Mohammad Reza Samsami

M.Sc. Student · Computer Science / Artificial Intelligence

Mila - Quebec Al Institute / Université de Montréal

	n Interests	Chata Cara and Marial
(Model-bas	ed, Offline) Reinforcement Learning, Causality, Foundation Models, Memory,	State Space Model
Educatio	n	
M.Sc. IN COI	ec Al Institute / Université de Montréal MPUTER SCIENCE rs: Prof. Sarath Chandar, Prof. Irina Rish / 4.3	Montréal, Canada 2021 - 2023
Sharif University of Technology B.Sc. IN COMPUTER SCIENCE • GPA: 18.18 / 20		Tehran, Iran 2016 - 2021
Selected	Honors & Grants	
Nov. 2023 Apr. 2023 2022 2019 2015 2016	Merit-based Scholarship for Supporting the Studies and Research, Université of Granted the Travel and Conference Fund, Association for Computational Lingu Silver Medal in Iranian National Olympiad in Informatics (INOI), Young Scholar	istics
Publicati	ions	
M. R. Samsa	ami , A. Zholus, J. Rajendran, S. Chandar. 2024. Mastering Memory Tasks with World	d Models. ICLR, top-1.2% .
S. Joseph, A	. Zholus, M. R. Samsami . 2023. Mining the Diamond Miner. ATTRIB at NeurIPS.	
M. R. Samsa	ami, M. Bahari, S. Salehkaleybar, A. Alahi. 2023. Causal Imitative Model for Autonom	nous Driving. Under Review.
F. Hosseini.	H. Fooladi, M. R. Samsami . 2019. Recognizing arrow of time in the short stories. W	VINLP at ACL.
	ami , H. Alimadad. 2020. Distributed Deep Reinforcement Learning: An Overview. P	Preprint.
M. R. Samsa	g Experience	
M. R. Samsa	Algorithm Design and Programming for Olympiad, Instructor	Karaj, Iran
M. R. Samsa Teaching 2016 - 2019 2019 - 2021	Algorithm Design and Programming for Olympiad, Instructor	Karaj, Iran i ity Tehran, Iran
M. R. Samsa Teaching 2016 - 2019 2019 - 2021 Open So RLHive. We	Algorithm Design and Programming for Olympiad, Instructor Linear Programming, Information Theory, Teaching Assistant at Sharif Univers	Karaj, Iran Tehran, Iran

Professional and Research Experience _

ServiceNow Montreal - Canada

VISITING RESEARCHER 2023 - Pres.

Within the Human Decision Support team, I'm leading a project to **boost fine-tuned LLMs' performance** by augmenting human feedback data with LLM-generated samples in a principled manner.

Mila - Quebec AI Institute

Montreal - Canada

RESEARCH STUDENT 2021 - Pres.

I've been engaged in **multiple RL projects**, covering aspects such as causality, agent memory enhancement, and reverse engineering to understand agent's behavior. My recent work is currently under review for conferences, including **ICLR 2024**.

MetoData Tehran - Iran

DATA SCIENTIST 2021

I contributed to our team's mission of building autonomous agents for quantitative finance by creating a **crypto trader using deep RL**, specializing in Bitcoin-to-USD trading. The resulting product, Metodify, caters to SMEs.

Ecole polytechnique fédérale de Lausanne (EPFL)

Lausanne - Switzerland

RESEARCH INTERN 2020 - 2021

I led a project on **causal imitation learning for autonomous driving**, resulting in an under-reviewed paper.

Shenakht Pajouh Tehran - Iran

RESEARCHER AND PROGRAM MANAGER

2017 - 2020

I held the positions of researcher and program manager at Shenakht Pajouh. I was actively involved in a research initiative aimed at acquiring fundamental concepts of linguistics to develop AI models capable of language comprehension.

Selected Courses _

Reinforcement Learning, Robot Learning, Representation Learning, Causal Inference, Convex Optimization, Probabilistic Graphical Models, Information Theory, Game Theory, Distributed Systems, Stochastic Processes, Neural Scaling Laws

Extracurricular Activities

2020-2021.	Sharif Causal Al 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
2022, 2023	Conference on Lifelong Learning Agents, Volunteer	McGill