

# YUHONG LUO

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## Education

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### Rutgers University

*Ph.D. Student in Computer Science*

**New Brunswick, NJ, USA**

*Current Position*

### University of Massachusetts

*M.S. in Computer Science, 3.97 GPA*

**Amherst, MA, USA**

*September 2022 - May 2024*

### 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** and Pan Li. No Need to Look Back: An Efficient and Scalable Approach for Temporal Network Representation Learning. *arXiv preprint arXiv:2402.01964*, 2024. [\[pdf\]](#)
- **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. Neighborhood-aware Scalable Temporal Network Representation Learning. In *Learning on Graphs (PMLR)*, 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 ([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**

*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.