JAVIER PATRON MARTINEZ-FEDUCHY

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EDUCATION

Master of Environmental Data Science (June 2023)
Bren School of Environmental Science & Management – University of California, Santa Barbara (UCSB)
Highlighted Coursework: Environmental Policy Evaluation, 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

Programming Languages: R, Python, GitHub, SQL; *Familiar* with C++, HTML.
Programming Environments: RStudio, QGIS, Google Earth Engine, Visual Studio Code, Jupyter Notebooks.
Technical Coding Skills: Geospatial Analysis and Remote Sensing, Data Analysis, Statistics & Machine Learning.
General Electric 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

Developing a Data Pipeline for Kelp Forest Management and Cultivation (*1/23 – 6/23)*
Role: Researcher and Data Scientist │ Client: Ocean Rainforest & UCSB | Github
- Generated a dynamic and interactive open-source data pipeline to run a geospatial model, with all collaboration conducted through GitHub among four teammates. This species distribution model helped identify optimal locations for future kelp restoration projects by enhancing kelp productivity and growth.
- Synthesized datasets from the Santa Barbara Channel, examining spatial and temporal patterns in kelp-related variables, such as oceanographic factors, sea surface temperature, and substrate.

EXPERIENCE

Environmental Data Analyst – Silvestrum Climate Associates, remote (7/23 – Present)
- Specialize in Nature-Based Solutions for carbon projects, employing data science with a focus on remote sensing, GIS, and ocean hydrology. Develop and apply QC/QA procedures and environmental carbon models, enhancing project deliverables and outcomes.
- Utilize machine learning and NASA ARSET for mapping blue carbon areas using GEE, create ArcPy scripts for global carbon stock estimation, and establish SOPs for mangrove quantification.
- Transform data analysis into interactive visualizations for stakeholder engagement and decision-making. Innovate data management solutions to optimize team efficiency and Silvestrum project pipeline.

Intern, Data Project Manager – Silvestrum Climate Associates, remote (1/23 – 6/23)
- Focused 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 most extensive gateway programming implementation, optimizing energy efficiency in over 1250 stores across Mexico using IoT and AI software, leading to substantial sustainable energy savings.

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

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

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).