and Benchmarks Track (NeurIPS'23 D&B).*
- **Yiqiao Jin**, *Yeon-Chang Lee, Kartik Sharma, Meng Ye, Karan Sikka, Ajay Divakaran, Srijan Kumar.* Predicting Information Pathways Across Online Communities. *In Proceedings of the 29th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD'23).* Acceptance rate: 22.1%.
- *Changyu Chen, Xiting Wang,* **Yiqiao Jin**, *Victor Ye Dong, Li Dong, Rui Yan, Jim Cao, Yi Liu.* Semi-Offline Reinforcement Learning for Optimized Text Generation. *In Proceedings of the 40th International Conference on Machine Learning (ICML 2023).* Acceptance rate: 27.9%.
- **Yiqiao Jin**, *Yunsheng Bai, Yanqiao Zhu, Yizhou Sun, Wei Wang.* Code Recommendation for Open Source Project Developers. *In Proceedings of the ACM Web Conference 2023.* Acceptance rate: 19.2%
- **Yiqiao Jin**, *Xiting Wang, Yaru Hao, Yizhou Sun, Xing Xie.* Prototypical Fine-tuning: Towards Robust Performance Under Varying Data Sizes. *In Proceedings of the 37th AAAI Conference (AAAI'23).* **Oral Presentation**. Acceptance rate: 19.6%
- **Yiqiao Jin**, *Xiting Wang, Ruichao Yang, Yizhou Sun, Wei Wang, Hao Liao, Xing Xie.* Towards Fine-Grained Reasoning for Fake News Detection. *In Proceedings of the 36th AAAI Conference (AAAI'22).* **Oral Presentation**. Acceptance rate: 14.6%
- *Ruichao Yang, Xiting Wang,* **Yiqiao Jin**, *Chaozhuo Li, Jianxun Lian, Xing Xie.* Reinforcement Subgraph Reasoning for Fake News Detection. *In Proceedings of the 28th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD'22).* Acceptance rate: 14.9%

Professional Experience

Amazon.com, Fulfillment By Amazon (FBA) June 2020 – Sep. 2020
Software Engineer Intern Seattle, USA

- Created IAR Manual Analysis, an AWS Step Functions workflow that uses AWS Lambda to aggregate datapoints from various data sources (S3, DynamoDB) for SageMaker ML model training, and handles $\geq$ 16,000 requests per summary stage.
- Achieved automatic deployment of the workflow to all AWS Realms (EU/FE/NA) through CloudFormation. Promoted public usage of datasets by establishing DataCraft pipeline to load DynamoDB into Andes dataset catalog.
- Optimized performances of the inventory reconciliation model through ablation analysis.

IBM, China Development Laboratories June 2019 – Sep. 2019
Software Engineer Intern Beijing, China

- Created "Compass DataRouter," a routing service for "Compass" project based on Golang and MongoDB, reducing memory usage and accelerating data retrieval.
- Refined the monitor dashboard of the "Compass" project using React.js. Achieved continuous integration through Docker.

Services

- Area Chair: ICLR'23 Tiny Paper
- PC Member/Reviewer
  - **Conferences**: AAAI'24, NeurIPS'23, NeurIPS'23 Datasets and Benchmarks Track, CIKM'23, KDD'23, AAAI'23, ASONAM'23, ICLR'23 Tiny Paper.
  - **Journals**:
    - ACM Transactions on Information Systems (TOIS);
    - IEEE Transactions on Knowledge and Data Engineering (TKDE);
    - ACM Transactions on Recommender Systems (TORS);
    - International Journal of Data Science and Analytics (JDSA);
    - SCIENCE CHINA Information Sciences (SCIS);
    - ACM Transactions on Social Computing (TSC).
  - **Workshops** SPIGM@ICML 2023.

Honors and Awards

- AAAI Student Scholarship. 2022, 2023
- Microsoft Research "Star of Tomorrow" Award of Excellence. 2021
- UCLA Dean's Honor List for Superior Academic Achievement. 2019 – 2021
  - 5 times: Spring 2019, Winter 2020, Spring 2020, Winter 2021, Spring 2021