Yuhong Luo

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Education

Rutgers University — **New Brunswick, NJ, USA**
Ph.D. Student in Computer Science — *September 2024 - Now*

University of Massachusetts — **Amherst, MA, USA**
M.S. in Computer Science, 3.97 GPA — *September 2022 - May 2024*

University of Washington — **Seattle, WA, USA**
B.S. double major in Computer Science and ACMS, 3.82 GPA — *September 2016 - March 2019*

Publication

- **Yuhong Luo**, Austin Hoag and Philip S. Thomas. Learning Fair Representations with High-Confidence Guarantees. *arXiv preprint arXiv:2310.15358*, 2023. [pdf]
- **Yuhong Luo** and Pan Li. Scalable and Efficient Temporal Graph Representation Learning via Forward Recent Sampling. In *Learning on Graphs (PMLR)*, 2024. [pdf]
- **Yuhong Luo** and Pan Li. Neighborhood-aware Scalable Temporal Network Representation Learning. In *Learning on Graphs (PMLR)*, 2022. ***Oral (4.6%)***, ***Best Paper Award***. [pdf]

Talk

- Invited to present my work on **Temporal Graph Learning** at *Stanford* (in person), and at the *Temporal Graph Reading Group* (online) hosted jointly by *McGill University, Mila, and University of Mannheim.* [Recording]

Experience

Rutgers — **New Brunswick, NJ, USA**
Graduate Researcher with Prof. Xintong Wang *on AI and economics.* — *September 2024 - Now*
- Meta-game design for analysis of algorithmic tacit collusion at inference time in economic settings.

UMass — **Amherst, MA, USA**
Graduate Researcher with Prof. Philip Thomas *on Fair Representation Learning* (repo) — *February 2023 - September 2023*
- Created a framework that offers **high-confidence fairness guarantees** for representation learning (preprint).

Graduate Researcher with Prof. Hui Guan *on Personalized Federated Learning* (repo) — *September 2022 - December 2022*
- Designed and implemented an algorithm for improving personalization in federated learning.

Purdue & Georgia Tech — **Remote**
Partime Research Intern with Prof. Pan Li *on Temporal Graph Learning* (repo) — *May 2021 - August 2022*
- Created a **temporal graph neural network** that improves SOTA expressiveness and efficiency (paper published).

Airbnb — **San Francisco, CA, USA**
Software Engineer on Marketing Technology — *July 2019 - September 2022*
- Built **personalized marketing content recommendation** models.
- Designed and implemented marketing content building and campaign publishing tools.
- Designed and implemented coupon management and issuance platform.

UW — **Seattle, WA, USA**
Undergraduate Researcher with Prof. Jan Buys *on Natural Language Processing* (repo) — *January 2019 - March 2019*
- Designed and implemented a graph learning algorithm to incorporate **semantic graphs** of sentences as input to **LSTM**.

Teaching Assistant with Prof. Martin Tompa *on Foundations of Computing II* — *September 2018 - March 2019*
- Held teaching sessions on topics including probability, statistics, randomized algorithms, introductory ML.

Meta — **Seattle, WA, USA**
Software Engineer Intern — *July 2018 - September 2018*
- Designed and implemented crawler for ads landing pages and algorithm for ads detection on landing pages.

Yahoo — **San Francisco, CA, USA**
Software Engineer Intern — *July 2017 - September 2017*
- Designed and implemented web services to power Sports App game alerts.