

# Isabella Maria Rangel

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## EDUCATION

**University of Southern California** December 2025  
Bachelor of Arts in Mathematics

**World Bachelor in Business Program – Presidential Merit Scholarship Recipient** December 2025  
Bachelor of Science in Business Administration – University of Southern California  
Bachelor of Arts in International Business – The Hong Kong University of Science and Technology  
Bachelor of Science in World Business – Bocconi University

Coursework: Linear Algebra, Dynamic Modeling, Corporate Finance, Probability, Economic Policy, Differential Geometry

## EXPERIENCE

**OceanX** New York City, NY, USA  
*Junior Machine Learning Engineer* June 2024 – August 2024

- Built hyperparameter optimizer (Optuna) for PyTorch model, improving computer vision accuracy.
- Collaborated with the science team to establish a seafloor substrate taxonomy, sourced external training datasets, and designed a high-value image tagging process to improve training data quality.
- Engineered a custom Airbyte connector and automated data export and enrichment by integrating Zotero and Crossref APIs, enhancing science publication tracking processes.

*Data Consultant* January 2024 – April 2024  

- Analyzed image embeddings using dimensional reduction (t-SNE/UMAP) and clustering (HDBSCAN), creating interactive visualizations to deliver strategic insights to data and operations teams.

*Business Operations Intern* June 2023 – August 2023  

- Automated procurement reporting and dashboarding processes, increasing operational efficiency.
- Performed software access audit and data classification project with Python, SQL, and HTTP requests.

**Diversity VC LatAm** Remote  
*Student Consultant, Global Social Impact* January 2022 – April 2022  

- Collected and analyzed market data to evaluate impact of gender diversity in LatAm venture capital firms, visualized results, and built survey to collect primary data.

**Additional Experience:** Legal Case Worker at Kerosky & Gallelli Law, LLP (2021) – Critical Path Scheduler at Orcas Project Controls (2020) – Lab Intern at Radio-Coteau Wine Cellars (2017) – family restaurant & inn (12+ years)

## PROJECTS

**USC Math Department** Los Angeles, CA, USA  
*Directed Reading Program in Network Science* September 2024 – December 2024  

- Applied network science to directed research for international business thesis, *Optimizing Ethiopia's Cereal Crop Storage Infrastructure*, and presented research at USC Directed Reading Symposium.
- Strengthened foundation in graph theory through weekly problem-solving and discussions with PhD mentor.

**HKUST Finance Department** Clear Water Bay, HK  
*Research Assistant, Hong Kong IPO Project* February 2023 – May 2023  

- Collected Hong Kong IPO data using prospectuses and Refinitiv Eikon, conducted case study on Langham Hospitality Investments, and led quantitative analysis of 2022 IPO performance.

**Activities:** Volunteer Data Analyst for UC Davis Bodega Marine Laboratory, Coastal Oceanography Group – MIT Hong Kong Innovation Node Fintech Academy – Volunteer at Stanford Latino Entrepreneurs Initiative

## SKILLS AND INTERESTS

**Technical Skills:** Python (NumPy, Pandas, Matplotlib, Seaborn, Pytorch, Scikit-Learn, Gurobi, SciPy), Azure VM, Git, Airbyte, SQL, MATLAB, LaTeX, Oracle Primavera P6, Office 365, Jira, Smartsheets

**Languages:** English (Native), Spanish (Advanced), Italian (Beginner)

**Outdoor Enthusiast:** USC & Bocconi Sailing Teams – HKUST Climbing Team – PADI and SSI-Certified Scuba Diver