

Mohammad Reza Samsami

B.SC. STUDENT · COMPUTER SCIENCE

Sharif University of Technology, Tehran, Iran

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Education

Sharif University of Technology

B.SC. IN COMPUTER SCIENCE

- **GPA: 18.11 / 20**, Research advisor: Dr. Saber SalehKaleybar

Tehran, Iran

2016 - present

Shahid Soltani

DIPLOMA IN PHYSICS AND MATHEMATICS

- **GPA: 19.29 / 20**, National organization for the development of exceptional talents

Karaj, Iran

2009 - 2016

Honors & Grants

2015 **Silver Medal in Iranian National Olympiad in Informatics**, 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 - Pres. **Membership**, Iranian National Elites Foundation

2019 - 2020 **Membership**, Association for Computational Linguistics

Publication

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

Professional and Work Experience

2017-2020 **Researcher and Program Manager**, Shenakht Pajouh

2020-Pres. **Scientific Collaborator**, University of Essex

Research Experience

Ecole polytechnique fédérale de Lausanne (EPFL)

SUPERVISORS: DR. SABER SALEHKALEYBAR (SHARIF) AND DR. ALEXANDRE ALAHI (EPFL),

MOHAMMADHOSSEIN BAHARI (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

Teaching Experience

2016 - 2019 **Algorithm Design and Programming for Olympiad**, Instructor

Fall 2019 **Linear Programming**, Teaching Assistant

Fall 2020 **Information Theory**, Teaching Assistant

Karaj, Iran

Tehran, Iran

Tehran, Iran

Skills

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

Reinforcement Learning Toolkits: OpenAI Gym, PHYRE, Carla.

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, *Ongoing*

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

Distributed Deep Reinforcement Learning, Distributed Systems Course Project

An Analysis of Convex Optimization Algorithms, Convex Optimization Course Project

Distributional Reinforcement Learning, Reinforcement Learning Course Project

OpenAI GPT language modeling on Gutenberg with TensorFlow Keras, Shenakht Pajouh Project

Talk on Bayesian Learning and Reasoning, Sharif University of Technology

Selected Courses and Studies

GRADUATE LEVEL COURSEWORK

| | |
|--|-----------|
| Reinforcement Learning, Dr. Alishahi | 19.5 / 20 |
| Game Theory, Dr. Alishahi | 18.9 / 20 |
| Distributed Systems, Dr. SalehKaleybar | 18.5 / 20 |
| Information Theory, Dr. Jafari Siavoshani | 17.4 / 20 |
| Convex Optimization, Dr. Jafari Siavoshani | (TBA) |
| Causal Inference, Dr. SalehKaleybar | (TBA) |

UNDERGRADUATE COURSEWORK

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|--|-----------|
| Statistics and Applications, Dr. Mirsadeghi | 20 / 20 |
| Combinatorial Optimization, Dr. Foroughmand, Dr. Alimi | 20 / 20 |
| Linear Optimization, Dr. Alimi | 20 / 20 |
| Stochastic Processes, Dr. Alishahi | 18.2 / 20 |
| Theory of Computation, Dr. Alimi | 18 / 20 |
| Probability and Applications, Dr. Khazaei | 18.5 / 20 |
| Advanced Programming, Dr. Zarei | 20 / 20 |

SELF-STUDY

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| Natural Language Processing, Stanford, Dr. Manning, Dr. Socher | Online Course |
| Bayesian Methods in Machine Learning, I organized a study group in the Sharif University | |

Extracurricular Activities

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| 2017 | Sharif Data Science Conference, Co-Organizer | Tehran, Iran |
| 2017-2019 | Sharif Cognitive Science Community (Shenasa), Member of the First Central Council | Tehran, Iran |
| 2017-2018 | Student's Scientific Association of the Department, Member of Central Council | Tehran, Iran |