Hossein Nekouyan Jazi

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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– Mar 2025	**M.Sc., Computer Science**, *University of Alberta*, Edmonton, Canada, GPA: 3.9/4.0 *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– Jul 2022	**B.Sc., Computer Science**, *University of Tehran*, Tehran, Iran, GPA: 18.41/20.0 *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, 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–Apr 2025	**Graduate Teaching Assistant**, *University of Alberta*, Edmonton, Canada Algorithm I (four terms) and Algorithm II (one term): teaching, tutorials, marking, student support.
Dec 2019–Apr 2022	**Teaching Assistant**, *University of Tehran*, Tehran, Iran Courses: Advanced Programming; Data Structures and Algorithms; Design and Analysis of Algorithms; Graph Theory; Introduction to Bioinformatics.

Skills

Programming	Python, Gurobi, C++, Java, LaTeX
Tools	Git, Linux, Overleaf, Jupyter, VS Code
Languages	English (fluent), Persian (native)