

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*

2008
|
2012

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

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>

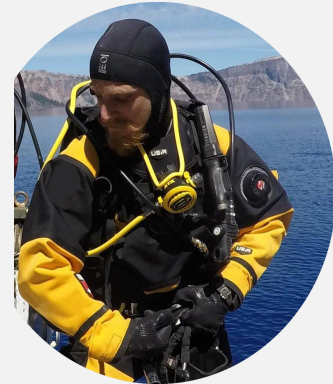
Spector M. and M Edwards

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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🔗 [Personal website](#)

🐦 [Baron von Urchin](#)

🔗 github.com/mspector13

☎ +1 747.224.1395

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; R; Markdown (YAML); 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

2023

| Present

- **Biodiversity Program Manager (80hrs/biweekly)**
California Ocean Protection Council 📍 Sacramento, CA
 - Policy Development and Analysis
 - Contract and Grant Management
 - Facilitation of and participation in interagency government working group
 - Engage with agency leadership and external partners
 - Serve as staff expert on issues related to coastal and marine issues

2022

| 2023

- **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
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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
 - Participated on urchin-culling SCUBA dives
 - Conducted gonadosomatic index dissections

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
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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., 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 | Present ● **SORTEE**
Society for Open, Reliable, and Transparent Ecology and Evolutionary Biology
 - Education and Outreach Committee member
 - Webinar Series Co-Coordinator
- 2022 | 2023 ● **Surfider Foundation**
Olympic Peninsula Chapter
 - Member
- 2017 | 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 | 2018 ● **Marine Ecology and Biology Student Association (MEBSA)**
San Diego State University
 - Seminar series coordinator (2016 – 2018)
 - Outreach and education
- 2017 | 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