

# YUHONG LUO

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## Education

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### 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

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- **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

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- 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

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### 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

- Designed and implemented an algorithm for improving personalization in federated learning.

### Purdue & Georgia Tech

Remote

*Parttime 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.

## Technical Skills

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**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.