

# DECLAN TRACY | GIS ANALYST

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(353) 85 741 1410

## Professional Profile

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MSc graduate in Applied Marine and Coastal Management (University College Cork) with extensive expertise in GIS, seafloor mapping, and offshore wind energy research. Experienced in applied geography, data analysis, and stakeholder engagement through academic and field projects. Seeking to contribute technical and analytical skills to the offshore renewable energy sector in Ireland.

## Skills

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- Geographic Information Systems (ArcGIS/QGIS)
- Data Visualization
- Communication
- Seafloor Mapping (Qimera)
- AUV photo Analysis
- Excel
- Remote Sensing (ENVI)
- Offshore Wind
- Python

## Work Experience

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### Research Assistant

Surf Geophysics Laboratory, Western Washington University, USA

Jun 2023 - Jun 2024

#### Overview

Conducted detailed analysis of over 30,000 images from Autonomous Underwater Vehicles (AUVs), and georeferenced results using GIS. Worked independently on research projects and briefed the research team on results. Shared new findings through presentations and at conference events.

#### Key Responsibilities

- Classified seabed types using images from the Sentry AUV (operated by Woods Hole Oceanographic Institute)
- Mapped results to high resolution bathymetry data using ArcGIS
- Worked as an undergraduate in a team of researchers that included professors, postdocs, and PhD candidates
- Accurately managed high volumes of data such as bathymetry, AUV sensor, and seafloor photo files
- Presented results of research at the 2023 American Geophysical Conference

**Day Manager**  
**Cal Sailing Club, USA**

**Jun 2020 - Jun 2023**

*Overview*

Worked as the day manager of the non-profit Cal Sailing Club, ensuring safety for on-water and off-water activities and enforcing regulations of the sailing club. Operated motor boat to provide rescues and tow vessels, as well as to facilitate club activities and sailing lessons.

*Key Responsibilities*

- Primary site supervisor for all activities for the Cal Sailing Club in Berkeley, California, USA.
- Ensured safety of water users by using motor boat to rescue those in need and enforce safety regulations
- Assigned and supervised volunteer work by club members
- Answered questions and advised prospective members

**Waterfront Operations Staff**  
**Community Boating Center, USA**

**Apr 2021 - Sep 2021**

*Overview*

Worked in customer service at the non-profit Community Boating Center in Bellingham, Washington, USA. Supervised rentals, handled cash and card transactions and assisted customers.

*Key Responsibilities*

- Supervised waterfront operations such as sailboat, kayak, and paddleboard deployment
- Handled cash, card, and credit transactions
- Provided assistance to sailing/paddling classes when necessary
- Ensured that business was clean, and performed repairs on equipment when necessary

**Sailing Instructor**  
**UC Berkeley Aquatic Center, USA**

**Jun 2018 - Sep 2022**

*Overview*

Worked as a lead sailing instructor for youth and adult classes for University of Berkeley, California's aquatic center. Organized classes, edited curriculum, and lectured students at multiple skill levels. Supervised children ages 6-17 in activities on land and in the water. Additionally, facilitated equipment rentals to the general public.

*Key Responsibilities*

- Planned and taught sailing, windsurfing, kayaking, and paddleboarding classes for adults and children
- Supervised youth ages 6-17
- Ensured safety on the water, using motor boat to supervise and perform rescues when needed
- Handled cash and card transactions with customers
- Consulted with parents of students to ensure best experiences for the customers

## Additional Research Experience

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- Completed thesis on offshore wind energy site selection in Irish Exclusive Economic Zone, and presented results at University College Cork
- Participated in a 10-day research cruise offshore of Alaska, onboard the R/V Marcus G. Langseth. Operated multibeam bathymetric sonar, processed bathymetric data, deployed/recovered scientific equipment such as Ocean-Bottom Seismometers, Sound Velocity Profilers, and more
- Participated in a two-day research and training course on board the R/V Tom Crean operated multibeam bathymetric sonar and acquired seabed samples
- Worked as a research assistant deploying Acoustic Doppler Current Profilers (ADCPs) to measure tidal currents in an indigenous clam garden

## Education

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- MSc, Applied Marine and Coastal Management — University College Cork **(2024-2025)**
- BS, Marine and Coastal Science — Western Washington University **(2020-2024)**

## References Available Upon Request

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