

# Ina Campan

1st year Master's student in General Engineering at ENSAE

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French and Romanian

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18 octobre 2002 (21 years old)

## Education

### Master in General Engineering (Diplôme d'Ingénieur Grande École)

ENSAE (National School of Statistics and Economic Administration) - IP Paris

September 2024 – June 2027

Paris, France

- > **Relevant Coursework** : Functional and convex analysis, Univariate descriptive statistics with SAS, Probability, Introduction to macroeconomics and microeconomics

### Mathematics and Computer Science Double Major track

Sorbonne University, Faculty of Science and Engineering

September 2021 – May 2024

Paris, France

- > **Valedictorian** at the end of the 1st year : Formal sciences (*Mention Très Bien*)
- > *Mention très bien* 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

## Projects

### Multidimensional analysis of preferences

Sorbonne University, Development project (S4), supervised by Olivier Spanjaard (LIP6)

February 2023 – June 2023

Paris, France

- > As part of a three-person group, implementation of various multidimensional analysis algorithms, in an  $n$ -dimensional space, using pre-existing libraries (**scikitlearn**) and a solver (**Gurobi**)
- > Tests and research on data from the preferences library **PrefLib** and experimentation **Voter Autrement** (Voting differently)

### Version management software

Sorbonne University, Data structures (S4), group project

February 2023 – April 2023

Paris, France

- > Designed a software that takes up the functionalities of **Git** : GitAdd, GitCommit, Git checkout-commit / -branch, Git merge

## Professional experience

### University Tutor

Student contract with Sorbonne University

September 2023 – Ongoing

Paris, France

- > For 2 hours weekly, carrying out tutoring sessions in **Data science** (LU1INMA001) and **Advanced mathematics** (LU1MA003) for around twenty first-year students
- > Improvement of students' **working methods** and constant search for new teaching techniques

### Adfaber NGO

Volunteer, online

February 2023 – December 2023

Bucharest, Romania

- > Created courses (*Introduction to programming*) and online scientific workshops for Romanian high school students
- > Participated as a judge in the international competition **Technovation Girls**

### Internship - Data Compression Methods

Jacques-Louis Lions Laboratory, supervised by Stéphane Labbé

July 2023 – August 2023

Paris, France

- > Application on image compression, using the Haar basis and wavelet transformation (with the algorithm developed, compression of more than **50% for the first level**)
- > Introduction to an application concerning **calculations in electromagnetism**, starting from the Laplace equation

## Skills

**Technical Expertise** Python (Pandas, NumPy, Scikit-learn), C, SQL, Java, OCaml, HTML, Assembly, UNIX, Gurobi, Git, LaTeX

**Languages** Bilingual in French and Romanian, Advanced in English, Notions in Spanish

## Interests

**Aerospace Engineering** Member of the Top Aero aeronautics and aerospace student association, between 2021 and 2023

**Sports** Volunteer for the **Paris 2024 Olympic Games** - *Olympic Family Assistant*, from July 26th to August 12th

**Film photography**