Yiqiao Jin (Ahren)

CONTACT

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RESEARCH INTERESTS

- Data Mining, Misinformation Detection, Graph Neural Networks, Natural Language Processing, Explainable AI.

EDUCATION

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

- Ph.D., Computer Science.

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: Misinformation Detection, Graph Neural Network, Data Mining

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

- Research Topics: Explainable AI, Language Modeling, Misinformation Detection, Graph Neural Networks, Learning in Low-Resource (Limited Data) Scenarios.

- Submitted 1 paper to AAAI'23 about robust language model fine-tuning under low-resource scenarios.

- Published two papers on Fake News Detection at AAAI'22 and KDD'22.

- 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 neural networks 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 a multimodal approach for code recommendation based on Heterogeneous Information Networks (HIN) for open source developers. Performed fine-grained analysis of OSS contribution networks through networkx and Gephi.

PUBLICATIONS

- **Yiqiao Jin**, *Yunsheng Bai, Yanqiao Zhu, Yizhou Sun, Wei Wang.* Code Recommendation for Open Source Project Developers *In preparation for WWW'23.*

- **Yiqiao Jin**, *Xiting Wang, Yaru Hao, Yizhou Sun, Xing Xie.* Prototypical Fine-tuning: Towards Robust Performance Under Varying Data Sizes. *submitted to AAAI'23.*

- **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 on Artificial Intelligence (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%

- *Feng Shi,* **Yiqiao Jin**, *Song-Chun Zhu*. VersaGNN: a Versatile Accelerator for Graph Neural Networks. *Preprint, https://arxiv.org/abs/2105.01280.*

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

- PC Member, 37th AAAI Conference on Artificial Intelligence (AAAI-23).   Aug. 2022

- Reviewer, ACM Transactions on Recommender Systems (TORS).   June. 2022

- Reviewer, International Journal of Data Science and Analytics (JDSA).   Jan. 2022

- Reviewer, ACM Transactions on Social Computing (TSC).   Oct. 2021

HONORS AND AWARDS

- AAAI-22 Student Scholarship.   Jan. 2022

- Microsoft Research "Star of Tomorrow" Award of Excellence.   Sep. 2021

- UCLA Dean's Honor List for Superior Academic Achievement.   June 2019 – July 2021
  - 5 times: Spring 2019, Winter 2020, Spring 2020, Winter 2021, Spring 2021