Arya Akhavan

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EDUCATION PhD Candidate, Theoretical Statistics,

■ ENSAE IP, Paris, and Istituto Italiano di Tecnologia-Genova (IIT) September 2019 – Present Supervisors: Alexandre B. Tsybakov and Massimiliano Pontil

Research Fellow, Computational Machine Learning,

Istituto Italiano di Tecnologia-Genova (IIT)
 Supervisor: Massimiliano Pontil

Master M2 MASH Learning and Applications,

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

First year of Master in Mathematics,

■ Sharif University of Technology 2016 – 2017

Mention: Très Bien

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

High-dimensional Statistics Non-parametric Statistics Statistical Learning Theory Stochastic Process

WORK EXPERIENCE

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

2019 – Present

Supervisors: Alexandre B. Tsybakov and Massimiliano Pontil

Internship at CREST-ENSAE

Supervisor: Alexandre B. Tsybakov

Spring and Fall 2018

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PUBLICATIONS AND PREPRINTS

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

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).

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

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.
- 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

ATTENDED ACADEMIC ACTIVITIES

- Participation in Metastability Phenomenon, Tunnelling Effect and Condensation Short Course, Instructor: Prof. Fraydoun Rezakhanlou (University of California, Berkeley), Sharif Uinversity of Technology

 May 2017
- Participation in Algebraic Geometry Short Course, Instructor: Prof. Francois Loesser (Institut Mathématique de Jussieu), University of Tehran

 October 2016
- Participation in First Mathematics Summer School for Undergraduate Students, Institute for Advanced Studies in Basic Sciences, Zanjan, Iran

 Aug 2016
 - Stochastic Processes, Instructors: Dr. Kasra Alishahi, Dr. Erfan Salavati
 - Algebraic Topology, Instructors: Dr. Eaman Eftekhari, Dr. Ali Kamalinejad
- Associate member of Iranian Mathematical Society

Sep 2015 – present

Reading project on Modular Elliptic Curves

Summer 2015

• Description: Under supervision of Dr. Amir Ghadermarzi, some talks on modular forms and elliptic curves has been given, based on Serre's "A first course in arithmetic" and Koblitz's "Introduction to elliptic curves and modular forms," regarding Wile's modularity theorem.

COMPUTER SKILLS

R, MATLAB, Python, LATEX

LANGUAGES

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

INTERESTS

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