

# TESS O'MARA HOOPER

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## EDUCATION

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**Master of Environmental Science and Management** (Expected June 2020)

**Bren School of Environmental Science & Management — University of California, Santa Barbara**

Specialization: Conservation Planning | Focus: Strategic Environmental Communications & Media

**Bachelor of Science in Outdoor Adventure Leadership**, Magna Cum Laude (December 2013)

**Bachelor of Arts in Environmental Studies**, Magna Cum Laude (December 2013)

**Ithaca College — Ithaca, NY**

Concentration: Human-Environment Interactions

## COMMUNICATION & ENVIRONMENTAL EXPERIENCE

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**Project Manager and Financial Manager Master's Group Project**, The Nature Conservancy, CA (4/19 – 5/20)

- External Project Manager and External Finance Manager for the group of 5 students for our project, *Analyzing the Ecological Impacts of Environmental Education on Nature Reserves*
- Coordinated and headed meetings with the project client (The Nature Conservancy) and guided group to meet project objectives and goals
- Built a comprehensive multi-criteria model in ArcGIS to identify suitable areas for education programming on the Dangermond Preserve and the potential impacts of access within these areas
- Designed a Shiny App in RStudio to serve as a decision-making tool for The Nature Conservancy and associated environmental education facilitators.

**Environmental Education Consultant**, The Nature Conservancy, The Dangermond Preserve, CA (1/19 – 6/19)

- Conducted literature review, data collection, and survey design to support the development of an on-site environmental education program with focus on low-income marginalized communities in Lompoc, CA
- Designed and conducted student survey for first overnight pilot program on the preserve to gauge program success.

**Middle School Science and STEAM Teacher**, The Shipley School, Bryn Mawr, PA (8/15 – 8/18)

- Instructed 6<sup>th</sup> & 7<sup>th</sup> Grade Science and STEAM curriculum (Hydrology, Architecture, Geology, and Energy)
- Helped students use technology, code for Arduino using C/C++ language, and complete independent projects
- Acted as point person for 6th grade advisees and parents, developed self-advocacy and independence in students, and facilitated establishment and achievement of student learning goals

**Field Technician**, The Academy of Natural Sciences, Philadelphia, PA (Summers 2015 – 2017)

- Sampled soft algae and diatoms within 100-meter reaches within the Delaware River Watershed Initiative in order to determine and monitor short and long-term ecological health
- Conducted visual habitat assessments along each reach, in compliance with New Jersey's Department of Ecological Protection's "Stream Monitoring Manual" to ensure data accuracy and objectivity

**Environmental Educator**, The Schuylkill Center for Environmental Education, Philadelphia, PA (4/14 – 8/15)

- Led school group environmental education programs; taught aquatic ecology, water quality, and field habitats
- Heeded and facilitated overnight camping trips during summers and modeled outdoor living principles like Leave No Trace through hands on learning in order to transfer environmental stewardship and self-reliance

**Teacher Naturalist**, The Academy of Natural Sciences, Philadelphia, PA (9/14-6/15)

- Taught science programs for visiting school groups and the public throughout the year
- Handled live invertebrates and developed activities for public and students in order to promote observation and comparison skills

## SKILLS, CERTIFICATIONS, AND AFFILIATIONS

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**Skills:** Microsoft Office (Word, Excel, PowerPoint), RStudio, C/C++ Coding for Arduino, ArcGIS

**Certifications:** Leave No Trace Master Educator, PADI Advanced Open Water Diver, Inclusivity Assessor