

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 Science¹
Thesis: **Model-Based Exploration in Markov Decision Processes**
Advisors: Matthew E. Taylor, Michael Bowling

Enrolled: Jan 2023 — Graduated: 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 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 Mohammadalamen, 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
University of Alberta, Edmonton, Canada

Mar 2023 - Present

- 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
K. N. Toosi University of Technology, Tehran, Iran

Sep 2017 - Jul 2019

- Developed computer vision algorithms suitable for indoor drones to navigate through a prespecified path autonomously without the pilot's aid.

TEACHING EXPERIENCE

Teaching Assistant, **Machine Learning I** (CMPUT267)
University of Alberta, Edmonton, Canada

Sep-Dec 2025
Instructor: Volodymyr Tkachuk

- Office hours for helping students
- Marking assignments and proctoring final/midterm exams for more than 300 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, **Introduction to Reinforcement Learning** (CMPUT365)
University of Alberta, Edmonton, Canada

Jan-Apr 2025
Instructor: **Csaba Szepesvári**

- Conducting tutorial sessions and holding office hours for helping students
- Designing assignments and final/midterm exams for more than 180 students

Teaching Assistant, **Search and Planning in AI** (CMPUT366)
University of Alberta, Edmonton, Canada

Jan-Apr 2023, 2024
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**
K. N. Toosi University of Technology, Tehran, Iran

Feb-Jul 2020
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**
K. N. Toosi University of Technology, Tehran, Iran

Sep 2019 - Feb 2020
Instructor: **Dr. Maryam mohebbi**

- Conducting weekly lab sessions
- Marking assignments

Community Service

Co-Reviewer, *ICML*

Feb 2025

Co-Reviewer, *ICLR*

Oct 2025

Vice President, *Computing Science Graduate Students' Association*
University of Alberta, Edmonton, Canada

May 2023 - April 2024

- 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*
University of Alberta, Edmonton, Canada

Jun - Aug 2023

- 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*
Alberta Machine Learning Institute, Edmonton, Canada

Jan 2024

- 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

University of Alberta Graduate Recruitment Scholarship
University of Alberta, Edmonton, Canada

\$5000
Sep 2025

Mary Louise Imrie Graduate Student Award
University of Alberta, Edmonton, Canada

\$2000
Jun 2025

3rd place in the Unmanned Aerial Vehicle League among 16 teams
The RoboCup Iran Open Competitions

[Certificate]
2018

Talks

Model-Based Exploration in Monitored Markov Decision Processes
Workshop on Advances in Machine Learning Theory, Upper Bound, Edmonton, Canada

[Webpage]
May 2025

Optimism & Mon-MDPs
Tea Time Talk, RLAI lab and Amii, Edmonton, Canada

[Video]
Jul 2024