

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 Graph Theory September 2024 – December 2024

- Applied graph theory and 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 Entrepreneurship Initiative

SKILLS AND INTERESTS

Technical Skills: Python, SQL, MATLAB, LaTeX, 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 — AIARE 1 Avalanche Certified — ASA Keelboat Certifications (101, 103)