

Margaret “Molly” Wilson

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Bren School, U.C. Santa Barbara • Santa Barbara, CA 93106

- Career Objectives:** Advancing ecological and social understanding of small-scale fisheries in tropical reef systems, and applying these insights to address management challenges. Research interests include herbivore fisheries management, coral reef tipping point dynamics, and social-ecological tradeoffs in reef fisheries.
- Key Skills:**
- **Marine ecological fieldwork:** Extensive knowledge of Caribbean reef species and experience conducting modified AGRRA dive transects, ROV video transects, and collecting fisheries catch data.
 - **Social fieldwork:** Experience designing surveys, conducting over 75 fisherman interviews in Spanish, and managing and analyzing social data.
 - **Language:** Fluent in Spanish.
 - **Computer:** ArcGIS and ENVI Remote Sensing software, STATA Statistics, STELLA Modeling, Microsoft Access and Excel database management, Adobe InDesign.
 - **Diving:** PADI Rescue-Certified Diver, AIDA 3-star freediver
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- Education:**
- UNIVERSITY OF CALIFORNIA, SANTA BARBARA
PhD Student, Bren School of Environmental Science & Management*Anticipated 2020*
Co-advised by Dr. Ben Halpern and Dr. Steve Gaines
- DARTMOUTH COLLEGE, Hanover, NH
B.A. in Biology, GPA: 3.82/4.0*June 2013*
Magna cum laude, 3 Citations for Academic Excellence
- Honors & Awards:**
- Graduate Research Fellowship, National Science Foundation..... *2015-2018*
 - Chancellor’s Fellowship, U.C. Santa Barbara..... *2018-2020*
 - James B. Reynolds Research Fellowship, Dartmouth College..... *2014-2015*
 - Dickey Center International Fellowship, Dartmouth College..... *2012*
 - Presidential Scholar, Dartmouth College..... *2011*
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- Research & Employment:**
- JAMES B. REYNOLDS RESEARCH FELLOWSHIP, Antigua
Researcher, Consultant..... *Nov. 2014 – July 2015*
Received \$20,000 grant through Dartmouth College’s James B. Reynold’s Fellowship to conduct a nine-month study in Antigua on the interaction effects of substrate texture and *Diadema antillarum* urchin grazing on algal succession on reefs. Conducted reef monitoring work for local conservation projects and marine planning initiatives.
- SUSTAINABLE FISHERIES STUDY, Dominican Republic & Hanover, NH
Researcher, Consultant..... *June 2012 – June 2014*
Conducted social and ecological research and developed management strategies in a small-scale fishery through dive transects, catch data, GoPro fishing footage, and field interviews in Spanish. Collaborated with fishermen, government groups, potential investors and non-profit organizations.

RARE, Arlington, VA

Research Intern.....*Sep. – Nov. 2014*

Conducted research on how Rare might address climate change mitigation and adaptation through its Fish Forever and *Acuerdos Recíprocos por Agua* (reciprocal water rights) initiatives, as well as on the role of government engagement in Rare's strategic planning. Compiled final report and presented findings to Rare executives and staff.

DARTMOUTH ENVIRONMENTAL STUDIES DEPT., Hanover, NH

Research Assistant to Dr. Michael Cox*Sep. 2013 – July 2014*

Used tools such as GIS mapping, remote sensing image analysis, and field surveys to study the management of natural resources including New England forests, irrigation systems in Colorado and New Mexico, and continuing research on fisheries management in the Dominican Republic.

UNIVERSITY OF MAINE DARLING MARINE CENTER, Walpole, ME

Research Assistant to Dr. Robert Steneck.....*June – Aug. 2013*

Operated Remotely Operated Vehicle (ROV) to conduct video transects of the Gulf of Maine floor. Collected and analyzed data to aid in marine spatial planning for offshore wind turbines.

Publications: **Wilson, M.**, T. Pavlowich, and M. Cox. 2015. Studying Common-Pool Resources over Time: a Longitudinal Case Study of the Buen Hombre Fishery in the Dominican Republic. *Ambio*: 1-15.

Wilson, M. 2015. Architectural Complexity of Bonaire's Coral Reefs. In R. Steneck et. al (Eds.), *Status and Trends of Bonaire's Coral Reefs in 2015*. University of Maine: 66-71.

Cox, M., **M. Wilson**, and T. Pavlowich. 2015. The challenges of local governance: gear-based fragmentation in the Dominican fishery of Buen Hombre. In press at *Marine Policy*.

Cox, M., **M. Wilson**, and R. Lipfert. Evaluating a Popular Social-Ecological Systems Framework. In review at *Global Environmental Change*.

Other Experience:

- Dartmouth Varsity Sailing Team: 4-year member and 2-year co-captain. Finished in third place at the 2013 National Championships and named 2013 Academic All-American. Awarded 2013 Larry Conover Trophy for sportsmanship and 2010 Unsung Hero Trophy.
- Extensive experience traveling abroad and living and working on boats.

References: Dr. Michael Cox • Assistant Professor, Environmental Studies, Dartmouth College
Past employer, advisor • Michael.E.Cox@Dartmouth.edu • (603) 646-0544

Dr. Robert Steneck • Professor, School of Marine Sciences, University of Maine
Advisor • Steneck@Maine.edu • (207) 581-5315

Dr. Frederick Payton • Executive Director, AgroFrontera
Collaborator for Dominican Republic project • fpayton@agrofrontera.org • (809) 697 6955