

# JAVIER PATRON MARTINEZ-FEDUCHY

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## EDUCATION

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**Master of Environmental Data Science** (June 2023)

**Bren School of Environmental Science & Management – University of California, Santa Barbara (UCSB)**

Highlighted Coursework: Environmental Policy Evaluation, Carbon Footprint & Accounting, Geospatial Analysis and Remote Sensing, Machine Learning in Environmental Science, Data Visualization and Communication, Modeling Environmental Systems.

**Bachelor of Mechanical and Electrical Engineering** (December 2017)

**Universidad Iberoamericana**, Mexico City

Study Abroad: UNSW Sydney, Australia.

Highlighted Coursework: Sustainability and Energy Efficiency, Computerized Innovation and Design, The Marine Environment, Global Finance, Process Technology, and Automation.

## SKILLS & RECOGNITIONS

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**Programming Languages:** R, Python, GitHub; *Familiar* with C++, HTML.

**Programming Environments:** RStudio, Google Earth Engine, Visual Studio Code, Jupyter Notebooks, QGIS.

**Technical Coding Skills:** Geospatial Analysis and Remote Sensing, Data Analysis & Statistics, Machine Learning.

**GE Company Award:** Nominated as “2021 Best Digital Worker” who embraced digital deployment in the region as an overachiever and a role model.

## MASTER’S CAPSTONE DATA SCIENCE PROJECT

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**Developing a Data Pipeline for Kelp Forest Management and Cultivation** (1/23 – 6/23)

Role: Researcher and Data Scientist | Client: Ocean Rainforest & UCSB

- Generated a dynamic, interactive, and open-source, data pipeline for running a geospatial model. This species distribution model helped us identify locations where kelp productivity and growth can be optimized for kelp restoration projects in the future.
- Synthesized datasets from the Santa Barbara Channel to examine spatial and temporal patterns in kelp-related variables, such as oceanographic factors, sea surface temperature, substrate and more.

## EXPERIENCE

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**Environmental Data Analyst – Silvestrum Climate Associates**, remote (7/23 – Present)

- Specialize in carbon finance projects with data science and project management, covering remote sensing, hydrofluid analysis, and carbon modeling. Developed a reproducible Arcpy script for biomass and soil carbon estimation in 120 countries (1996-2022), and working in line with Verra methodologies for carbon project monitoring data procedures with indices and remote sensing.
- Conduct sea level rise analysis for internal risk assessment in carbon projects and implemented business analytics for workload spreadsheets to enhance efficiency in task distribution among team members.

**Intern, Data Project Manager – Silvestrum Climate Associates**, remote (1/23 – 6/23)

- Focusing on carbon accounting methodologies like Verra and Plan Vivo, statistical modeling, and empirical analysis for blue carbon ecosystems and carbon initiatives.
- Collaborated as a Project Manager with experts in carbon science, land use, and remote sensing for a carbon project in Yucatan, Mexico, focusing on the technical side with analysis, GIS, and project development.

**Intern, Collaboration with Center of Biodiversity and Conservation – UCSD, BCS, Mexico** (5/22 – 8/22)

- Bridged data science and management with an open-source integrated workflow for MPAs.
- Developed a QR data-driven project mechanism to extract current MPA biodiversity health data from recreational divers.

**Customer Support Lead – Current by GE, Mexico City, Mexico (6/20 – 7/21)**

Global commissioning and tech-support team leader for GE Current's smart controls software.

- Managed an 18-person global tech-support team, leading tech support operations supporting the business strategy new software and enhance IoT and AI solution capabilities.
- USD \$5.8M in revenue recognition.
- Technical leader for GE Current's largest gateway programming implementation for energy efficiency and IoT, AI software in over 1250 stores across Mexico.

**Digital Project Manager – Current Powered by GE, Mexico City, Mexico (2/18 – 6/20)**

Lead as a consultant and project manager for all Latin America Turn-Key projects.

- Sole LatAm resource for the lighting control software implementation. Internal and external training, solutioning/ troubleshooting, and support for all current and completed projects.
- Client's POC and project coordinator for third-party contractors, report project status, budget, and risks to GE leadership (LatAm, USA, AUS).

**Projects Intern – General Electric, Mexico City, Mexico (5/17 – 2/18)**

Project Management Intern / Order to Remittance team

- Hand out weekly reports with the installation contractor, and field quality checks for the installation process.
- GE Lean Challenge competitor leveraging savings based on storage volume and shipment times

**ADDITIONAL EXPERIENCE**

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**Coral Farming – Corals 4 Conservation, Mamanuca Islands, Fiji (9/21 – 11/21)**

Volunteering program to maintain, analyze and grow the coral nursery tables and mangrove reforestation programs with local marine biologists. Replanted over 500 corals with transects data practices.

**Yachting, Pacific Ocean (7/21 – 9/21)**

Sailed across the Pacific Ocean as Pro-Sailor in a 52ft racing boat, as a Team Manager, tactician, and watch captain. Participated in 3 international offshore regattas (CaboRace, SoCal300, Transpac Regatta).

**ADDITIONAL SKILLS AND CERTIFICATIONS**

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**Languages:** Fluent in English and Spanish

**Certifications:** PADI Rescue Diver, Mexican Yacht Skipper License, Emergency First Respond & CPR certifications, Public Speaking, Advance Speed Reading, and Concepts.

**Citizenships:** Mexican & Spanish.

**Other:** Authorized to work in the US (no sponsorship required).