

Ethan Raphael

6-months internship 2025-2026

Paris, France, open to international opportunities | +33 7 83 99 99 37 | ethan.raaphael@student.uva.nl | [LinkedIn](#)

Relevant Coursework

University of Amsterdam - Stochastic and Financial Mathematics, Netherlands

02/2025 - 06/2025

- Highly specialized semester in partnership with Ecole Centrale de Marseille
- Stochastic integration and processes, data-driven decision making in operations research, machine learning theory

Ecole Centrale de Marseille - MsC Engineering, France

09/2023 - 06/2026

- **First year Masters:** asset valuation, sustainability and behavioral finance, probability and statistics, numerical mathematics
- **Key team project:** developed a **Python-based interface** for integrating **AI-driven EEG data analysis** with practitioner-friendly outputs
- **Graduation:** mathematics (GPA: 4.0/4.0), economy (GPA 4.0/4.0), 3.83/4.0 global GPA

Lycée Chaptal Paris - Preparatory Classes for Top Engineering Schools, France

09/2021 - 09/2023

- Rigorous training in mathematics and physics

Research and Professional Experience

Chief Administrative Officer - Junior Consulting Firm of Ecole Centrale de Marseille, France

12/2023 - 01/2025

- Spearheaded the organisation of the firm's **50th-anniversary** event, engaging **150 alumni and students**, under a **20,000 € budget**
- Fully formalised and managed a three-step **recruitment campaign (30% acceptance rate)**, including three **training** phases
- Established a strategic **partnership** to **sustainably standardize 80%** the new recruitment for our **three-year strategy**

Research Intern - Econometrics - Aix-Marseille School of Economics, France

12/2023 - 01/2024

- **Contributed to a paper** : *Covid-19 vaccine benefit during the Omicron wave in France (upcoming)*
- Worked with *Michel Lubrano*, emeritus research director at CNRS, and *Pierre Michel*, postdoctoral researcher and senior lecturer
- Gathered, visualised and scaled **daily data** with R programming, then developed, fitted and validated **compartmental models**
- demonstrated **conclusive t-statistics** with **11% production loss** due to vaccine hesitancy, versus **50%** if no vaccine was introduced

Assistant Office Manager - Haveagooday, Paris, France

07/2024 - 08/2024

- **Secured the planning of 99%** of the shifts and contingency staffing of **160 employees**, ensuring fulfillment for the firm's **62 clients**

Assistant Researcher - Fibonacci Institute, Paris, France

05/2023

- Modeled a dense and constrained population under panic, in collaboration with *Mauricio Garay*, mathematics PhD
- Simulated the **random diffusion of panic** through individuals by implementing a **Monte-Carlo** method
- Found a **phase transition** and a **critical panic threshold** for the appearance of clusters

Communication and coding skills

Languages

- **French** : native
- **English:** Fluent (**C1**), IELTS Band 8 - Universities of Cambridge and St-Andrews
- **German:** Intermediate (**B1**) - immersion programs in Vienna and Frankfurt

Independent initiatives

- Data analysis of a **commodities** market
- **Yale, Financial Markets** online course
- Black-Scholes and binomial tree **option pricing algorithms**

Software and Programming

- Daily use of **Microsoft Office** and **LATEX**
- Proficiency in **Excel** for data analysis, as well as **Python, R and SQL**
- basics in **JAVA** (Object-Oriented Programming)

Achievements

Dance Performances - Marseille

Sep. 2023 - May 2024

- Ecole Art Danse : performed two ballet and jazz choreographies in front of **1200 spectators** with a 5-month preparation
- Ecole Centrale de Marseille : performed solo song, dance and group choreography in front of **150 spectators** with a 3-month preparation

Ski competitions on Olympic Slopes - ESF, Val d'Isère

2017 - 2020

- Ranked in the **top 17%** of competitive skiers in France for Giant Slalom, Slalom and "Fusée" disciplines (*Ski Open, 2020*)

Diving - UNEXSO

2019

- Completed various dives, **36 meters** at the deepest, and certified both **PADI Junior Advanced Open Water** and **Emergency First Response**