

Hamed MAHDAVI

PERSONAL DATA

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RESEARCH INTERESTS

- Probabilistic Machine Learning
- Approximate Inference
- Point Processes
- Optimization in Machine Learning
- Generative Modeling
- Fairness and Interpretability in Machine Learning
- Statistical Learning Theory
- Reinforcement Learning

EDUCATION

CURRENT Master of Science in COMPUTER ENGINEERING,
SEP 2017 **Sharif University of Technology**, Tehran, Iran
Major: Artificial Intelligence
Thesis: Dynamic Scalable Network Inference | Supervisor: Prof. Hamid Beygi
GPA: 18.45/20
SEP 2012 Bachelor of Science in COMPUTER ENGINEERING,
Sharif University of Technology, Tehran, Iran
Major: Software Engineering
Thesis: "A Survey On Speech Enhancement Algorithms"
Supervisor: Prof.Hossein Sameti
GPA: 15.7/20
JULY 2011 Mathematical Olympiad Summer Set,
Young Scholars Club

WORK AND RESEARCH EXPERIENCE

FEB 2019-NOW	Research Collaborator at SCALABLE NETWORK INFERENCE ON MDND PROJECT MDND (Mixture of Dirichlet Network Distributions) is a Bayesian non-parametric model for simultaneous learning and clustering of a social network graph. Learning and Inference have always been challenging in in this class of models. In this project, I worked under supervision of Stefanie Jegelka, Baharan Mirzasoleiman and Mahmoudreza Babaei to overcome this problem from a new perspective, specifically applied on MDND model.
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AUG 2018-JAN 2019	Research Intern at MAX PLANCK INSTITUTE, Saarbrücken, Germany The Max Planck Institute for Software Systems (MPI-SWS) is a computer science research institute co-located in Saarbrücken and Kaiserslautern. In my six months internship period, we worked on theoretical aspects of reinforcement learning under supervision of Dr. Adish Singla. Our main work was on multi-agent reinforcement learning, adversarial attacks and human-centered reinforcement learning. In each topic, we tried to model the topic as a theoretical framework in discrete MDP's
JUL-SEP 2017	Summer Intern at FARAGOSTAR, Tehran Faragostar is a leading developer of office automation applications and financial management software in Iran.
OCT 2012-APR 2013	Mathematical Olympiad Teacher at ALLAMEH HELLI HIGHSCHOOL, Tehran Allameh Helli is an outstanding talent school in Iran and I was a mathematical olympiad courses teacher for Number theory.

HONORS AND AWARDS

- JUNE 2017 Ranked 5th in the Artificial Intelligence field, 2nd in the Networks and Security field and 4th in the IT field of nationwide MSc entrance exam
- JUNE 2012 Ranked 217th in Iran National Universities Entrance Exam among 300K+ students
- SEPT. 2011 Silver Medal, in 29th Iranian National Mathematical Olympiad

TEACHING ASSISTANCE EXPERIENCE

- SPRING 2019 Convex Optimization (Prof. Jafari)
Sharif University of Technology, Tehran, Iran
- SPRING 2019 Engineering Probability and Statistics (Prof. Jafari)
Sharif University of Technology, Tehran, Iran
- SPRING 2018 Signals and Systems (Prof. Sameti)
Sharif University of Technology, Tehran, Iran
- SPRING 2015 Design and Analysis of Algorithms (Prof. Ghodsi)
Sharif University of Technology, Tehran, Iran

RELATED COURSES

- GRADUATE: Stochastic Processes(18.8/20), Speech Processing(18/20), Algorithmic Game Theory(17.9/20), Statistical Learning Theory (18.5/20), Probabilistic Graphical Models (17.7/20), Computational Geometry(18/20),Advanced Statistical Machine Learning(19.3/20), Convex Optimization (19/20)
- UNDERGRADUATE: Design and Analysis of Algorithms(19.5/20), Signal Processing(18/20), Probability and Statistics(16/20), Data Structures and Algorithms(19.1/20), Discrete Structures(20/20)

COMPUTER SKILLS

Programming : Java, Scala, Python, C#, Matlab, R
Web : HTML, CSS, JavaScript, Django, Play Framework, AngularJs, Bootstrap
Tools : Numpy, Scikit-Learn, PyTorch, Elasticsearch
DB : PostgreSQL, MongoDB
OS : Windows, Ubuntu
Version Control : Git
Word Processor : \LaTeX , Microsoft Word

LANGUAGES

PERSIAN: Mothertongue
ENGLISH: Fluent
ARABIC: Basic Knowledge

REFERENCES

Baharan Mirzasoleiman	Post doctoral fellow at Stanford
Adish Singla	Faculty at Max Planck Institute for Software Systems
Hamid Beigy	Associate Professor at Sharif University of Technology
Mahdi Jafari Siavoshani	Assistant Professor at Sharif University of Technology

INTERESTS AND ACTIVITIES

Guitar, Badminton, Melodica, Reading Books, Movies, Social Sciences