

Darien Satterfield

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EDUCATION

University of California, Davis
PhD, Marine Biology

Present

California State University, Long Beach
Master of Science, Marine Biology

August 2019

California State University, Northridge
Bachelor of Science, Marine Biology

May 2015

RESEARCH / PROFESSIONAL INTERESTS

- Fisheries ecology and biomechanics
- Biological and socioeconomic modelling
- Ichthyology
- Statistics

PUBLICATIONS

Satterfield, D. R., Johnson, D. W. (2020). Local adaptation of antipredator behaviors in populations of a temperate reef fish, *Embiotoca jacksoni*. *Oecologia*.
doi.org/10.1007/s00442-020-04757-y

Johnson, D. W., Stirling, B., Paz, J. & Satterfield, D. R. (2019). Geographic variation in demography of black surfperch (*Embiotoca jacksoni*): Effects of density, food availability, predation, and fishing. *Journal of Experimental Marine Biology and Ecology*. doi.org/10.1016/j.jembe.2019.04.008

Satterfield, D. R., Steele, M. A. (2019). Effects of size and sex on the courting success and foraging behavior of *Embiotoca jacksoni*. *Journal of Fish Biology*. doi.org/10.1111/jfb.13981

PROFESSIONAL PRESENTATIONS

Satterfield, D. R., Johnson, D. W. (2018). Evaluating the repeatability of behavioral tendencies of black surfperch (*Embiotoca jacksoni*). Presented at Southern California Academy of Sciences, Glendale, CA.

Satterfield, D. R., Johnson, D. W. (2018). Heritability of behavioral tendencies of black surfperch (*Embiotoca jacksoni*). Presented at Southern California Academy of Sciences, Glendale, CA.

RESEARCH EXPERIENCE

Doctoral Dissertation

August 2019-Present

Mapping the diversity of reef fish swimming behaviors and identifying drivers of diversity

- Research design, data collection and processing

Scientific Diving and Field Assistant

May 2019- August 2019

AAUS scientific diving for the Cal. State Univ. Long Beach Shark Lab.

- Diving and field work to clean data buoys, download data from loggers, replace data loggers

Master's Thesis

August 2016-August 2019

*Predator driven behavioral adaptation and metabolic response in the black surferperch, *Embiotoca jacksoni**

- Research design and facilitation including data collection and analysis, lead AAUS diver for project, boat operations, leadership of volunteer involvement

Lead Field and Lab Assistant

August 2015-August 2016

Bay Pipefish Abundance, Distribution, and Ecological Function in Southern California Seagrass Beds

- Assisted graduate research, including 100hrs of diving and field work, 300hrs of lab work/data processing, leadership of volunteers

CSU Catalina Island Semester Independent Research

August 2014-December 2015

*Effects of Size and Sex on the Courting Success and Foraging Behavior of *Embiotoca jacksoni**

- Research done during a semester spent at USC Wrigley Marine Science Station on Catalina Island
- Research design, 25hrs data collection on snorkel, data processing and analysis

TEACHING EXPERIENCE

Teaching Associate

August 2020-Present

Biological Sciences 2B – Introduction to Biology

Ecology and Evolution

University of California, Davis

Invited Guest Lecturer

October 2018

Common statistical approaches for comparing observed data with expectations

Dr. Darren Johnson's Biostatistics course at California State University, Long Beach

Teaching Associate

August 2016-September 2019

Biology 260L – Biostatistics

Biological Sciences

California State University, Long Beach

Teaching Associate

Spring 2016

Biology 153L – Marine Biology

Biological Sciences

California State University, Long Beach

MENTORSHIP AND SERVICE

Ecology and Evolution Grad School Preview

June 2020-August 2020

Mentor

- This program covers topics related to graduate school in ecology and evolution with the purpose of increasing diversity within these fields. Mentors lead information sessions related to graduate school and participants are also paired with graduate student mentors who additional personalized guidance through searching for and applying to grad schools.

