

# Tyler S. Clavelle

Project Researcher, Sustainable Fisheries Group

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## EDUCATION

*Bren School of Environmental Science & Management, University of California, Santa Barbara* 2014  
Master of Environmental Science and Management (MESM)

*Bucknell University* 2009  
B.A. Economics & Biology, *cum laude*

## EMPLOYMENT

*Sustainable Fisheries Group (SFG), UC Santa Barbara:* 2013 - present  
**Project Researcher** 07/14 - present

- Multidisciplinary researcher performing quantitative analyses of marine resources and policies for academic publications (see next page) as well as applied projects for NGOs and government agencies
- Areas of focus include bioeconomic and spatial modeling, remote sensing and supervised classification, economic valuation, and cost-benefit analysis
- Using various programming languages (R, Python, SQL) to compile, analyze, and visualize data from diverse sources including web APIs.
- Using git/GitHub for management, collaboration, and version control of all project code
- Developing interactive web applications and automated reports for sharing project results with collaborators, clients, and the public
- Scoping promising new projects and writing grants proposals
- Introduced and oversees several team-wide project management tools, including Slack, GitHub, and Asana
- Communicating complex analyses to a wide array of audiences - academics, NGOs, government officials, and the general public

**Ecosystem Service Valuation Intern** 6/13 - 12/13

- Conducted an economic valuation of marine ecosystem services in support of the successful declaration of two marine protected areas (MPAs) in The Bahamas.
- Used GIS to identify, map, and quantify the areas of five marine habitat types within proposed boundaries

*MER Consultants LLC:* 2017

### Independent Contractor

- Built a simulation model to evaluate management options for the Philippine's sardine fishery
- Developed an interactive decision support tool for the client to engage policy makers

*Bimini Biological Field Station, Bimini, The Bahamas:* 2010-2011

### Assistant Lab Manager

## SKILLS

**Advanced** - R, Shiny, GitHub, Google Earth Engine

**Proficient** - SQL, HTML/CSS, Python, Jupyter Notebooks

**Familiar** - Docker, Google Cloud Platform

## PUBLICATIONS

Burgess MG, McDermott GR, Owashi B, Peavey Reeves LE, **Clavelle T**, Ovando D, Wallace BP, Lewison RL, Gaines SD, Costello C. In press. Protecting marine mammals, turtles, and birds by rebuilding global fisheries. *Science*.

Costello C, Ovando D, **Clavelle T**, et al. (2016). Global fishery prospects under contrasting management regimes. *Proceedings of the National Academy of Sciences*, 201520420.

Melnychuk MC, **Clavelle T**, Owashi B, & Strauss CK. (2016). Re-construction of global ex-vessel prices of fished species. *ICES Journal of Marine Science*. doi: 10.1093/icesjms/fsw169.

**Clavelle T**, Lester SE, Gentry R, Froehlich HE. (in review). Interactions and management for the future of marine aquaculture and capture fisheries.

Froehlich HE, Jacobsen NS, Essington TE, **Clavelle T**, Halpern BS. (in review). Avoiding the ecological limits of forage fish for aquaculture.

Thomas L, **Clavelle T**, Lester SE, Klinger DH. (in prep). Charting an aquaculture future for the Caribbean.