Ali Mortazavi

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Education ____

University of Victoria

Ph.D. in Computer Science, GPA: 9/9

Victoria, BC, Canada Jan 2021 – Expected Aug 2026

• Research focus: Game Theory, Sequential Prediction, Adaptive Machine Learning

Amirkabir University of Technology

M.Sc. Artificial Intelligence

B.Sc. Computer Software Engineering

Tehran, Iran

Sept 2017 - Sept 2020

Sept 2013 - Sept 2017

Publications _

- Junpei Komiyama, Nishant Mehta, and Ali Mortazavi. "No-Regret Incentive-Compatible Online Learning under Exact Truthfulness with Non-Myopic Experts" ACM Conference on Economics and Computation, 2025.
- Ali Mortazavi, Junhao Lin, and Nishant Mehta. "On the Price of Exact Truthfulness in Incentive-Compatible Online Learning with Bandit Feedback" *International Conference on Artificial Intelligence and Statistics*. PMLR, 2024.
- Cristóbal Guzmán, Nishant Mehta, and Ali Mortazavi. "Best-Case Lower Bounds in Online Learning" Advances in Neural Information Processing Systems, 34 (2021).

Game Theory and Algorithmic Analysis Experience ______

PhD Research Assistant

Jan 2021 - Present

Machine Learning Theory Group, University of Victoria

· Reputation-Based Sequential Forecasting

(Game Theory, Information Elicitation)

- Co-designed a strategy-proof algorithm that sequentially aggregates forecasts over T rounds among reputation-seeking forecasters.
- Contributed in proving the algorithm converges to the best forecaster at the optimal $1/\sqrt{T}$ rate. This result resolved an open question in the field.
- Extended the analysis of the algorithm for the partial information (Multi-armed bandits) setting.
- Published in ACM Conference on Economics and Computation EC 2025
- · On Aggregating the Selection-seeking forecasters advice

(Incentives, Partial feedback)

- Investigated and identified the limitation of the only known strategy-proof sequential forecaster selector algorithm.
- Used mathematical tools and statistical techniques to prove the inherent performance limitation of the algorithm.
- Published in AISTATS 2024
- Adaptive Decision-Making While Preserving Group Fairness

(FTRL, Fairness)

- Contributed to identifying a class of algorithms with mathematically provable guarantees on preserving fairness without prior knowledge of demographic group sizes.
- Characterized environments in which the decision maker can introduce the highest degree of disparity among groups.
- Published and presented at NeurIPS 2021
- · Participatory Budgeting Problem

(Voting, Representative Allocation)

- Surveyed existing areas of research and applied work on vote aggregation in the participatory budgeting problem with a focus on examining various notions of fairness and representative allocation rules. Presented the findings.

Applied Machine Learning Experience _____

(Python, Image Processing)

Optimized image denoising and segmentation with Simulated Annealing and Markov Random Fields. Compared performance across HSV, RGB, and Grayscale color spaces.

• Text Summarization (Report ∠, GitHub ∠):

(Python, TensorFlow, NLP)

Developed a graph-based text summarization method using word2vec and PageRank. Evaluated the performance with word-level and sentence-level representations using ROUGE metrics.

Internship

Shanghai University of Finance and Economics

Research Internship at Institute for Theoretical Computer Science

Shanghai, China August 2019 - September 2019

• Project . Applied various approximation and probabilistic techniques to measure the performance of a novel Online Stochastic Matching algorithm.

Teaching Experience _____

Teaching Assistant

Jan 2021 -

Computer Science Department

University of Victoria

- Notable Responsibilities: Designed and taught labs and tutorials, helped prepare new TAs with teaching tasks
- Courses: Algorithms and Data Structure II, Theory of Computation, Data Mining, Collective Decision-Making, Advanced Data Structure and Optimization, Machine Learning Theory.

Awards _

• AISTATS 2025 Best Reviewer Award 2025

• University of Victoria Graduate Awards for Top-Performing Students 2021-2024

 University of Victoria Graduate TA Award 2021-2024

• Charles S. Humphrey Graduate Student Award 2022

• UVic PhD Fellowship Award 2021-2022

• Ranked 3rd (out of 100) in terms of Cumulative GPA among students of computer engineering, 2013 Entrance 2017

• Awarded direct admission to the M.Sc. program in Artificial Intelligence at Amirkabir University of Technology as a Talented Undergraduate Student 2017

Technical Skills _

Programming Languages: Python, Java, C++

Frameworks & Libraries: NumPy, Pandas, Matplotlib, TensorFlow, scikit-learn,

Volunteer Activities _

Reviewer for ICML 2025, AISTATS 2025, NeurIPS 2024

References __

Prof. Nishant Mehta

PhD Supervisor

Email: nmehta@uvic.ca

Homepage: https://web.uvic.ca/~nmehta

Prof. Valerie King

PhD Supervisory Committee

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