

YASSINE BOUKHATEB

PhD STUDENT IN MATHEMATICS

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French citizen ◇ Born 01-10-2002 ◇ Office : x - ENSAE Paris

EDUCATION

CREST-ENSAE – Institut Polytechnique de Paris

Ph.D. in Mathematics

Under the supervision of Victor-Emmanuel Brunel and Austin J. Stromme

Oct 2025 – Present

Palaiseau, France

Institut des Mathématiques d'Orsay – Université Paris-Saclay

M.Sc. in Probability and Statistics

Related courses: Concentration of Measure, Stochastic Calculus, High-dimensional probability and statistics.

2024 – 2025

Orsay, France

ENSAE – Institut Polytechnique de Paris

Studies in mathematics and economics

GPA: 4.0/4.0

Related courses: Measure and Probability Theory, Functional Analysis, Convex Optimization, Optimal Transport, Theoretical Machine Learning, Statistics.

2022 – 2025

Palaiseau, France

Lycée Louis-Le-Grand

Classes préparatoires (MPSI–MP*)

Relevant courses: Mathematics (Algebra, Topology, Analysis), Theoretical Physics (Electromagnetism, Quantum Physics), Programming (Python and SQL)

2020 – 2022

Paris, France

RESEARCH INTERESTS

Probability Theory, Statistics (Parametric and Nonparametric), Statistics in Metric Spaces, Optimization, Geometry, Geometric Functional Analysis.

RESEARCH EXPERIENCE

Master's Thesis Internship

Supervisors: Damien Garreau (JMU Würzburg) & Eddie Aamari (ENS Paris)

May 2025 – Sept 2025

Würzburg, Germany

- **Research Topic:** Review and advance the mathematical analysis of the UMAP (Uniform Manifold Approximation and Projection) algorithm, a nonlinear dimensionality reduction method.

Research Internship in Mathematics

Supervisor: Victor-Emmanuel Brunel (CREST)

Jun 2024 – Oct 2024

Palaiseau, France

- **Research Topic:** Further investigation of Klartag's results on the Central Limit Theorem for convex bodies, with an emphasis on Stein's method and convex geometry techniques.

INDUSTRY EXPERIENCE

Data Analyst – Internship

Clap Partners, HR Consulting Firm

Jun 2023 – Aug 2023

Montrouge, France

- Created reports using the SAP SF People Analytics Story solution.
- Monitored the creation of a connector between PowerBI and PMA (Performance Management Analytics).

SKILLS AND LANGUAGES

Languages	French (Native), English (Proficient), Spanish (Beginner)
Technical Skills	Python, R, LaTeX, Git/GitHub