

Hossein Nekouyan Jazi

hossein-nekouyan.github.io

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Summary

Recent M.Sc. graduate in Computer Science from the **University of Alberta**; supervised by Dr. Xiaoqi Tan. Currently a **full-time Research Assistant** in the Department of Computing Science at UAlberta, working with Dr. Tan and Dr. Bo Sun. Publications include work appearing at **WWW**, **WINE**, **NeurIPS**, and **ACM SIGMETRICS**. Actively seeking **Ph.D.** positions.

Research Interests

- Decision making under uncertainty
- Computational economics (Financial econometrics)
- Learning theory
- Stochastic optimization

Education

- Jan 2023– **M.Sc., Computer Science**, University of Alberta, Edmonton, Canada, GPA: 3.9/4.0
Mar 2025 *Thesis: Randomized Posted Pricing and Rounding Schemes for Online Selection and Matching* (Nominated for best thesis award (TBA))
Supervisor: Dr. Xiaoqi Tan
Coursework: Theoretical Foundations of Reinforcement Learning; Approximation Algorithms; Randomized Algorithms; Optimization and Decision-Making under Uncertainty
- Sep 2018– **B.Sc., Computer Science**, University of Tehran, Tehran, Iran, GPA: 18.41/20.0
Jul 2022 *Coursework:* Graph Theory and Applications; Number Theory; Algebra I; Strategic Games I; Fundamentals of Logic; Design and Analysis of Algorithms; Statistical Methods; Theory of Computation; Introduction to Bioinformatics; Differential Equations

Publications

Preprints

- 2025 **Posted Pricing for Online Selection: Limited Price Changes and Risk Sensitivity.**
Hossein Nekouyan Jazi, Bo Sun, Raouf Boutaba, Xiaoqi Tan.
- 2025 **Online Rounding Schemes for k -Rental Problems.**
Hossein Nekouyan Jazi, Bo Sun, Raouf Boutaba, Xiaoqi Tan.

Peer-reviewed Conference Publications

- 2025 **Online Multi-Class Selection with Group Fairness Guarantee.**
NeurIPS 2025.
Faraz Zargari, **Hossein Nekouyan Jazi**, Bo Sun, Xiaoqi Tan.
- 2025 **Online Allocation with Multi-Class Arrivals: Group Fairness vs. Individual Welfare.**
ACM SIGMETRICS 2025.
Faraz Zargari, **Hossein Nekouyan Jazi**, Bo Sun, Xiaoqi Tan.

- 2025 **Posted Price Mechanisms for Online Allocation with Diseconomies of Scale.**
The Web Conference (WWW 2025).
Hossein Nekouyan Jazi, Bo Sun, Raouf Boutaba, Xiaoqi Tan.
- 2024 **Static Pricing for Online Selection Problem and Its Variants.**
International Conference on Web and Internet Economics (WINE 2024).
Bo Sun, **Hossein Nekouyan Jazi**, Xiaoqi Tan, Raouf Boutaba.
- 2024 **Online Conversion with Group Fairness Constraints.**
ACM SIGMETRICS Performance Evaluation Review.
Hossein Nekouyan Jazi, Faraz Zargari, Bo Sun, Xiaoqi Tan.

Working Projects

The Max k -Colorable Subgraph Problem on Unit Disk and Comparability Graphs

References

Dr. Xiaoqi Tan — Assistant Professor, Department of Computing Science, University of Alberta
<https://xiaoqitan.org/>

Dr. Zachary Friggstad — Associate Professor, Department of Computing Science, University of Alberta
<https://friggstad.github.io/>

Dr. Bo Sun — Assistant Professor, School of Electrical Engineering and Computer Science, University of Ottawa
<https://sunbo-online.github.io/>

Research Experience

- Apr 2025– Present **Full-time Research Assistant**, Alberta Machine Intelligence Institute (Amii), University of Alberta, Edmonton, Canada
Supervisor: Dr. Xiaoqi Tan
- Jan 2023– Jan 2025 **Graduate Research Fellowship**, University of Alberta, Edmonton, Canada
Supervisor: Dr. Xiaoqi Tan

Teaching Experience

- Jan 2023– **Graduate Teaching Assistant**, University of Alberta, Edmonton, Canada
- Apr 2025 Algorithm I (four terms) and Algorithm II (one term): teaching, tutorials, marking, student support.
- Dec 2019– **Teaching Assistant**, University of Tehran, Tehran, Iran
- Apr 2022 Courses: Advanced Programming; Data Structures and Algorithms; Design and Analysis of Algorithms; Graph Theory; Introduction to Bioinformatics.

Skills

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| Programming | Python, Gurobi, C++, Java, L ^A T _E X |
| Tools | Git, Linux, Overleaf, Jupyter, VS Code |
| Languages | English (fluent), Persian (native) |