

# Yiling Jia

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## RESEARCH INTEREST

Contextual Bandits, Online Learning to Rank, Explainable and Fair Machine Learning.

## EDUCATION

### University of Virginia

Ph.D. in Computer Science, GPA: 3.976

Advisor: Hongning Wang

Focus: Learning with Efficient Exploration, Fair OL2R, Explainable Recommendation.

Charlottesville, VA

Aug 2016 - Present

### National Tsing Hua University

M.Sc. in Computer Science

Advisor: Che-Rung Lee

Thesis: Vector Field Model for Trajectory Data and Its Application in Similarity Query

Taiwan, ROC

Sep 2014 - May 2016

### Nankai University

B.S. in Computer Science

Tianjin, China

Sep 2009 - Jun 2013

## INTERNSHIP EXPERIENCE

### Facebook, Seattle, WA

Machine Learning Intern, Search Team

Focus: Unbiased Learning to Rank with Biased Feedback in Group Ranking.

Jun 2020 - Sep 2020

### Walmart Labs, Sunnyvale, CA

Research Intern, Personalization Team

Focus: Online Learning to Rank in e-Commerce Recommendation.

Jun 2019 - Sep 2019

## AWARDS & SCHOLARSHIP

Student Travel Awards

- Student Scholarship to WWW 2021.
- ACM SIGIR student travel award to CIKM 2019.
- NSF student travel award to WWW 2019.
- ACM SIGIR student travel award to SIGIR 2018.

Hong-Hai scholarship, National Tsing Hua University.

2014-2016

Excellent Undergraduate Thesis Award, Nankai University.

2013

First prize, National Challenge Cup Scientific Competition, Tianjin, China.

2013

First class scholarship, for outstanding students, Nankai University.

2010-2012

## PUBLICATIONS

**Yiling Jia**, Hongning Wang. “*Calibrating Explore-Exploit Trade-off for Fair Online Learning to Rank*”. Under review.

**Yiling Jia**, Weitong Zhang, Dongruo Zhou, Quanquan Gu, Hongning Wang. “*Learning Neural Contextual Bandits through Perturbed Rewards*”. Under review.

**Yiling Jia**, Hongning Wang. “*Learning Neural Ranking Models Online from Implicit User Feedback*”. Under review.

**Yiling Jia**, Huazheng Wang, Stephen Guo, Hongning Wang. “*PairRank: Online Pairwise Learning to Rank by Divide-and-Conquer*”. **WWW 2021 (Nominated for the Best Research Paper Award at the Web Conference 2021)**.

**Yiling Jia**, Nipun Batra, Hongning Wang, Kamin Whitehouse. “*Active Collaborative Sensing for Energy Breakdown*”. In Proceedings of the 28th ACM International Conference on Information and Knowledge Management. **CIKM 2019**.

Yiyi Tao, **Yiling Jia**, Nan Wang, Hongning Wang. “*The FacT: Taming Latent Factor Models for Explainability with Factorization Trees*”. In Proceedings of the 42nd International ACM SIGIR Conference on Research and Development in Information Retrieval. **SIGIR 2019**.

**Yiling Jia**, Nipun Batra, Hongning Wang, Kamin Whitehouse. “*A Tree-Structured Neural Network for Household Energy Breakdown*”. In The World Wide Web Conference. **WWW 2019**.

Nan Wang, **Yiling Jia**, Yue Yin, Hongning Wang. “*Explainable Recommendation via Multi-Task Learning in Opinionated Text Data*”. The 41st International ACM SIGIR Conference on Research Development in Information Retrieval. **SIGIR 2018**.

Nipun Batra, **Yiling Jia**, Hongning Wang, Kamin Whitehouse. “*Transferring Decomposed Tensors for Scalable Energy Breakdown across Regions*”. The Thirty-Second AAAI Conference on Artificial Intelligence. **AAAI 2018**.

## TUTORIALS

Huazheng Wang, **Yiling Jia**, Hongning Wang. “*Interactive Information Retrieval with Bandit Feedback*”. **SIGIR 2021**.

## PROFESSIONAL SERVICE

### Reviewer & Subreviewer

ACM International Conference on Web Search and Data Mining (WSDM)	2022
AAAI Conference on Artificial Intelligence (AAAI)	2021
Intl. Conference on Research and Development in Information Retrieval (SIGIR)	2021
AAAI Conference on Artificial Intelligence (AAAI)	2020

### Teaching Assistant

- Program and Data Representation (CS2150)	Aug 2016 - May 2017
- Computer Architecture (CS3330)	Aug 2016 - May 2017
- Text Mining (CS6501)	Aug 2018 - Dec 2018

### Volunteer

ACM SIGIR 2018 at Ann Arbor, Michigan.	Jul 2018
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