

# MARINA OLIVEIRA LEVAY REIS

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## EDUCATION

### Minerva University

San Francisco, CA

Bachelor's, Computer Science and Mathematics / GPA: 3.7

September 2023 - May 2027

- **Coursework:** Real Analysis, Physics I, II, Algorithms and Data Structures, Single and Multivariable Calculus, Linear Algebra, Statistics and Probability, Formal Logic, Complexity Theory.
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## EXPERIENCE

### Summer Geometry Initiative, MIT

San Francisco, United States

Research Fellow

April 2025 - August 2025

- Selected as the first student from my university for the six-week program under Prof. Justin Solomon. Focused on geometry processing research. Applied concepts topology, and optimal transport (OT) to develop Deep Learning models for 3D shape reconstruction and interpolation.

### Mathematical Modeling Lab, Minerva University

San Francisco, United States

Research Assistant

January 2025 - Present

- Developed physics-based simulations of solid and fluid impact dynamics using Julia, applying numerical methods (e.g. ODEs and PDEs) and geometry processing techniques (e.g. discrete mesh representations) relevant to physics-informed machine learning. Selected as 1 of 3 students (out of 160+) to mentor other incoming freshmen in the lab.

### AI Sustainability Lab, Minerva University

Taipei, Taiwan / Seoul, South Korea

Research Assistant

September 2024 - April 2025

- One of two sophomore-year teams selected among 100+ applications. Trained a Convolutional LSTM model using NASA satellite imagery, weather data, and terrain information to create probability maps that predict the spread of fires in surrounding areas. Our mission is to improve natural disaster response, helping firefighters and national agencies manage wildfires safely and efficiently. Continuation of a [hackathon project awarded by NASA](#).

### Teachy

San Francisco, United States

Machine Learning Engineer

May 2024 - September 2024

- Award-winning ed-tech startup in Latin America developing AI tools for teachers. Working as the owner of Material Importing, focusing on Data Mining, Optical Character Recognition (OCR) and OpenAI API. Developed an agentic exam solver for high volumes of PDFs using LangChain Agents. Currently importing 8,000+ processed materials to the production database per week.

### Fundação Estudar

Brasilia, Brazil

Data Science Intern

March 2023 - August 2023

- Most renowned education non-profit in Brazil. Developed exploratory data analyses (EDAs) and user segmentations with Google BigQuery and large datasets (800,000+ users). Performed A/B testing and created new ETL jobs for a dashboard that integrated product and business data, providing insights into a long-standing problem in outreach practices.
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## AWARDS

- **Honorable Mention (only undergraduate team):** X Developer Challenge (2024) – San Francisco, CA.
  - **First Place:** NASA Space Apps Challenge; selected among 100+ projects – Mountain View, CA (2023). [Blog Post](#)
  - **Scholar in Brazil's most selective technology fellowship** (Acceptance rate: 0.5%) – (2022). [Official Website](#)
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## SKILLS

- **ML/AI:** Python · C++ · PyTorch · TensorFlow · scikit-learn · REST APIs for LLMs
- **Research:** Julia (Mathematical Modelling) · Geometry Processing (Polyscope)
- **Data & Infra:** SQL (Postgres/MySQL) · BigQuery · Docker · Git
- **Others:** Technical Writing (LaTeX for publications) · Figma (UI/UX)