

JULIA HSIAO-WEN REN JACKSON

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EDUCATION

UNH Center for Coastal and Ocean Mapping/NOAA Joint Hydrographic Center, Durham, NH **July 2024**
Certificate in Ocean Mapping (FIG/IHO/ICA Category A) Current GPA: 4.00/4.00

- Learning to plan and execute hydrographic surveys
- Studying foundational physical sciences and mathematics related to marine survey technology, including single and multibeam echosounders, side-scan sonars, sub bottom profilers, CTDs, GNSS, etc.
- Certificate meets requirements for the Category A FIG/IHO/ICA Standards of Competence for Hydrographic Surveyors
- Relevant Courses: applied tools for ocean mapping, advanced topics in ocean mapping, math for geodesy, physical oceanography, marine geoscience, geodesy and positioning, seamanship and marine weather, hydrographic field course

Thayer School of Engineering, Hanover, NH **November 2019**
Bachelor of Engineering, Environmental Engineering GPA 3.72/4.00
Special Faculty Award for Engineering and Service to Humanity

Dartmouth College, Hanover, NH **June 2019**
Bachelor of Arts, Engineering Sciences, Minor in Chinese GPA 3.69/4.00
Cum Laude, Gamma Sigma Alpha National Greek Honor Society

Beijing Normal University, Beijing, China **June 2016 – August 2016**
Chinese language study abroad

Phillips Academy Andover, Andover, MA **June 2015**
Cum Laude Society

PROFESSIONAL EXPERIENCE

OW Ocean Winds/SouthCoast Wind, Boston, MA, *Permitting Associate* **April 2020 – August 2023**

- Led marine permitting for offshore wind geophysical and geotechnical surveys; obtained IHAs and survey plan approvals, held pre-survey meetings, ensured compliance with BOEM project design criteria and Lease stipulations
- Worked with BOEM, NMFS, USACE, and other federal, state, and local agencies and tribal nations to obtain necessary federal permits (COP approval, OCS Air Permit, Section 10/404 Permit, etc.) for the SouthCoast Wind Project
- Managed and collaborated with specialists to prepare environmental assessments and reports (ex. archaeological resources, geohazards, marine mammals, benthic habitats, water quality, sediment dispersion, terrestrial vegetation, etc.)

National Grid USA, Waltham, MA, *Customer Energy Integration (CEI) Intern* **June 2019 – August 2019**

- Collaborated with project managers to oversee the connection of renewable energy sites to the New England power grid
- Developed analytical Excel spreadsheets to routinely and efficiently profile over 500 National Grid solar sites
- Implemented Excel mapping procedure to optimize project delegation and organizational changes
- Streamlined National Grid's interconnection process by consolidating and organizing critical case documents and data in Salesforce for easier customer and project manager access

Woods Hole Oceanographic Institution, Woods Hole, MA, *Marine Chemistry Guest Student* **January 2018 – March 2018**

- Designed and executed original experiments under the mentorship of Dr. Chris Reddy and Dr. Collin Ward
- Work published on Oct. 10, 2019: "[Sunlight Converts Polystyrene to CO₂ and Dissolved Organic Carbon](#)"

New England Aquarium, Boston, MA, *Marine Mammal Research & Education Intern* **March 2017 – June 2017**

- Recorded behavioral data on 30+ trips, took photographs to identify, document, and track individual humpback whales
- Educated 50-300 whale watch tourists per trip about marine life, conservation, and Boston history in Mandarin and English
- Trained 9 new summer interns in data collection, passenger education, and boat safety

SKILLS & INTERESTS

Computing: Python, MATLAB, C, QGIS, HYPACK, Microsoft Office, Adobe Creative Suite, Aconex

Languages: English (native), Mandarin (conversational)

Interests: Traveling, cooking, 3D art and sculpture, SCUBA diving, ice hockey