Mohammad Reza Samsami

M.Sc. Student · Computer Science / Artificial Intelligence

Mila - Quebec Al Institute / Université de Montréal

🔀 mohammad-reza.samsami@mila.quebec 🌴 www.mrsamsami.github.io 🖸 mrsamsami 🛅 moham	madrezasamsami	
Research Interests		
(Deep) Reinforcement Learning, Causality, Bayesian Machine Learning, Scaling Laws, Reasoning		
Education		
Mila - Quebec AI Institute / Université de Montréal	Montréal, Canada	
M.Sc. IN COMPUTER SCIENCE		
Supervisors: Prof. Sarath Chandar, Prof. Irina Rish CRA 4 1 / 4 2		
• GPA: 4.1 / 4.3 Sharif University of Technology	Tehran, Iran	
B.Sc. in Computer Science		
• GPA: 18.18 / 20		
Honors & Grants		
2015 Silver Medal in Iranian National Olympiad in Informatics (INOI), Young Scholar Club		
2019 Granted the Travel and Conference Fund , Association for Computational Linguistics		
2016 Ranked Top 0.3% in Iran's Universities Entrance Exam,		
2015 Fellowship , Iranian National Elites Foundation		
2019 Fellowship , Association for Computational Linguistics		
Publications		
M. R. Samsami, M. Bahari, S. Salehkaleybar, A. Alahi. 2021. Causal Imitative Model for Autonomous Dri	ving. Preprint.	
F. Hosseini, H. Fooladi, M. R. Samsami. 2019. Recognizing arrow of time in the short stories. WiNLP at A	ACL.	
M. R. Samsami, H. Alimadad. 2020. Distributed Deep Reinforcement Learning: An Overview. Preprint.		
Research Experience		
Ecole polytechnique fédérale de Lausanne (EPFL)		
SUPERVISORS: DR. SABER SALEHKALEYBAR (SHARIF) AND DR. ALEXANDRE ALAHI (EPFL)	2020 - 2021	
Research Intern, Paper: Causal Imitative Model for Autonomous Driving		
Sharif University of Technology		
Supervisor: Dr. Saber SalehKaleybar • Research Assistant	2019 - 2021	
Shenakht Pajouh		
Project Manager: Hosein Fooladi	2018 - 2019	
Researcher, Paper: Recognizing arrow of time in the short stories		
Teaching Experience		
2016 - 2019 Algorithm Design and Programming for Olympiad, Instructor	Karaj, Iran	
2019 - 2021 Linear Programming, Information Theory , Teaching Assistant at Sharif University	Tehran, Iran	

Professional and Work Experience _____

2021 Data Scientist, MetoData

2020-2021 Scientific Collaborator, University of Essex

2017-2020 Researcher and Program Manager, Shenakht Pajouh

Skills____

Machine Learning and Data Analytics: TensorFlow, Keras, PyTorch. Familiar with Scikit-Learn, Spark, Pandas.

Reinforcement Learning Toolkits: Gym, MuJoCo, DeepMind Control Suit, PHYRE, CARLA, RLHive, Stable-Baselines.

Programming Languages: Python, C++, C. Worked with MATLAB, Java, and R.

IDE and Editors: ᠘TEX, Office, PyCharm, Jupyter, Vim, Code::Blocks, RStudio, Eclipse.

Software Engineering: OOP, Functional Programming, Git.

Selected Projects _____

Implementation of Multiplicative Compositional Policies, Robot Learning Course Project

Crypto-Trading with Deep Reinforcement Learning, MetoData Company

Distributional Reinforcement Learning, Reinforcement Learning Course Project

Causal Reinforcement Learning, Causal Inference Course Project

An Analysis of Convex Optimization Algorithms, Convex Optimization Course Project

Language Modeling on Gutenberg with TensorFlow Keras, Shenakht Pajouh Company

Open Source Contribution _____

RLHive, A framework designed to facilitate research in reinforcement learning

Selected Courses _____

Reinforcement Learning, Robot Learning, Representation Learning, Causal Inference, Convex Optimization, Probabilistic Graphical Models, Information Theory, Game Theory, Distributed Systems, Stochastic Processes, Scaling/Alignment/Emergent Behaviors in Neural Nets

Languages _____

Farsi: Native

English: Fluent (TOEFL: 106)

Arabic: Familiar
French: Familiar

Extracurricular Activities _____

2020-Pres.	Sharif Causal AI Journal Club, Member	Sharif Uni.
2017-2019	Sharif Cognitive Science Community (Shenasa), Founding Member of the Central Council	Sharif Uni.
2017-2018	Student's Scientific Association of the Department, Member of Central Council	Sharif Uni.
2017	Sharif Data Science Conference, Co-Organizer	Sharif Uni.
2022-Pres.	Social Events, Organizer	Mila