

Mohammad Reza Samsami

M.Sc. STUDENT · INFORMATION TECHNOLOGY ENGINEERING

MILA / École de technologie supérieure (ÉTS)

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Research Interests

(Deep) Reinforcement Learning, Causality, Bayesian Machine Learning

Education

Quebec AI Institute (MILA) / École de technologie supérieure (ÉTS)

Montréal, Canada

M.Sc. IN INFORMATION TECHNOLOGY ENGINEERING

2021 - 2023

- Supervisors: Prof. Sheldon Andrews, Prof. Samira Ebrahimi Kahou

Sharif University of Technology

Tehran, Iran

B.Sc. IN COMPUTER SCIENCE

2016 - 2021

- 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

F. Hosseini, H. Fooladi, **M. R. Samsami**. 2019. Recognizing arrow of time in the short stories. WiNLP at 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 - Present

- Research Intern, Project: Causal imitation learning for self-driving cars

Sharif University of Technology

SUPERVISOR: DR. SABER SALEHKALEYBAR

2019 - Present

- Research Assistant, Project: Physical reasoning with deep reinforcement learning

Shenakht Pajouh

PROJECT MANAGER: HOSEIN FOOLADI

2018-2019

- Researcher, Paper: Recognizing arrow of time in the short stories

Professional and Work Experience

- 2021-Pres. **Data Scientist**, MetoData
- 2020-2021 **Scientific Collaborator**, University of Essex
- 2017-2020 **Researcher and Program Manager**, Shenakht Pajouh

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

Skills

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

Reinforcement Learning Toolkits: OpenAI Gym, PHYRE, CARLA Simulator.

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

IDE and Editors: \LaTeX , Office, PyCharm, Jupyter, Vim, Code::Blocks, RStudio, Eclipse.

Software Engineering: OOP, Functional Programming, Git.

Selected Projects and Presentations

Causal Imitation Learning for Self-Driving Cars, EPFL Internship, *Paper in progress*

Physical Reasoning with Reinforcement Learning, A work with Dr. SalehKaleybar

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 Project

Spam Detector for Reviews in E-commerce, Statistical Learning Course, DigiKala (Iranian e-commerce)

Talk on Bayesian Learning and Reasoning, Sharif University of Technology

Selected Courses

Graduate Level Coursework: Reinforcement Learning, Causal Inference, Convex Optimization, Information Theory, Game Theory, Distributed Systems

Undergraduate Coursework: Statistical Learning, Stochastic Processes, Probability Theory, Combinatorial Optimization, Linear Optimization, Theory of Computation, Mathematical Logic

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.