Mohammad Reza Samsami

B.Sc. Student · Computer Science

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Education

Sharif University of Technology   *Tehran, Iran*
B.Sc. in Computer Science   *2016 - present*
- **GPA: 18.18 / 20**, Research advisor: Dr. Saber SalehKaleybar

Shahid Soltani   *Karaj, Iran*
Diploma in Physics and Mathematics   *2009 - 2016*
- **GPA: 19.29 / 20**, National organization for the development of exceptional talents

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

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*

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

GRADUATE LEVEL COURSEWORK

Reinforcement Learning, Dr. Alishahi	*19.5 / 20*
Game Theory, Dr. Alishahi	*18.9 / 20*
Causal Inference, Dr. SalehKaleybar	*18.7 / 20*
Distributed Systems, Dr. SalehKaleybar	*18.5 / 20*
Convex Optimization, Dr. Jafari Siavoshani	*18.4 / 20*
Information Theory, Dr. Jafari Siavoshani	*17.4 / 20*

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	*17.5 / 20*

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

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*