

# MICHAEL “PIKE” SPECTOR

Marine Scientist - NOAA Olympic Coast National Marine Sanctuary



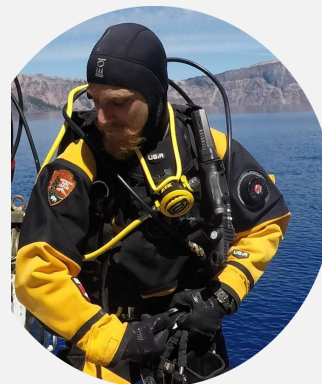
## EDUCATION

- 2016 • **San Diego State University**  
M.S. in Biology 📍 San Diego, California  
  
Advisor: Dr. Matthew Edwards  
  
Thesis: *Speaking for the Understory: Quantifying the Loss of Benthic Production on Temperate Rocky Reefs*
- 2012 • **University of California Santa Cruz**  
B.S. in Marine Biology 📍 Santa Cruz, California



## SELECTED PUBLICATIONS

- 2022 • **Network analysis reveals aggregation behaviour of a historically overfished predator at an offshore island.**  
Journal of Fish Biology: <https://doi.org/10.1111/jfb.15181>.  
**Spector M.**<sup>a</sup>, Clevens A.<sup>a</sup>, Caldow C., Cajandig M., Duncan, L., Peavy-Reeves L., and Freedman R.  
  
<sup>a</sup>Both authors contributed equally to this paper
- 2021 • **Webenizing Condition Reports: communicating data-driven ecosystem indicators in a visually engaging and interactive online platform.**  
[Sanctuary Conservation Series](#)  
**Spector M.**, Best B., Raganathan J., Murray T., Caldow C., Brown J., Canonico G., and DeVogelaere A.
- 2020 • **Modeling the impacts of kelp deforestation on benthic primary production.**  
Algae: <https://doi.org/10.4490/algae.2020.35.8.19>  
**Spector M.** and M Edwards
- 2020 • **Marine deforestation leads to widespread loss of ecosystem function**  
PLoS ONE: <https://doi.org/10.1371/journal.pone.0226173>  
Edwards M., Konar B., Kim J-H., Gabara S., Sullaway G., McHugh T., **Spector M.**, and S Small.



## CONTACT INFO

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🐦 [Baron von Urchin](#)  
🔗 [github.com/mspector13](https://github.com/mspector13)  
📞 +1 310.880.9311

For more information, please contact me via email.

## SKILLS

Highly skilled in scientific SCUBA diving, field collections, and ecological surveys

Experienced in statistical analysis, data visualization, and experimental design.

Proficient with GitHub functionality; Markdown (YAML); R; SQL; Git; BASH; Google Suite

*This resume was made with the R package [pagedown](#).*



## SCIENCE COMMUNICATION

- 2020 • **A safe haven in a changing world: Can Channel Islands National Marine Sanctuary Serve as a Local Refuge Against Ocean Acidification?**  
[Office of National Marine Sanctuaries - Webstory](#)
- 2019 • **Dis-Aleutianed: Where the Wild Winds Blow.**  
[The Xylom](#)
- 2019 • **We're gonna need a bigger boat: Gentle giants return to Channel Islands National Marine Sanctuary.**  
[Office of National Marine Sanctuaries - Webstory](#)



## PROFESSIONAL & RESEARCH EXPERIENCE

- 2022  
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Present • **Marine Scientist – Full Time Equivalent (80hrs/biweekly)**  
Olympic Coast National Marine Sanctuary Port Angeles, WA
  - Facilitate and support moorings operations within Olympic Islands NMS
  - Facilitate and support other sanctuary research initiatives
  - Support sanctuary planning and logistics
  - Technical report writing
  - Data collection, curation, visualization, and database management
  - Creation and curation of Web-enabled Condition Reports
- 2020  
|  
2021 • **Research Operations Specialist – CPC Inc. (40hrs/week)**  
Channel Islands National Marine Sanctuary Santa Barbara, CA
  - Contractor with Channel Islands NMS
  - Facilitated and support research operations for Channel Islands NMS
  - Technical report writing
  - Contributed to the publication of scientific papers
  - Data collection, curation, and database management
  - Creation and curation of Web-enabled Condition Reports
- 2019  
|  
2020 • **California Sea Grant State Fellow (40hrs/week)**  
Channel Islands National Marine Sanctuary Santa Barbara, CA
  - Post-graduate agency fellow with Channel Islands NMS
  - Supported Sanctuary outreach and education
  - Supported and facilitate the Sanctuary Advisory Council
  - Preliminary drafting of sanctuary management plans
- 2018  
|  
2018 • **Graduate Research Assistant (20hrs/week)**  
San Diego State University San Diego, CA
  - Contributed to the analysis of data collected from an NSF supported grant
  - Contributed to the publication of an NSF-supported study
- 2015  
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2018 • **Graduate Teaching Assistant (20hrs/week)**  
San Diego State University San Diego, CA
  - Provided instruction to undergraduate science majors
  - Wrote, administered, and graded exams and coursework

