

# Emily Rhodes

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## PROFESSIONAL PROFILE

Dynamic international science educator with experience teaching middle and high school students in diverse, multilingual classrooms. Skilled in NGSS-aligned curriculum design, inquiry-based learning, and project-based STEM instruction. Experienced in differentiated teaching, classroom technology integration, and cross-curricular collaboration. Dedicated to fostering environmental literacy, critical thinking, and a student-centered classroom culture where learners feel supported and inspired.

## EDUCATION

**Master of Marine Biology** – *James Cook University, Townsville, Australia (Jul 2023 – Jun 2025)*

GPA: 6.0/7.0 | Specialization: Marine Genomics | Thesis: Optimization of DNA extraction methods for high-throughput genotyping of Barramundi

**Bachelor of Earth and Atmospheric Science** – *Cornell University, Ithaca, NY, USA (Aug 2014 – Jun 2018)*.

**District of Columbia Standard Educator Credential — General Science (Grades 7–12)**

*Valid 2025–2029 (Issued by OSSE)*

## TEACHING EXPERIENCE

**SAT/ACT Tutor** – *Studypoint, Philadelphia/Remote (Dec 2025 – present)*

- Providing individualized SAT and ACT tutoring, supporting students in building confidence, organization, and effective study strategies.
- Building strong rapport with students and families through consistent communication, reliability, and student-centered support.

**Secondary School Science Teacher** – *American Overseas School of Rome, Italy (Aug 2021 – Jun 2023)*

- Developed and delivered NGSS-aligned curricula for grades 6–9, focusing on phenomenon-based learning and real-world environmental issues.
- Guided students through project-based units (e.g., investigating algae blooms) integrating biology, chemistry, and physics concepts.
- Led a field trip to Liguria, connecting classroom learning with marine conservation topics, including plastic pollution impacts.
- Supported English Language Learners (ELL) through structured vocabulary development and collaboration with aides.

- Introduced hands-on lab experiences including squid dissections, microscopy, and ecological data collection.
- Co-led the Go Green environmental club and chaperoned middle school events, contributing to a vibrant school community.
- Integrated digital tools (Google Suite, online simulations, assessment platforms) to enhance learning.

**Marine Science Instructor – Catalina Island Marine Institute, Avalon, CA, USA (Jan 2020 – Jun 2020)**

- Led immersive science programs for grades 4–12 combining field sampling, lab experiments, and conservation activities.
- Contributed to curriculum development for outdoor STEM learning.

**Environmental Educator – Camp Orkila, Orcas Island, WA, USA (Mar 2019 – Nov 2019)**

- Designed and led outdoor environmental education programs for elementary and middle school students.
- Facilitated collaborative projects fostering environmental stewardship.

## RESEARCH EXPERIENCE

**Student Researcher – James Cook University (Aug 2024 – Jun 2025)**

- Selected and optimized DNA extraction techniques for high-throughput SNP genotyping of Barramundi.
- Conducted molecular biology QC analyses and bioinformatics processing using bcftools and PLINK.

**Research Cruise Participant – R/V Sonne, Cruise SO308/2 (Dec 2024 – Jan 2025)**

- Collected plankton and water samples for eDNA and primary productivity analyses.
- Contributed findings to the final research cruise report.

**Intertidal Ecology Intern – Shoals Marine Laboratory, ME, USA (Jul 2017 – Aug 2017)**

- Conducted intertidal biodiversity surveys, analyzed data in MATLAB, and presented findings on Chondrus crispus decline at RARGOM conference.

**Research Assistant – Cornell University, Ithaca, NY, USA (Jan 2017 – May 2017)**

- Analyzed NASA satellite imagery to study chlorophyll variability in Fiji waters using Python and MATLAB.

## TECHNICAL SKILLS AND CERTIFICATIONS

- Python, R, MATLAB, ArcGIS
- bcftools, PLINK, QIIME, DESeq2
- Google Classroom, PowerSchool, online labs
- RAID Advanced Open Water SCUBA
- Naturalist Training Level-1
- California Boating Safety Certificate
- Waterfront Lifeguarding/CPR/First Aid/AED