

# 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: 18.15 / 20**, Research advisor: Dr. Saber SalehKaleybar

### Shahid Soltani

DIPLOMA IN PHYSICS AND MATHEMATICS

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

Tehran, Iran

2016 - present

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

## 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.

## Professional and Work Experience

2021-Pres. **Data Scientist**, MetoData

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

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

## 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

## Teaching Experience

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

Karaj, Iran

2019 - 2020 **Linear Programming, Information Theory**, Teaching Assistant

Tehran, Iran

## Skills

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**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:**  $\text{\LaTeX}$ , Office, PyCharm, Jupyter, Vim, Code::Blocks, RStudio, Eclipse.

**Software Engineering:** OOP, Functional Programming, Git.

## Selected Projects and Presentations

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**Causal Imitation Learning for Self-Driving Cars**, EPFL Internship, *Ongoing*

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

**Distributional Reinforcement Learning**, Reinforcement Learning Course Project

**An Analysis of Convex Optimization Algorithms**, Convex Optimization 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

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### GRADUATE LEVEL COURSEWORK

Reinforcement Learning, Dr. Alishahi	19.5 / 20
Game Theory, Dr. Alishahi	18.9 / 20
Distributed Systems, Dr. SalehKaleybar	18.5 / 20
Convex Optimization, Dr. Jafari Siavoshani	18.4 / 20
Information Theory, Dr. Jafari Siavoshani	17.4 / 20
Causal Inference, Dr. SalehKaleybar	(TBA)

### UNDERGRADUATE COURSEWORK

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
General French, Dr. Fahim-Kalam	(TBA)

### SELF-STUDY

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