

Navid Ardeshir

CONTACT INFORMATION	Columbia University Department of Statistics New York, NY	navid.ardeshir@columbia.edu https://github.com/scO0rpion https://mathblasphemy.netlify.app
RESEARCH INTERESTS	I am broadly interested in high-dimensional statistics, game theory and probability. More recently, I have found interest in applications of optimal transport in deep learning theory. I am also interested in online decision making and reinforcement learning.	
EDUCATION	Columbia University, NY Ph.D. in Statistics (2019-current) <ul style="list-style-type: none">• Current GPA: 4.12• Advised by Daniel J. Hsu, Arian Maleki Sharif University Of Technology, Iran B.S. in Electrical Engineering, Communication (2014-2019) Sharif University of Technology <ul style="list-style-type: none">• Bachelorette Thesis Topic: Traffic Modeling and Origin-Destination Matrix Estimation• Advisors: Dr. Kasra Alishahi, Dr. Amin Aminzadeh Gohari• Deans List For The Last 2 Years (Summa Cum Laude GPA)• Cumulative GPA: 19.21/20 (4/4 US scaling system)	
HONORS AND AWARDS	2011–2012 2014–2018 2016–2018	Silver Medal In National Mathematical Olympiad 3'rd (out of 200) rank in Electrical Engineering Department Valedictorian, Electrical Engineering Department Sharif University of Technology
COURSE PROJECTS	2014 2016 2018 2020 2020	Implementation of BayesCall algorithm and modeling high-throughput short-read sequencing, Signal Processing Implementing Sequential Restoration for Power Grids using Linear Programming, Electrical Energy Conservation Stat Oil Challenge from Kaggle competition, Pattern Recognition Online Learning Through the Lens of Potential Descent A Review on Deep Exploration Methods in Reinforcement Learning
TEACHING AND WORKING EXPERIENCE	Spring 2018 Fall 2019 Spring 2019 Fall 2020	Instructor , Geometry and Probabilistic Methods at Iran's National Elite Foundation Intern , Tap30, Tehran, Iran I had the opportunity to work for a major transportation company in order to improve their pricing policies using enhanced demand estimates. I implemented several bayesian learning algorithms and created a cohesive benchmark. Teaching Assistant , Linear Regression. W4205 Teaching Assistant , Applied Statistical Methods. UN3105
TALKS	Fall 2020	Boosting from a Theoretical Point of View Virtual at Sharif University of Technology

RESEARCH EXPERIENCE	2016–2017	Statistical methods for determining the effect of heavy duty vehicles on accident probability in tunnels using generalized linear models and mixed linear models
	2017–2019	Practical and theoretical developments of algorithms in traffic assignment and estimating origin-destination matrix
	Python	Experienced and proficient with deep learning packages such as PyTorch, Tensorflow, Theanno, etc.
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RELEVANT SKILLS	Languages:	My first language is Farsi and I am a fluent English speaker.
	Hobbies:	Photography, Tennis, Playing Tonbak
	Elective Courses:	In addition to my core skills in mathematics and statistics I have taken graduate level courses in Convex Optimization, Operational Research, and Dynamical Systems.
REFERENCES	Kasra Alishahi , Professor of Mathematics Department, Sharif University of Technology, Iran, alishahi@sharif.edu	
	Amin Aminzadeh Gohari , Professor of Electrical Engineering Department, Sharif University of Technology, Iran, aminzadeh@sharif.edu	
	Daniel Hsu , Associate Professor of Computer Science, Columbia University, NY djhsu@cs.columbia.edu	
	Arian Maleki , Associate Professor of Statistics Department, Columbia University, NY mm4338@columbia.edu	