



BENITO FRANCO LÓPEZ

Graduate student in Probability and Statistics
Focus on Financial Modeling and Optimization

Contact Me

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Languages

- **English** Upper-intermediate (B2)
- **German** Basic (A2)

Skills

- **Programming & Data Analysis**
 - Python, R, SQL
 - Pandas, Matplotlib, scikit-learn, yfinance
- **Machine Learning & Deep Learning**
 - TensorFlow, PyTorch
- **Cloud, Version Control & APIs**
 - Google Cloud, Git
 - OpenAI APIs

AWARDS

- **Silver Medal** – 30th Mexican Mathematical Olympiad (OMM), Guerrero, Mexico, 2016
- **Bronze Medal** – 27th Mexican Mathematical Olympiad (OMM), Hidalgo, Mexico, 2013

RELEVANT COURSEWORK

- Structured Databases
- Unstructured Databases
- Big Data
- Machine Learning
- Deep Learning
- Inferential Statistics
- Stochastic Processes
- Multivariate Analysis
- Stochastic Simulation
- Concurrent Computing
- Portfolio Optimization

Work Experience

Co-founder of Zero2Hero

January 2023 – Present

Zero2Hero is an educational initiative specializing in programming, data science, and machine learning. I co-develop technical content, design structured learning paths, and mentor students throughout their educational journey. In addition, we provide consulting and training services to companies, although this branch of our work is currently in early stages of development.

Website: www.zero2hero.lat (under construction)

Mexican Mathematical Olympiad Trainer

March 2022 - Present

I train groups of around 15 students for international competitions such as the International Mathematical Olympiad (IMO) and the Ibero-American Mathematical Olympiad, through intensive sessions focused on advanced topics in Combinatorics, Number Theory, Geometry, and Algebra.

Subject Assistant at the National Autonomous University of Mexico

January 2022 to August 2023

- I taught groups of approximately 40 students in subjects such as Calculus and Algebra

Education



M.Sc. in Probability and Statistics

Center for Research in Mathematics (CIMAT), México
Expected Graduation: August 2025

Thesis: Application of spectral clustering and network analysis to enhance portfolio diversification and performance under short-selling constraints.

Award: Ruiz Moncayo Prize for academic excellence (2024)



Six-Month Certificate Program in Finance

Institution: National Autonomous University of Mexico (UNAM)
Graduation Year: 2024

Double Bachelor's Degree

- **Bachelor's in Data Science**

Institution: National Autonomous University of Mexico, Institute for Research in Applied Mathematics and Systems (IIMAS)
Graduation Year: 2023

Distinction: Top 3 GPA of graduating class

- **Bachelor's in Mathematics**

Institution: National Autonomous University of Mexico, Faculty of Sciences
Graduation Year: 2023