Ina Câmpan

First year Master's Student in General Engineering at ENSAE

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🎓 Education

Master of Science in General Engineering (*Diplôme d'Ingénieur Grande École*)   September 2024 – Present
ENSAE (National School of Statistics and Economic Administration) - IP Paris   *Palaiseau, France*

> Leading institution in graduate education in statistics, machine learning, finance and data science

> **Relevant Coursework** (GPA 4.0) : Stochastic processes, Probability theory, Statistics, Optimisation, Macroeconomics and microeconomics, Econometrics, Surveys, Sociology

> **Volunteering** : Vice-President of Fem'ENSAE (feminist association), Member of Agora ENSAE (conference association)

Bachelor's Degree in Mathematics and Computer Science   September 2021 – Mai 2024
Sorbonne University, Faculty of Science and Engineering   *Paris, France*

> **Valedictorian** at the end of the 1st year: Formal Sciences (*With Highest Honors*)

> *Mention très bien* (highest honors) at the end of my second and third year, both in BSc Mathematics and BSc Computer Science

> **Relevant Coursework** : Advanced Measure and Probability Theory, Numerical & Functional Analysis, Multilinear Algebra, Data Science, Database & PL/SQL, Data Structures, Cryptology, Introduction to Mathematical Epidemiology

🥧 Internships

Collège de France – Research assistant   June 2025 – August 2025
Ecology & Evolution of Health Team (CIRB), supervised by Samuel Alizon and Olivier Supplisson   *Paris, France*

> Deployed an **R-Shiny** interface for visualising the spatial epidemiology of genital ulcers attributable to herpes simplex viruses in France

> Introduced to advanced statistical methods, including **hierarchical Bayesian modelling** and generalised additive models

> Studied the problem of **spatial confusion** through the implementation of various spatial models and performed simulations for comparison purposes

Data Compression Methods - Research assistant   July 2023 – August 2023
Jacques-Louis Lions Laboratory, supervised by Stéphane Labbé   *Paris, France*

> Applied image compression, using the Haar basis and wavelet transformation (with the algorithm developed, compression of more than **50% for the first level**)

> Introduced an application concerning **calculations in electromagnetism**, starting from the Laplace equation

⚗ Professional experiences

Teaching assistant for undergraduate intensive courses in mathematics   September 2025 – Present
Student contract with two educational establishments   *Île-de-France region, France*

> Gived **oral mathematics examinations** (4 hours/week) in first-year classes (MPSI and MP2I tracks)

> Provided personalised assessment and support for students

Olympic Family assistant   July 2024 – August 2024
Volunteer in the GFS team of Paris 2024   *Paris, France*

> Provided **linguistic assistance** to the designated member, *Mr. Barry Hendricks (President of SASCOC, South Africa)*

> Assisted the designated member in their activities, facilitating **logistics** and **organization** using Paris 2024-specific applications and software, primarily for transportation management

⚙ Skills

Technical Expertise Python (Pandas, NumPy, Scikit-learn), R, SAS, C, SQL, Java, OCaml, HTML, Assembly, UNIX, Gurobi, Git, LaTex
Languages Bilingual in French and Romanian, Advanced in English, Notions in Spanish

👤 Interests

Design Website design and analogue photography
Sports Fencing and fitness (as part of my studies at ENSAE)