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Alireza Kazemipour

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EDUCATION

University of Alberta, Edmonton, Canada
PhD., Computing Science
Advisors: Michael Bowling

Enrolled: Sep 2025 — Expected: NA

University of Alberta, Edmonton, Canada
M.Sc., Computing Science ¹
Thesis: Model-Based Exploration in Markov Decision Processes
Advisors: Matthew E. Taylor, Michael Bowling

Enrolled: Jan 2023 — Expected: Aug 2025

K. N. Toosi University of Technology, Tehran, Iran
B.Sc., Electrical-Control Engineering

Enrolled: Sep 2015 — Graduated: Sep 2020

RESEARCH INTERESTS

- Theoretical understanding of machine learning topics especially around sequential decision-making:
 - Reinforcement Learning: Exploration-Exploitation Dilemma, Continual Learning
 - Game Theory: Hindsight Rationality, No-Regret Learning
 - Online Learning: Online Convex Optimization

PUBLICATIONS

- **Model-Based Exploration in Truthful Monitored Markov Decision Processes** [Paper]
Alireza Kazemipour, Simone Parisi, Matthew E. Taylor, Michael Bowling
In International Conference on Machine Learning (ICML), 2025
Full paper acceptance rate: 26.9%
- **Beyond Optimism: Exploration With Partially Observable Rewards** [Paper]
Simone Parisi, Alireza Kazemipour, Michael Bowling
In Advances in Neural Information Processing Systems (NeurIPS), 2024
Full paper acceptance rate: 25.8%
- **Monitored Markov Decision Processes** [Paper]
Simone Parisi, Montaser Mohammedalamen, Alireza Kazemipour, Matthew E. Taylor, Michael Bowling
In Autonomous Agents and Multi-Agent Systems (AAMAS), 2024
Full paper acceptance rate: 25%

RESEARCH EXPERIENCE

- **Graduate Research Assistant**, Department of Computing Science Mar 2023 - Present
University of Alberta, Edmonton, Canada
 - A member of:
 - * *Alberta Machine Intelligence Institute (Amii)*
 - * *Reinforcement Learning and Artificial Intelligence Lab (RLAI Lab)*
 - * *Intelligent Robot Learning Lab (RIL Lab)*
 - Doing research in the area of reinforcement learning in the face of partially observable rewards
- **Under Graduate Research Assistant**, KN2C Robotics Team Sep 2017 - Jul 2019
K. N. Toosi University of Technology, Tehran, Iran
 - Developed computer vision algorithms suitable for indoor drones to navigate through a prespecified path autonomously without the pilot's aid.

TEACHING EXPERIENCE

- Teaching Assistant, **Introduction to Reinforcement Learning** (CMPUT365) Jan-Apr 2025, 2025
University of Alberta, Edmonton, Canada Instructor: Csaba Szepesvári
 - Conducting tutorial sessions and holding office hours for helping students
 - Designing assignments and final/midterm exams for more than 180 students

¹**Courses:** Reinforcement Learning II: A, Modeling Strategic Behavior: A, Theoretical Foundations of Machine Learning: C+, Optimization and Decision Making under uncertainty: A+.

- Teaching Assistant, **Search and Planning in AI** (CMPUT366) Jan-Apr 2023, 2024
University of Alberta, Edmonton, Canada Instructor: Levi Lelis
 - Conducting monthly lab sessions for helping students
 - Marking assignments and final/midterm exams for more than 120 students
- Teaching Assistant, **Fundamentals of Computer Vision** Feb-Jul 2020
K. N. Toosi University of Technology, Tehran, Iran Instructor: Behrooz Nasihatkon
 - Conducting oral assignments/exams
 - Designing an assignment on using classic statistical learning methods for the digit classification problem
- Teaching Assistant, **Signals and Systems** Sep 2019 - Feb 2020
K. N. Toosi University of Technology, Tehran, Iran Instructor: Dr. Maryam mohebbi
 - Conducting weekly lab sessions
 - Marking assignments

Community Service

- **Reviewer**, *ICML* Feb 2025
- **Vice President**, *Computing Science Graduate Students' Association* May 2023 - April 2024
University of Alberta, Edmonton, Canada
 - Organized the welcome event for more than 110 newly admitted graduate student plus more than 60 senior students
 - Organizing monthly recreational activities for students, including but not limited to:
 - * Group trip to Waterpark @ West Edmonton Mall,
 - * Group trip to tickets for Taste of Edmonton
 - * Group trip to Activate
 - * Annual BBQ gathering of the department of Computing Science
- **Co-Organizer**, *RLAI Tea Time Talks* Jun - Aug 2023
University of Alberta, Edmonton, Canada
 - Preparing refreshments for in-person audience
 - Preparing a stable remote connection for remote audience and recording the meeting
- **Co-Organizer**, *Introduction to JAX library workshop* Jan 2024
Alberta Machine Learning Institute, Edmonton, Canada
 - Disseminating the event's details to the graduate students of the Computing Science department @ UofA
 - Inviting and organizing panelist
 - Preparing the overview of the contents that panelist should present and discuss

Honors and Awards

- **Mary Louise Imrie Graduate Student Award.** \$2000
University of Alberta, Edmonton, Canada 2025
- **3rd place in the Unmanned Aerial Vehicle League among 16 teams.** Certificate]
The RoboCup Iran Open Competitions 2018

Talks

- **Model-Based Exploration in Truthful Monitored Markov Decision Processes** [Webpage]
Workshop on Advances in Machine Learning Theory, Upper Bound, Edmonton, Canada May 2025
- **Optimism & Mon-MDPs** [Video]
Tea Time Talk, RLAI lab and Amii, Edmonton, Canada Jul 2024