

YUHONG LUO

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Education

University of Massachusetts
M.S. in Computer Science, 3.96 GPA

Amherst, MA, USA
September 2022 - December 2023

University of Washington
B.S. double major in Computer Science and ACMS, 3.82 GPA

Seattle, WA, USA
September 2016 - March 2019

Publication

- **Yuhong Luo**, Austin Hoag and Philip S. Thomas. Learning Fair Representations with High-Confidence Guarantees. *In Submission. arXiv preprint arXiv:2310.15358*, 2023. [\[pdf\]](#)
- **Yuhong Luo** and Pan Li. Neighborhood-aware Scalable Temporal Network Representation Learning. *In Learning on Graphs*, 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

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 ([paper submitted](#)).

Graduate Researcher with PROF. HUI GUAN on Personalized Federated Learning ([repo](#)) *September 2022 - December 2022*

- Created an algorithm for personalized federated learning under **statistical heterogeneity**.

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 *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*

- Implemented crawler for ads landing pages.
- Designed 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.

Technical Skills

Languages: Java, Python, C++, C, Ruby, SQL, Kotlin, php, JavaScript.
Technologies: Deep Learning, NLP, Vision, Statistics, Graphical models, Reinforcement Learning.
Frameworks: PyTorch, TensorFlow, React, Spark.