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Alireza Kazemipour

kazemipo@ualberta.ca — alirezakazemipour.github.io

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 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
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**

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

- Office hours for helping students
- Marking assignments and proctoring final/midterm exams for more than 300 students
- Teaching Assistant, **Introduction to Reinforcement Learning** (CMPUT365) Jan-Apr 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
- 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