

Taher Jalal

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EDUCATION

Paris-Saclay University <i>Ph.D. in Statistics, Master of Science in Probability, Statistics & Machine Learning.</i>	2020-2025
Paris-Saclay University <i>National selection for teaching positions in Mathematics. (rank: top 5%)</i>	2019-2020
Ecole Polytechnique <i>'Ingenieur polytechnicien' cycle, Major in Applied Mathematics.</i>	2016-2019
Paris-Nanterre University <i>Bachelor of Arts in Philosophy (pursued alongside my engineering curriculum).</i>	2017-2018
Paris-Sud University <i>Bachelor of Science in Mathematics and Computer Science.</i>	2013-2016

RESEARCH AND INDUSTRY EXPERIENCES

Stealth Startup <i>Computer vision intern.</i>	May. 2025 - present
Paris-Saclay University - Versailles Campus <i>Research and Teaching Assistant in the Probability/Statistics team.</i>	Oct. 2021 - Aug. 2025
University Paris-Cité, MAP5 <i>Research Assistant Intern. Topic: Itô semi-martingales and volatility inference.</i>	Apr. 2021 - Sep. 2021
Ecole Polytechnique, CMAP <i>Research Assistant Intern. Advisor: Sylvie Méleard. Topic: SDE for biology</i>	Apr. 2019 - Aug. 2019
Office Cherifien du Phosphate, (OCP) <i>Business Steering analyst Intern</i>	Jun. 2018 - Aug. 2018

PROGRAMMING SKILLS

Advanced: Python (TensorFlow, Scikit-learn, Scipy, Seaborn/Matplotlib, Manim,...), Latex, Git.

AWARDS AND DISTINCTIONS

Winner – MathTech Hackathon EDF <i>Forecasting the future of EV infrastructure: A Data-Driven approach to smart charging in 2050.</i>	2025
Vivaldi program laureate <i>Funding for doctoral students to promote junior scientific visibility.</i>	2022
Laureat of the french "Agrégation externe" in mathematics <i>Highly competitive national examination to select teaching assistants and mathematics educators.</i>	2020
Agency of French Education Abroad fellowship for academic excellence <i>Prestigious scholarship program recognizing outstanding high-school academic results.</i>	2013-2018

SKILLS

General: Stochastic calculus, Stochastic differential equations, Lévy models, Non-parametric statistics, Data analysis, Statistical learning, Statistical modelling, Monte-Carlo simulation.

Languages: French/Arabic (*Native*). English(*Fluent*). Spanish/Japanese(*Beginner*).

Non-curricular interests: Harmony/music theory, keyboard player, Signal/audio processing.

PUBLICATIONS

- [1] *T.Jalal* Stable and tempered stable distributions and processes: an overview toward trajectory simulation.
- [2] *C.Duval, T.Jalal and M.Mariucci*. Adaptive minimax estimation for discretely observed Lévy processes.
- [3] *C.Duval, T.Jalal and M.Mariucci* Nonparametric density estimation for the small jumps of Lévy processes.