

Mehran Shakerinava

School of Computer Science
McGill University
3480 University St, Montréal, Québec
H3A 0E9

mehran.shakerinava@mail.mcgill.ca
mehran.shakerinava@mila.quebec
+1(438)881-3645

- EDUCATION
- ◇ **Ph.D. in Computer Science** 2021 – Now
School of Computer Science and Mila
McGill University, Montréal, Québec
Supervised by Siamak Ravanbakhsh
GPA: 4/4
 - ◇ **M.Sc. in Computer Science** 2020 – 2021
School of Computer Science and Mila
McGill University, Montréal, Québec
Supervised by Siamak Ravanbakhsh
Fast-tracked to Ph.D.
 - ◇ **B.Sc. in Computer Engineering** 2014 – 2019
Department of Computer Engineering
Sharif University of Technology, Tehran, Iran
GPA: 17.41/20 (150 credits)
- RESEARCH INTERESTS
- ◇ Differentiable self-organizing systems
 - ◇ Symmetry and invariance in deep representation learning
- PUBLICATIONS
- ◇ **M. Shakerinava**, and S. Ravanbakhsh. “Utility Theory for Sequential Decision Making.” *International Conference on Machine Learning (ICML)*. PMLR, 2022.
 - ◇ **M. Shakerinava**, AK. Mondal, and S. Ravanbakhsh. “Transformation Coding: Simple Objectives for Equivariant Representations.” *arXiv preprint arXiv:2202.10930*, 2022.
 - ◇ **M. Shakerinava**, and S. Ravanbakhsh. “Equivariant networks for pixelized spheres.” *International Conference on Machine Learning (ICML)*. PMLR, 2021.
 - ◇ M. Bakhshalipour, **M. Shakerinava**, F. Golshan, A. Ansari, P. Lotfi-Karman, and H. Sarbazi-Azad, “A Survey on Recent Hardware Data Prefetching Approaches with An Emphasis on Servers.” *arXiv preprint arXiv:2009.00715*, 2020.
 - ◇ F. Golshan, M. Bakhshalipour, **M. Shakerinava**, A. Ansari, P. Lotfi-Kamran, and H. Sarbazi-Azad, “Harnessing Pairwise-Correlating Data Prefetching With Runahead Metadata.” *Computer Architecture Letters (CAL)*, 2020.
 - ◇ M. Bakhshalipour, **M. Shakerinava**, P. Lotfi-Kamran, and H. Sarbazi-Azad, “Bingo Spatial Data Prefetcher.” *International Symposium on High-Performance Computer Architecture (HPCA)*, 2019.
- WORKSHOP PAPERS
- ◇ **M. Shakerinava**, M. Bakhshalipour, P. Lotfi-Kamran, and H. Sarbazi-Azad, “Multi-Lookahead Offset Prefetching,” in *The Third Data Prefetching Championship (DPC3)*, in conjunction with *International Symposium on Computer Architecture (ISCA)*, 2019.

- ◇ M. Bakhshalipour, **M. Shakerinava**, P. Lotfi-Kamran, and H. Sarbazi-Azad, “Accurately and Maximally Prefetching Spatial Data Access Patterns with Bingo,” in *The Third Data Prefetching Championship (DPC3)*, in conjunction with *International Symposium on Computer Architecture (ISCA)*, 2019.

HONORS AND AWARDS	◇ Kharusi Family International Science Fellowship <i>McGill University</i> Valued at 7500\$	2020
	◇ 1st Place (among 30,000 participants) <i>Iran’s National Master’s Entrance Exam</i> Computer Engineering track, AI/Robotics major	2019
	◇ 2nd and 3rd Place (1st and 2nd Place in Multi-Core Setting) <i>The Third Data Prefetching Championship (DPC3) at ISCA 2019</i>	2019
	◇ 1st Place Programming Contest at Iran’s 3rd Python Conference (<i>PyCon 2016</i>)	2016
	◇ Silver Medal (Ranked 15 among 10,000) <i>21st Iranian National Olympiad in Informatics</i>	2012

TEACHING EXPERIENCE	◇ Teaching Assistant <i>Fall 2022 - Theory of Computation</i> McGill University, Montreal, Canada Currently in progress.	
	◇ Teaching Assistant <i>Winter 2022 - Probabilistic Graphical Models</i> McGill University, Montreal, Canada Graded assignments and held office hours.	
	◇ Teaching Assistant <i>Spring 2018 and Spring 2019 - Artificial Intelligence</i> Sharif University of Technology, Tehran, Iran Designed and graded assignments. Held recitation classes for clarifying and solving assignments.	
	◇ Teaching Assistant <i>Fall 2016 - Advanced Programming</i> Sharif University of Technology, Tehran, Iran Held a recitation class. Designed and graded a quiz and a programming assignment.	
	◇ Instructor <i>Informatics Olympiad (2012 – 2015)</i> NODET High-School Taught topics on Combinatorics, Graph Theory, Algorithms, and Programming.	

PROFESSIONAL SERVICE	◇ Reviewer NeurIPS 2022.	
	◇ Reviewer Montreal AI Symposium (MAIS) 2022.	