

# JIALIN LI

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## EDUCATION & CURRENT POSITION

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<b>Department of Math &amp; Statistics, University of Massachusetts, Amherst</b> Visiting Assistant Professor	2024 - Present
<b>Rotman School of Management, University of Toronto</b> Postdoctoral Research Fellow	2021 - 2024
<b>University of Maryland, College Park</b> Ph.D., Applied Mathematics & Statistics, and Scientific Computation	2016 - 2021
<b>Nankai University</b> B. S., Statistics	2012 - 2016

## RESEARCH INTERESTS

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- Uncertainty quantification, stochastic optimization, statistical learning
- Applications with the theme of social good: privacy regulation, medical experimental design

## PUBLICATIONS

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- Jialin Li, and Ilya O. Ryzhov (2024), Moderate deviations inequalities for Gaussian process regression. *Journal of Applied Probability* 61(1): 172-197. [Link](#)
- Jialin Li, and Ilya O. Ryzhov (2022), Convergence rates of epsilon-greedy global optimization under radial basis function interpolation. *Stochastic Systems* 13(1): 59-92. [Link](#)

## WORKING PAPERS

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- Ningyuan Chen, Ming Hu, Jialin Li, and Sheng Liu, Data privacy in pricing: Estimation bias and implications. To be submitted to *Manufacturing & Service Operations Management*. [Link](#)

## WORK IN PROGRESS

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- Ningyuan Chen, Ming Hu, Jialin Li, and Sheng Liu, Incentivizing greedy customers to explore.
- Furong Huang, Jialin Li, and Xuchen You, Guaranteed simultaneous asymmetric tensor decomposition via alternating subspace iteration. Available on arXiv. [Link](#)

## PRESENTATIONS

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- “Data Privacy in Pricing: Estimation Bias and Implications,” Rotman TD Management Data and Analytics Lab Grant Research Roundtable, 2024
- “Data Privacy in Pricing: Estimation Bias and Implications,” INFORMS Annual Meeting, Phoenix, 2023

- “Data Privacy in Pricing: Estimation Bias and Implications,” INFORMS Manufacturing and Service Operations Management Conference, Montreal, 2023
- “Pricing Under Privacy Protection,” INFORMS Annual Meeting, Indianapolis, 2022
- “Incentivizing Myopic Customers to Explore,” CORS/INFORMS International Conference, Vancouver, 2022
- “Moderate Deviations Inequalities for Gaussian Process Regression,” INFORMS Annual Meeting, Virtual, 2021
- “Epsilon-greedy Global Optimization Under Radial Basis Function Interpolation,” Rotman Young Scholar Seminar, Virtual, 2021
- “Convergence Rates of Global Optimization Under Randomized Sampling,” INFORMS Annual Meeting, Seattle, Washington, 2019

## INDUSTRY EXPERIENCE

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### **Data Scientist Intern, Google**

June - Aug. 2021

- Improved the performance of the AB test model for analyzing the heterogeneous impact of launched features on the advertisement revenue or impressions of YouTube creator’s channels
- Proposed score-based methods for model selection based on real experiment data

### **Quantitative Intern, Wells Fargo**

July - Aug. 2020

- Audited several asset-pricing models and reviewed technique reports on model development, model parameter calibration, model validation and performance monitoring plan
- Completed Quantitative Technical Report to provide comments and suggestions for model development and model validation teams

## FUNDING & AWARDS

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- TD Management Data and Analytics Lab Research Grant (4000CAD), Rotman School of Management, 2023
- New Pilot Postdoc Funding (2000CAD), Rotman School of Management, 2022
- Graduate Student Summer Research Fellowship (5000USD), University of Maryland, 2019

## TEACHING EXPERIENCE

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### **Course Instructor, University of Massachusetts, Amherst**

- Statistics I (Undergraduate, Fall 2024)

### **Course Instructor, University of Maryland, College Park**

- Introduction to Math Modeling and Probability (Undergraduate, Spring 2017)

### **Teaching Assistant, University of Maryland, College Park**

- Undergraduate Course Discussion Session Instructor (to give lectures and lead Q&A discussions in the complementary sessions for regular course sessions): Linear Algebra (Spring 2021), Applied Probability and Statistics (Spring & Fall 2020), Calculus III (Fall 2018), Linear Algebra for Scientists and Engineers (Spring 2018, Fall 2019), Calculus II (Fall 2017)
- PhD Course Grader: Stochastic Optimization (Spring 2020), Stochastic Process (Spring 2019), Linear Model (Spring 2019)

## **ACADEMIC SERVICE**

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### **Ad-Hoc Reviewer**

- Operations Research (OR), Operations Research Letters (ORL), Winter Simulation Conference (WSC), International Conference on Machine Learning (ICML), International Joint Conference on Artificial Intelligence (IJCAI), European Conference on Artificial Intelligence (ECAI)