UCD Coastal and Marine Sci. Inst. Grad. Student Affairs Committee

August 2020-Present

Member of Professional Development Subcommittee

- This committee represents the graduate student community of the UCD Coastal and Marine Science Institute and Bodega Marine Lab. My role is to host events and provide resources to aid in the professional development of current graduate students.

UCD Population Biology Graduate Group Curriculum Committee

August 2020-August 2021

Student Representative

- This committee is responsible for maintaining and updating the required curriculum for the population biology doctoral degree program. I am the student representative and am responsible for seeing to the concerns and needs of graduate students in the program as they go through the required courses.

CSULB Graduate Student Biology Society

December 2017-August 2019

Vice President

- This society is a place of community and representation for graduate students in biological sciences at CSULB. My position involved leading members and hosting events, coordinating guest speakers, fundraising, assisting fellow grad students navigate grad school.

PAID EXPERIENCE

Graduate Assistant

January 2016-September 2019

Marine Lab
Biological Sciences
California State University, Long Beach

Substitute Teacher: Biology, Chemistry, Physics, Math

August 2016-August 2017

California Substitute Teaching Credential
William S. Hart Union High School District, Santa Clarita, CA

Receiving and Acclimation Specialist

December 2015-December 2016

Sea Dwelling Creatures, INC.
(310) 676-9697
Animal husbandry, customer service and sales, public outreach

VOLUNTEER EXPERIENCE

Undergraduate Volunteer Research

August 2012-December 2015

Assisted graduate students with data collection and processing on the following studies

- Growth and metabolism of Blacktip reef shark pups
- Physiological responses of crustose coralline algae to ocean acidification

Volunteer Lab Assistant

December 2014

Green Abalone Restoration Project

- Abalone Tagging and Release

California Wildlife Center Animal Husbandry and Rehabilitation Intern

Summer 2012

- Animal emergency care and wildlife husbandry
- Public outreach and volunteer coordinator

Canyon Lake, CA Kayak Clean-Up Leader

2017-Present

- I started this group to clean-up trash in the remote parts of Canyon Lake inaccessible by foot
- Monthly community clean-ups via kayak or canoe

TECHNOLOGICAL PROFICIENCIES

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| • R, basic statistical modeling | • Adobe |
| • Microsoft Office | • ImageJ |
| • Ethovision | • Systat |
| • J-Watcher | |

CERTIFICATIONS

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|---|--------------------------------------|
| • AAUS Scientific Diver | • Motorboat Operator Training Course |
| • CPR, First Aid, O2 | • Boat US Boating Safety |
| • PADI Open Water, Advanced, Rescue Diver | |

GRANTS

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| • Center for Population Biology
Graduate Student Affiliate Funding
Award (July 2020) | • International Women's Fishing
Association Student Research Grant
(May 2018) |
| • UC Davis Population Biology Graduate
Group Student Fellowship (2019) | • Western Society of Naturalists Student
Travel Award (November 2018) |
| • Donald J. Reish Marine Biology Research
Grant (May 2018) | • Southern California Academy of
Sciences Student Research Grant (May
2017) |
| • So Cal Tuna Club Student Research Grant
(May 2018) | • CSU Catalina Island Semester
Scholarship (August 2014) |

AWARDS FOR DATA ANALYSIS AND GRAPHICS

- San Francisco Bay Data Exploration Challenge Winner – San Francisco Estuary Institute

- CA Election 2020 Data Challenge Winner – UC Davis, Data Lab

PROFESSIONAL AFFILIATIONS

American Academy of Underwater Sciences (AAUS)
American Fisheries Society (AFS)
American Institute of Fishery Research Biologist (AIFRB)
Southern California Academy of Sciences (SCAS)
Sigma Xi Scientific Research Honor Society ($\Sigma\Xi$)
Western Society of Naturalists (WSN)
Women Divers Hall of Fame (WDHF)

REFERENCES

Dr. Peter Wainwright

University of California, Davis
Email: Pcwainwright@UCDAVIS.edu

Dr. Darren Johnson

California State University, Long Beach
Email: Darren.Johnson@CSULB.edu

Dr. Mark Steele

California State University, Northridge
Email: Mark.Steele@CSUN.edu