

Waïss Azizian — PhD student

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- PhD student in optimization for machine learning in Grenoble, France.
- Graduation date: December 2025

Research experience

Laboratoire Jean Kuntzmann

PhD, under the supervision of F. Iutzeler, J. Malick, P. Mertikopoulos
Robust min-max optimization for learning

Grenoble, France
March 2022 - Current

INRIA

Research internship, under the supervision of Marc Lelarge
Online parameter estimation in state-space models

Paris, France
November 2021 - February 2022

Mila

Research internship, under the supervision of Simon Lacoste-Julien
Smooth game optimization for machine learning

Montréal, Québec, Canada
March - July 2019

Selected publications

Selected from 8 first-author publications

- “What is the Long-Run Distribution of Stochastic Gradient Descent? A Large Deviations Analysis”, in ICML, 2024, with F. Iutzeler, J. Malick, and P. Mertikopoulos.
- “Exact Generalization Guarantees for (Regularized) Wasserstein Distributionally Robust Models,” in NeurIPS, 2023., with F. Iutzeler, J. Malick.
- “Expressive power of invariant and equivariant graph neural networks”, in ICLR, 2021, with M. Lelarge.

Education

École Normale Supérieure Paris-Saclay

Master in Machine learning “Mathematics, Vision, Learning” (MVA)
Obtained with highest honors

Saclay, France
2020 - 2021

École Normale Supérieure de Paris

First year of Master (M.Sc.) in both Mathematics and Computer Science
Licences (B.Sc.) in both Mathematics and Computer Science

Paris, France
2018 - 2020
2017 - 2018

Technical skills

- Deep learning frameworks: extensive experience in PyTorch and Jax
- Programming languages: Python, Julia, Ocaml, C
- Research tools: Git, L^AT_EX, Linux, cluster infrastructure (SLURM and OAR, Docker and Singularity)
- Strong mathematical background in applied mathematics, with an emphasis on statistics and probability

Academic Activities and Teaching

- January 2023 - current: organization of the team’s seminar.
- May - July 2023: co-supervision of an intern on *Wasserstein Distributionally Robust Portfolio Optimization*.
- Teaching assistant: Numerical Optimization (1st year of Master); Statistical Methods for Biology (L2).
- Reviewer for NeurIPS, ICML, TMLR.