

# 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

## RESEARCH INTERESTS

### Optimization

### Non-parametric Statistics

### Stochastic Process

### High-dimensional Statistics

## 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

<b>TEACHING</b>	<p>Teaching assistance of following courses in Department of Mathematics, Statistics, and Computer Science, University of Tehran:</p> <ul style="list-style-type: none"> <li>▪ <b>Linear Algebra</b>, Instructor: Prof. Yassemi <span style="float: right;">Fall 2017</span></li> <li>▪ <b>Topology</b>, Instructor: Dr. Hadi Zare <span style="float: right;">Spring 2016</span></li> <li>▪ <b>Elementary Number Theory</b>, Instructor: Dr. Ghadermarzi <span style="float: right;">Spring 2016</span></li> </ul>
<b>ACADEMIC SERVICE</b>	<ul style="list-style-type: none"> <li>▪ 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. <span style="float: right;">Spring 2016</span></li> <li>▪ Co-Head of the team of University of Tehran in 40th Iranian Mathematical Society Competition, Iran University of Science and Technology, Tehran, Iran. <span style="float: right;">Aug 2016</span></li> </ul>
<b>COMPUTER SKILLS</b>	R, MATLAB, Python, C++
<b>LANGUAGES</b>	<ul style="list-style-type: none"> <li>▪ Persian (native)</li> <li>▪ Armenian (native)</li> <li>▪ English (fluent)</li> <li>▪ French (intermediate)</li> </ul>
<b>INTERESTS</b>	Rock climbing, traveling, martial arts, reading Sci-fi and fiction novels.