Hamed MAHDAVI

PERSONAL DATA

ADDRESS: Sharif University of Technology, Computer Engineering Departement,

Azadi avenue, Tehran, Iran

PHONE: +98 912 5510946

EMAIL: hmdmahdavi@ce.sharif.edu

hamedmahdavi72@gmail.com

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.

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

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JUNE 2012 Ranked 217th in Iran National Universities Entrance Exam among 300K+ students

SEPT. 2011 Silver Medal, in 29th Iranian National Mathematical Olympiad

PUBLICATIONS

• A. Ghosh, S. Tschiatschek, H. Mahdavi, and A. Singla, "Towards Deployment of Robust Al Agents for Human-Machine Partnerships," arXiv:1910.02330 [cs, stat], Oct. 2019.

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

LANGUAGES

PERSIAN: Mothertongue

ENGLISH: Fluent

INTERESTS AND ACTIVITIES

Guitar, Badminton, Melodica, Reading Books, Movies, Philosophy