Olivier Caffier

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Profile

After three years studying mathematics, computer science, and physics in the selective MPI* preparatory program at Lycée Faidherbe (Lille, France), I was admitted to ENSAE Paris, a leading French Grande École specializing in data science, statistics, economics, and machine learning. I aspire to become a data scientist in the tech industry, where I can contribute to solving real-world problems using data analysis, machine learning, and scalable technologies.

Education

MSc **ENSAE Paris, Institut Polytechnique de Paris** — Sept 2025 – Present, Palaiseau, France

Selective French Grande École specializing in data science, quantitative economics, and machine learning

- Core coursework: Probability, Statistical Learning, Machine Learning, Optimization, Econometrics

CPGE **Lycée Faidherbe** — Sept 2022 – June 2025, Lille, France

Selective and intensive program in Mathematics, Physics, Computer Science preparing for top French engineering schools – MPI* Track (top-tier honors program)

- GPA : 4.0/4.0 ; Valedictorian of the MPI* class

Honours and Awards

Louis Chatry Prize — **2025**

Excellence prize awarded by Faidherbe Alumni and professors to the most deserving student for academic performance, dedication, and engagement.

Mathematics Olympiad — **2022**

National Mathematics Competition, Awarded an Honorable Mention in recognition of commended performance.

Publications

Nos Fondamentaux — **2025**

Solely authored and developed four comprehensive study manuals (≈ 500 pages each) for undergraduates in CPGE, covering Mathematics, Computer Science, Physics, and Literature.

Work Experience and Projects

MPI* Prime, Github repository — MPI* Prime

- Class repository designed and managed by me, featuring solved assignments, notes, and revision resources across all subjects.
- Valuable tutoring experience across student levels (from CCINP to X-ENS).

TIPE on Optimal Transport Problem in Weather Animation, Research project & oral defense — TIPE 2025

- Applied Mathematics and Programming : modeled meteorological animations (as seen on TV), including evolving cloud shapes and densities.

TIPE on Go-Getter and its backtracking solving, Research project & oral defense — TIPE 2024

- Programming : Solving the children's board game *Go-Getter* using backtracking, with focus on optimisation through memoisation, hashtables, etc.

Technical skills

- **Programming Languages** Python, SQL, R, C, OCaml, LaTeX
- **Technologies** VSCode, RStudio, SQLite
- **French / English / Italian** Native speaker / Advanced / Elementary