# Yiqiao Jin (Ahren)

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CONTACT

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RESEARCH INTERESTS

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

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

- 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 NeurIPS'22 about robust language model fine-tuning under low-resource scenarios.
- Published two papers on Fake News Detection at top-tier machine learning conferences (AAAI-22 and KDD-22).
- Design "FinerFact", a fine-grained reasoning framework for fake news detection that follows the human's information-processing model.
- Construct a dataset for explainable fake news detection to facilitate relevant research.
- Delivered multiple talks on fact-checking, misinformation detection, and logical 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: Hierarchical Graph-Based Recommender Systems for GitHub Repositories.
- Design recommender systems based on Heterogeneous Information Networks (HIN) for GitHub contribution relations. Analyze and visualize the networks through networkx and Gephi.
- Construct 3 datasets for GitHub contribution and starring relations to facilitate research on open-sourced repositories. The datasets incorporate multi-modal information, including diverse graph nodes (GitHub repos, users, issues, pull requests, comments) and relations (star, fork, watch, contribute, follow).

PUBLICATIONS

- **Yiqiao Jin**, *Yunsheng Bai, Yanqiao Zhu, Yizhou Sun, Wei Wang.* Contributor Recommendation for Open-Sourced Projects. *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