



# BENITO FRANCO LÓPEZ

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

## Contact Me

benitoxb@gmail.com  
benito.franco@cimat.mx  
+52 7751529477

## 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](http://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**



CIMAT

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