# Waïss Azizian | PhD student

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- *Research focus: optimization for deep learning, reliable ML*
- *Graduation date: May 2026*

## Research experience

**Laboratoire Jean Kuntzmann** — **Grenoble, France**
*PhD, under the supervision of F. Iutzeler, J. Malick, P. Mertikopoulos* — *March 2022 - Current*
- *Developed and analyzed distributionally robust optimization methods*
- *Established large deviation estimates for the global convergence of neural network training*

**Morgan Stanley Machine Learning Research** — **New York, USA**
*PhD internship, under the supervision of Ali Hasan* — *August 2025 - October 2025*
- *Investigated the in-context-learning capabilities of Large Language Models*
- *Contributed to internal option pricing algorithms*

**Apple Machine Learning Research** — **Paris, France**
*PhD internship, under the supervision of Marco Cuturi* — *February 2025 - May 2025*
- *Evaluated the robustness of uncertainty quantification methods for Large Language Models*

**INRIA** — **Paris, France**
*Research internship, under the supervision of Marc Lelarge* — *November 2021 - February 2022*
- *Developed Online parameter estimation methods in state-space models*

**Mila** — **Montréal, Québec, Canada**
*Research internship, under the supervision of Simon Lacoste-Julien* — *March - July 2019*
- *Analyzed and improved game optimization methods for machine learning*

## Education

**École Normale Supérieure Paris-Saclay** — **Saclay, France**
*Master in Machine learning "Mathematics, Vision, Learning" (MVA)* — *2020 - 2021*
*Obtained with highest honors*

**École Normale Supérieure de Paris** — **Paris, France**
*First year of Master (M.Sc.) in both Mathematics and Computer Science* — *2018 - 2020*
*Licences (B.Sc.) in both Mathematics and Computer Science* — *2017 - 2018*

## Publication statistics

**Conferences**: 8 conference papers (6 first-author), incl. NeurIPS/ICML/ICLR/COLT/AISTATS

**Journals**: 3 journal publications, incl. SIAM Journal on Optimization

**Citations**: 600+ (Google Scholar)

## Technical skills

- *Deep Learning Frameworks:* PyTorch, JAX/Flax, vLLM.
- *Research Tools:* Git, Hydra, Docker, Singularity.
- *High-Performance Computing:* Linux, SLURM, OAR, CUDA, GPU scheduling, cluster infrastructure.
- *Mathematical expertise:* Probability, statistics, optimization, stochastic calculus, large deviations.

## Academic Activities

- Reviewer for NeurIPS, ICML, ICLR, Mathematical Programming, SIAM J. Optimization.
- Mentored junior PhD students on research projects in robust optimization and large deviations.
- Teaching assistant: Numerical Optimization ($1^{st}$ year MSc.); Statistics for Biology ($2^{nd}$ year BSc.).