

Arya Akhavan

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EDUCATION

PhD Candidate, Theoretical Statistics,

- ENSAE, Institut Polytechnique de Paris and IIT-Genova
Supervisors: Alexandre B. Tsybakov and Massimiliano Pontil

September 2019 – Present

Master M2 MASH Learning and Applications,

- Paris Dauphine University and École Normale Supérieure Paris-Saclay
Mention: Très Bien

2017 – December 2018

First year of Master in Mathematics,

- Sharif University of Technology
Mention: Très Bien

2016 – 2017

B.Sc. in Mathematics,

- Department of Mathematics, Statistics and Computer Sciences, University of Tehran

2011 – 2016

High School Diploma in Mathematics and Physics Discipline,

- Rahyar High School, Tehran, Iran

2007 – 2011

INTERESTS

Optimization

Non-parametric Statistics

Stochastic Process

Gamification

WORK EXPERIENCE

Research Fellow at Istituto Italiano di Tecnologia-Genova (IIT)

- Supervisors: Massimiliano Pontil and Alexandre B. Tsybakov

Spring 2019

Internship at ENSAE, IP, Paris

- Supervisor: Alexandre B. Tsybakov

Spring and Fall 2018

PUBLICATIONS AND PREPRINTS

A. Akhavan, M. Pontil, A. B. Tsybakov. **Distributed Zero-order Optimization under Adversarial Noise**, To Appear in Advances in Neural Information Processing Systems (NeurIPS). 2021

A. Akhavan, M. Pontil, A. B. Tsybakov. **Exploiting Higher Order Smoothness in Derivative-free Optimization and Continuous Bandits**, Advances in Neural Information Processing Systems (NeurIPS). 2020

HONORS AND AWARDS

Granted by Fondation Sciences Mathématiques de Paris

2017

Ranked 13th, in 21st National Scientific Olympiad in Mathematics, held by NOET (National Organization for Educational Testing). July 2016

Silver Medal, in 39th Iranian Mathematical Society Competition.

May 2015

Ranked 1st, University of Tehran IMC 2017 (International Society Competition for University Students) in Team Selection Contest. April 2015

**REALTED &
GRADUATE
COURSES**

Kernel Methods, Instructors: Prof. Julien Mairal & Prof. Jean-Philippe Vert, École Normale Supérieure of Paris	Spring 2018
Applied Bayesian Statistics, Instructor: Prof. Robin Ryder, Dauphine University	Spring 2018
Bayesian Nonparametrics, Instructor: Prof. Julyan Arbel, Dauphine University	Spring 2018
High-dimensional Statistics, Instructors: Prof. Arnak Dalalyan, École Normale Supérieure Paris-Saclay	Spring 2018
Introduction to Graphical Models, Instructors: Prof. Francis Bach & Prof. Guillaume Obozinki, École Normale Supérieure Paris-Saclay	Fall 2017
Applied Stochastic Processes, Instructor: Dr. Mir Omid Haji Mirsadeghi, Sharif University of Technology	Spring 2017
Convex Optimization, Instructor: Prof. Alexander d'Aspremont, École Normale Supérieure of Paris	Fall 2017
Introduction to Statistical Learning, Instructor: Prof. Nicolas Vayatis, École Normale Supérieure Paris-Saclay	Fall 2017
Stochastic Analysis, Instructor: Prof. Bijan Zohuri-Zangeneh, Sharif University of Technology	Spring 2017
Topics in Statistics, Instructor: Dr. Kasra Alishahi, Sharif University of Technology	Spring 2017
Real Analysis, Instructor: Dr. Sharifi Tabar, Sharif University of Technology	Fall 2016
Algebraic Geometry, Instructor: Dr. Amir Jafari, Sharif University of Technology	Fall 2016

TEACHING

Teaching assistance of following courses in Department of Mathematics, Statistics, and Computer Science, University of Tehran:

- **Linear Algebra**, Instructor: Prof. Yassemi Fall 2017
- **Topology**, Instructor: Dr. Hadi Zare Spring 2016
- **Elementary Number Theory**, Instructor: Dr. Ghadermarzi Spring 2016

**ACADEMIC
SERVICE**

- Instructor of Problem Solving Sessions for the team of University of Tehran to prepare for 40th Iranian Mathematical Society Competition, Department of Mathematics, Statistics, and Computer Science, University of Tehran. Spring 2016
- Co-Head of the team of University of Tehran in 40th Iranian Mathematical Society Competition, Iran University of Science and Technology, Tehran, Iran. Aug 2016

**COMPUTER
SKILLS**

R, MATLAB, Python, C++

LANGUAGES

- Persian (native)
- Armenian (native)
- English (fluent)
- French (intermediate)

INTERESTS

Rock climbing, traveling, martial arts, reading Sci-fi and fiction novels.