

Samy Jelassi

Department of Operations Research and Financial Engineering (ORFE)
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Education

Princeton University, USA

Sept. 2017 - Present

2nd-year Ph.D. student in Operations Research and Financial Engineering (ORFE)

- Advisors: Prof. Yoram Singer (Princeton University) and Prof. Joan Bruna (NYU)
- Research Interests: Non-Convex Optimization, Deep Learning, Reinforcement Learning

Ecole Normale Supérieure, Cachan, France

Sept. 2015 - Sept. 2017

M.Sc. degree in Machine Learning and Computer Vision (MVA), Department of Mathematics

- with highest honors.

Ecole Normale Supérieure, Lyon, France

Sept. 2014 - Sept. 2015

B.Sc. degree in Theoretical Computer Science, Department of Computer Science

- with jury's congratulations.

Lycée Louis-le-Grand, Paris, France

Sept. 2011 - Jun. 2014

Classes Préparatoires aux Grandes Écoles (CPGE)

- University-level preparatory studies for the competitive national entrance to France's engineering schools.

Publications

1. T. Pumin*, S. Jelassi*, N. Boumal. "Smoothed analysis of the low-rank approach for smooth semidefinite programs", in *Advances in Neural Information Processing Systems (NeurIPS) 2018*. *Equal contribution.

Presentations

Thirty-second Conference on Neural Information Processing Systems

Dec. 2018

Montreal, Canada

Smoothed analysis of the low-rank approach for smooth semidefinite programs

Plenary oral presentation, one of 30 among 1,100 accepted papers.

MIC seminar

Nov. 2018

New York University, USA

Burer-Monteiro method and recent developments

Statistical Physics and Machine Learning workshop

Aug. 2018

Cargèse, Corsica

Smoothed analysis of the low-rank approach for smooth semidefinite programs

Poster presentation

Beg-Rohu summer school: Deep Learning and Statistical Physics

June 2018

Quiberon, France

Smoothed analysis of the low-rank approach for smooth semidefinite programs

Poster presentation

Research experience

INRIA, Paris

Apr. 2017 – Aug. 2017

Master thesis

Advisors: Prof. Francis Bach & Prof. Robert M. Gower

Design of new stochastic variance-reduced algorithms.

University of California, Berkeley

Feb. 2016 – July 2016

Research Internship

Advisors: Prof. Alexandre d'Aspremont & Prof. Laurent El Ghaoui

Design of topic modeling algorithms in Natural Language Processing.

Hôpital Georges Pompidou

Research Internship

Advisor: Dr. Anne-Sophie Jannot

Design of algorithms for prediction in medicine.

June 2015 – Aug. 2015

Teaching

ELE 435/535: Machine Learning and Pattern Recognition

Teaching assistant

Fall 2018

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Awards

NeurIPS Travel Award

Dec. 2018

School of Engineering and Applied Science Travel Grant

Oct. 2018

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Skills

- **Programming Languages** Python, C++
- **Mathematics Software** Matlab, R