

MEHRAN AGHABOZORGI

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RESEARCH INTERESTS

Generative Modeling: efficient generation, sample efficiency, multimodal generation
Reinforcement Learning: world models, model-based RL, offline RL, sample-efficient continuous control
Multimodal & Robot Learning: vision-language-action (VLA) policies, RL for VLAs, efficient inference for large multimodal / transformer models

EDUCATION

Simon Fraser University Vancouver, Canada
Ph.D. in Computer Science — APEX Lab (Advisor: Ke Li); expected Fall 2026 2021 – present
• Affiliated with the Alberta Machine Intelligence Institute (Amii).
Isfahan University of Technology Isfahan, Iran
B.Sc. in Computer Engineering — GPA 18.29/20 (ranked 1st) 2015 – 2020

EXPERIENCE

Research Intern Jan 2026 – Sep 2026 (expected)
RBC Borealis Vancouver, Canada
• Accelerating Vision-Language-Action (VLA) policies whose inference cost limits real-time robotic control.
• Developing attention-guided token pruning and compressed-sensing token compression to cut latency and compute while preserving task success.
Research Intern Aug – Oct 2019
Max Planck Institute for Informatics Saarbrücken, Germany
• Enhanced the preprocessing phase of the SPASS SAT solver with Prof. Christoph Weidenbach; demonstrated improvements on competition-grade benchmarks.
Senior Developer 2017 – 2020
Morvarid
• Shipped production systems in Python, Java, Scala, and JavaScript: an anonymous, verifiable voting system and a security-focused cloud for end-to-end encrypted file storage.
• Led engineering for Ergo Pool (mining backends and payout automation) on the Ergo blockchain.

PAPERS

MoCQL: Model-based Conservative Q-Learning with Extrapolation Scores 2026
Mehran Aghabozorgi, Ke Li
Under review at Conference on Neural Information Processing Systems (NeurIPS)
WIMLE: Uncertainty-Aware World Models with IMLE for Sample-Efficient Continuous Control 2026
Mehran Aghabozorgi, Yanshu Zhang, Alireza Moazeni, Ke Li
International Conference on Learning Representations (ICLR)
IMLE-VLA: Fast Single-Step Action Generation for Vision-Language-Action Policies 2026
Kian Hosseinkhani, Qinhe Peng, George Shramko, Mehran Aghabozorgi, Jianing Qian, Tristan Engst, Alireza Moazeni, Dinesh Jayaraman, Ke Li
IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)
P-CORE: Self-Supervised Surface Consistency for Point-Based Neural Editing 2026
Yanshu Zhang, Shichong Peng, Mehran Aghabozorgi, Alireza Moazeni, Ke Li
European Conference on Computer Vision (ECCV)
Adaptive IMLE for Few-shot Pretraining-free Generative Modelling 2023
Mehran Aghabozorgi, Shichong Peng, Ke Li
International Conference on Machine Learning (ICML)

TECHNICAL SKILLS

Programming: Python, C++, Scala, Java, JavaScript

ML & Deep Learning: PyTorch, JAX, distributed training (DDP, FSDP)

RL & Simulation: MuJoCo, DeepMind Control, MyoSuite

AWARDS & SCHOLARSHIPS

- Helmut & Hugo Eppich Family Graduate Scholarship, Simon Fraser University (2026).
- Ph.D. Research Scholarship, Simon Fraser University — multiple terms (2024–2025).
- Graduate Fellowship, Simon Fraser University — multiple terms (2021–2024).
- ACM-ICPC West Asia Regional — **8th** (40th, Team TRIO) and **9th** (41st, Team Valar Geekolous).
- Ranked **2nd**, nationwide ICPC competition 2017 (Team Valar Geekolous).
- Nationwide AI Challenge (UIAI) — ranked **1st** (2018) and **2nd** (2017).

ACADEMIC SERVICE

Reviewer: ICLR 2026, NeurIPS 2026, ICML 2026, ECCV 2026, ICCV 2025.