2014  
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2015

- **NOAA Catch-Share Fishery Observer (40hrs+/week)**  
Alaskan Observers Inc. 📍 Santa Cruz, CA
  - Westcoast Groundfish Fishery Observer
  - Identified, counted, and enumerated bycatch *at sea* on commercial fishing vessels
  - Monitored dockside offload of retained fishes



## PROFESSIONAL INTERNSHIPS

2015

- **National Park Service Intern**  
Our World Underwater Scholarship Society® 📍 Nation-wide, USA
  - Participated on research projects across the National Park Service system
  - Served as a liaison between the public and Park Service staff

2014

- **Kelp Forest Restoration Intern (30hrs/week)**  
The Bay Foundation 📍 Palos Verdes, CA
  - Supported a NOAA/NMFS-funded kelp restoration project
  - Conducted gonadosomatic index dissections
  - Participated on urchin-culling SCUBA dives



## TEACHING EXPERIENCE

2015-  
2018

- **Principles of Organismal Biology - Lab.**  
Instructor for organismal / evolutionary biology lab 📍 San Diego, CA
  - Wrote and administered lectures
  - Provided instructional support for laboratory assignments
  - Wrote, administered, and graded quizzes and exams

2011  
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2012

- **Tutor / supplemental educational support**  
Tutor for UCSC Modified Supplemental Instruction 📍 Santa Cruz, CA
  - Provided one-on-one and group tutoring sessions for upper division Ecology and Biology of Reefs, Mangroves, and Seagrasses courses
  - Worked with professors to tailor tutoring sessions to student's needs



## FELLOWSHIPS AND AWARDS

2019  
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2020

- **California Sea Grant State Fellowship.**  
Post-graduate agency management and policy fellowship

2015  
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2018

- **San Diego State University graduate fellowships (various, internal)**  
Graduate research support

2016

- **The Meyers Trust Grant**  
Graduate research support

2016

- **The Explorers Club Young Explorers Grant**  
Graduate research support

- 2016 ● **ACE Maritime University (United States Fellow)**  
One of six graduate students selected to represent the United States on an international, interdisciplinary research cruise



## PROFESSIONAL PRESENTATIONS

- 2021 ● **Hello darkness: red algal patch dynamics on temperate rocky reefs.**  
**Spector M.**, McHugh T., Edwards M.  
Phycological Society of America – Oral presentation
- 2020 ● **Return of the King: what can acoustic telemetry tell us about the recovery of giant sea bass (*Stereolepis gigas*).**  
**Spector M.**, Caldwell, C., Clevens, A., Cajandig, M., Peavey-Reeves, L., Freedman, R.  
Western Society of Naturalists – Oral presentation
- 2018 ● **Does canopy matter? Characterizing patterns of net community production across the Aleutian Archipelago.**  
**Spector M.**, Edwards M., Konar B., Gabara S., Sullaway G., Kim J., McHugh T., Small S.  
Alaska Marine Science Symposium – Poster presentation
- 2018 ● **Speaking for the understory: quantifying the loss of benthic production in kelp forests.**  
**Spector M.**, Edwards M.  
Western Society of Naturalists – Oral presentation
- 2017 ● **Characterizing how the loss of canopy forming algae affects patterns of diversity and net community production on temperate rocky reefs.**  
**Spector M.**, Edwards M.  
Western Society of Naturalists – Oral presentation
- 2016 ● **Differences in seawater dissolved oxygen on rocky reefs.**  
**Spector M.**, Edwards M.  
Western Society of Naturalists – Contributed poster
- 2016 ● **2015 National Park Service internship in review. Our World Underwater Scholarship Society®**  
**Spector M.**, Saldaña P.  
Our World Underwater Scholarship Society® – Oral presentation
- 2015 ● **Nine parks in three months - 100 days before the arrowhead.**  
**Spector M.**, Conlin D, Seymour B.  
Western Society of Naturalists – Poster presentation

- 2012 ● **Sand scour affects the distribution of subtidal barnacle on rocky reefs at Hopkins Marine Station.**  
**Spector M.**, Hoban M.  
 UC Santa Cruz Undergraduate Student Symposium Presentation – Poster presentation
- 2011 ● **Chemosensory perception in common cuttlefish (*Sepia officinalis*) in a Mediterranean seagrass meadow.**  
**Spector M.**, Peeples T.  
 UC Santa Cruz Undergraduate Student Symposium Presentation – Poster presentation



## MEMBERSHIPS AND ASSOCIATIONS

- 2022  
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 Present ● **Surfider Foundation**  
 Olympic Peninsula Chapter  
 • Member
- 2017  
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 2018 ● **Project *Pegasus***  
 San Diego State University  
 • Founder/creator, project lead  
 • Lead a team of high school interns in the construction of a remotely operated vehicle (ROV)  
 • Served as a mentor, guided professional development
- 2015  
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 2018 ● **Marine Ecology and Biology Student Association (MEBSA)**  
 San Diego State University  
 • Seminar series coordinator (2016 – 2018)  
 • Outreach and education
- 2017  
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 2018 ● **The Natural History Club**  
 San Diego State University  
 • Secretary  
 • Outreach and education
- 2017  
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 2018 ● **Smartfin® Surfrider Foundation**  
 San Diego Chapter  
 • Outreach and education
- 2015  
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 Present ● **The Explorers Club**  
 New York, NY  
 • Member