

MICHAEL “PIKE” SPECTOR

Marine Scientist - NOAA Olympic Coast National Marine Sanctuary

EDUCATION

- 2015
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2018
- **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*

 - **University of California Santa Cruz**
B.S. in Marine Biology 📍 Santa Cruz, California

Thesis: *Sand scour affects the distribution of subtidal barnacle on rocky reefs at Hopkins Marine Station*

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.^a, Clevenstine A.^a, Caldow C., Cajandig M., Duncan, L., Peavy-Reeves L., and Freedman R.

^aBoth authors contributed equally to this paper

 - **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.

 - **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

 - **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
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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
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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
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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
- 2013
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2014

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
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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
|
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., Caldow, C., Clevensline, 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
|
Present ● **The Explorers Club**
New York, NY
• Member