

PALOMA CARTWRIGHT (she/her)

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EDUCATION

Master of Environmental Data Science, 4.0 GPA (Expected June 2022)

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

Highlighted Coursework: Remote Sensing & Environmental Data; Statistics for Environmental Data Science; Spatial Analysis; Machine Learning; Data Visualization & Communication; Environmental Policy Evaluation; Modeling Environmental Systems; Ethics & Bias in Environmental Data Science (all completed by 6/22)

Leadership/Involvement: MEDS 2022 Class Co-Chair; MEDS Dean's Advisory Council Representative; Member of Bren Environmental Justice Club; Member of UCSB Black Graduate Student Association

Honors/Awards: Bren School Environmental Data Science Fellowship

Bachelor of Arts in Computer Science and Environment, 3.31 GPA (June 2021)

McGill University, Montreal, Quebec, Canada

Highlighted Coursework: Knowledge, Ethics & Environment; Society, Environment & Sustainability; Artificial Intelligence; Algorithms & Data Structures; Programming Languages & Paradigms; Probability; Calculus 1, 2 & 3; Linear Algebra 1 & 2; Computer & Software Systems

Honors/Awards: Ministry of Higher Education, Quebec: Excellence Bursary for Computer Science 2021; James McGill Scholarship for Academic Excellence and Outstanding Leadership 2017; All Bahamas Merit Scholar and Student Ambassador for The Bahamas 2017

Leadership/Involvement: VP Events – Caribbean Student Society (9/20–4/21); Peer Supporter McGill (9/19–4/20); McGill Model United Nations Symposium Volunteer (9/18–4/20)

MASTER'S CAPSTONE DATA SCIENCE PROJECT (Thesis Equivalent)

Renewable Energy Siting Predictors Observed from National Data for Wind and Solar (RESPOND Wind and Solar) (1/22–6/22)

Role: Communication Manager | **Client**: Grace Wu, UCSB Environmental Studies

Deliverables: Prediction Maps, GitHub Repository, Final Presentation and Report, R Shiny App (Stretch Goal)

- Identifying the historic drivers of wind and solar power plant siting based on a pilot study on 11 western US states using logistic regression and random forest machine learning in R and Python
- Evaluating the relationship of renewable energy siting with transmission, socio-economic indicators and local climate and other policies to help policymakers better understand the drivers of siting
- Ensure the progress of the project is effectively communicated with the client and create public facing materials on the project as required by Bren, the client or other stakeholders
- Collaborating with 3 other team members to ensure the project hits all its targeted goals on schedule

PROFESSIONAL EXPERIENCE

Graduate Student Researcher (9/21–Present)

Benioff Ocean Initiative, UCSB, Santa Barbara, California

- Analyze and visualize 4 types of spatial ocean data, including vessel data and whale data from real-time acoustic monitors, visual sightings, and dynamic habitat models to assist with the Whale Safe project
- Research and write briefings on marine issues to inform Benioff Ocean Initiative projects and partnerships
- Google BigQuery database management using SQL and RStudio to create, update, and run queries

Information Technology Coordinator (6/17–Present)

Long Island Boat Rentals and Tours, Long Island, The Bahamas

- Created and launched the first website for the company using HTML, CSS, and JavaScript
- Designed and outlined marketing strategy for social media team and hired 2 team members for the role
- Review and update website monthly, working with the team to update as they see fit

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Field Research Intern (6/19–7/19)

Bimini Biological Field Station Foundation, Bimini, The Bahamas

- Collect data for PhD students' projects specifically focusing on lemon sharks' response to marine noise and Great Hammerhead shark migratory feeding patterns; results published in two papers
- Collaborated with 20 colleagues on collecting data for 9 shark and 3 stingray species in Bimini
- Completed field safety and boating safety courses as well as boat captaining course
- Aid in the daily running of the field station, including maintenance and repairs to all tools used in the field

Research Intern (6/14–8/19)

Family Island Sea Turtle Research, Long Island, The Bahamas

- Assisted with turtle tagging and data collection during summers with all 4 turtle species present
- Monitor populations of green turtles infected with fibropapilloma virus and document the advancement of their diseases as well as the spread throughout 3 islands of The Bahamas

ADDITIONAL EXPERIENCE

Member of Bahamas National Sailing Team, The Bahamas, (8/10–Present)

Represented The Bahamas internationally in 3 sailing classes and 5 events. Currently a member of the Bahamas Nacra 17 Racing Team with possible 2024 Olympic Campaign

Head Coach – Mack Knowles Junior Sailing Club, Long Island, The Bahamas (6/18–8/19)

Organized the 1st Annual Summer Sailing Camp, leading a team of 10 instructors and over 70+ students; Head Coach for Long Island's sailing team, representing the island on a national level at 5 events each year

Certified Instructor – Bahamas National Sailing School, New Providence, The Bahamas (6/14–8/18)

Lead Instructor for 6-week summer camp supervising 12 instructors and over 100 sailors
Completed First Aid and CPR course, lifeguard and water safety course & boat captain course for certification

Deputy Junior Minister of Tourism – Ministry of Tourism Bahamas, The Bahamas (9/16–6/17)

Collaborated with a team of 15 in The Bahamas Ministry of Tourism to bring innovative ideas for refactoring Tourism strategies in The Bahamas and make initiatives more sustainable

SKILLS & HONORS

Programming Languages and Environments: Python (Jupyter & Spyder); Java (Eclipse & IntelliJ); R (RStudio); SQL; CSS; HTML; JavaScript; GitHub (+ GitHub Pages); Google Cloud Platform (BigQuery, Cloud Functions)

Project Management: Clockify; Dropbox; Slack; ZenHub; Zoom; Microsoft Office Suite (Excel, Word, PowerPoint, Teams); Google Suite (Docs, Sheets, Slides)

Certifications: IANTD (Scuba); Certified Sailing Instructor with Boating Certification; Web Development with JavaScript Certified

Awards: National Youth Award: Excellence in Sailing; Bahamas Olympic Committee President's Cup Award; All Bahamas Merit Scholar