

LEVI S. LEWIS

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OVERVIEW

I am a general ecologist who integrates field observations and special studies to examine temporal and spatial variation in natural communities, species interactions, life history and functional traits, and ecosystem dynamics. I have worked in a variety of ecosystems (salt marshes, rocky intertidal, coral reefs, seagrass beds, kelp forests) and am broadly trained in conservation, invertebrate zoology, ichthyology, phycology, mammology, ornithology, survey methods, and experimental design and statistics. I am well-versed in multivariate statistics, modeling, and the use of R as a research and teaching tool, and I enjoy and excel in leading research teams, mentoring students and colleagues, and communicating science in formal (e.g., laboratory and lecture courses at SDSU and UCSD) and informal (e.g., Ocean Discovery Institute, Science Uncorked) settings. My personal background and experiences in science and management have enhanced my ability to teach, mentor, and inspire audiences of many different backgrounds, and I have actively sought and created many opportunities to do so. Given my interests and experiences, I believe I will enjoy and thrive in a career in research, education, conservation, and natural resource management.

PROFESSIONAL PREPARATION

2016	PhD	Scripps Inst. of Oceanography, UCSD	Oceanography (Biological)
2009	MS	San Diego State University	Biology (Marine Ecology)
2002	BS	University of California, Davis	Wildlife, Fish, & Conservation Biology

APPOINTMENTS

2018-present	Sea Grant (DSF) Postdoctoral Fellow, Wildlife, Fish & Cons. Biology, UC Davis
2016-2017	Postdoctoral Scholar, Wildlife Fish, & Conservation Biology, UC Davis
2016-2016	Lecture Instructor, BILD3- Biology, Ecology, Evolution, UCSD
2016-2016	Laboratory Instructor/Lecture TA, Phycology, Scripps Institution of Oceanography, UCSD
2009-2016	Doctoral Fellow (NSF, NRC-Ford, & SD), Scripps Institution of Oceanography
2015-2015	Lecture Instructor: Marine Invertebrate Zoology, Academic Connections, UCSD
2009-2009	Research Associate, Center for ICP Mass Spectrometry, UC Davis
2005-2009	Graduate Researcher, Dept. of Biology, San Diego State University
2007-2008	Laboratory Instructor, Zoology, San Diego State University
2005-2006	Laboratory Instructor, Biology, San Diego State University
2003-2005	Post-graduate Researcher, Bodega Marine Laboratory, UC Davis
2002-2003	Student Biologist, U.S. Fish and Wildlife Service, Sacramento

HONORS AND AWARDS

Major Research Grants & Fellowships

2018	Postdoctoral Fellowship - Delta Science Postdoctoral Fellowship (\$205,000)
2017	Research Grant – CA Prop 1 Water Bond Grant, co-author (\$604,792)
2015	Doctoral Fellowship –SIO, Ford Dissertation Year Fellowship (\$25,000)
2013	Research Grant – SIO, NSF–IGERT, Ecology and Health of Maldivian Coral Reefs, co–author (\$11,800)
2012	Equipment Grant – SIO, NSF–IGERT, CMBC Media Center Development, co–author (\$9,000)
2012	Doctoral Fellowship – SIO, NSF–IGERT Fellowship (\$42,000)
2011	Doctoral Fellowship – SIO, NRC Ford Foundation Fellowship (NRC) (\$63,000)
2011	Research Grant – SIO, NSF–IGERT, Interdisciplinary Student Project, co–author, (\$15,000)
2009	Doctoral Scholarship – UCSD Center for Marine Biodiversity & Conservation (\$17,000)
2009	Doctoral Fellowship – SIO, San Diego Fellowship (\$50,000)
2009	Doctoral Fellowship – SIO, AGEP (\$36,000, declined)
2009	Doctoral Fellowship – Florida State University McKnight (\$32,000, declined)

- 2008 Research Grant – San Diego State University, Port of San Diego, MS research, co-author (\$35,000)
2007 Research Grant – San Diego State University, Port of San Diego, MS research (\$10,000)

Select Minor Scholarships & Honors

- 2015 Golden Key Honor Society
2014 Doctoral Scholarship – UCSD, Brython P Davis Award, Academic Scholarship (\$4,200)
2012 Research Grant – UCSD, Mia Tegner Award, Dissertation Research, Maui, HI (\$1,500)
2011 Doctoral Scholarship – UCSD, Brython P Davis Award, Academic Scholarship (\$4,200)
2011 Research Grant – UCSD, SciFund, crowd-sourced funding opportunity for science (\$1,815)
2011 Research Grant – UCSD, Edna Bailey Sussman Foundation, HI DWR partnership & research (\$5,000)
2011 Research Grant – UCSD, PADI Foundation, Dissertation Research, Maui, HI (\$3,000)
2008 Honor Society of Phi Kappa Phi
2008 Best Poster – Western Society of Naturalists (\$100)
2008 Deans Award – SDSU Research Symposium (\$250)
2006 Master's Scholarship – SDSU, Mabel Myers Memorial (\$1,000)
2006 Research Grant – SDSU, PADI Foundation, MS Research (\$5,000)
2006 Research Grant – SDSU, Southern CA Academy of Sciences, MS Research (\$1,000)

PUBLICATIONS

In Review

- Hobbs JA, LS Lewis, M Willmes, C Denney, and E Bush. *In review*. Newly discovered life history diversity in a critically-endangered fish. *Nature Scientific Reports*.
Carter, AL, CB Edwards, Y Eynaud, MD Fox, MD Johnson, **LS Lewis**, CG Amir, SA Sandin, and JE Smith. *In review*. Variability in the spatial and temporal dynamics of an invasive corallimorph, *Rhodactis howesii*, at Palmyra Atoll. *Coral Reefs*.

Published

- Lewis, LS**, M Willmes, A Barros, P Crain, J Hobbs. *Accepted*. Newly discovered spawning and recruitment of threatened Longfin Smelt in restored and under-explored tidal wetlands. *Ecology*.
Lewis, LS and JE Smith. *Accepted*. Functional diversity among herbivorous sea urchins on a coral reef: grazing rate, dietary preference, and metabolism. *Marine Ecology Progress Series*.
Willmes M, Ransom KM, **Lewis LS**, Denney CT, Glessner JGG, Hobbs JA. 2018. IsoFishR: An application for reproducible data reduction and analysis of strontium isotope ratios (⁸⁷Sr/⁸⁶Sr) obtained via laser-ablation MC-ICP-MS. *PLoS ONE* 13(9): e0204519. <https://doi.org/10.1371/journal.pone.0204519>
Lewis LS, Smith JE, Eynaud Y. 2018. Comparative metabolic ecology of tropical herbivorous echinoids on a coral reef. *PLoS ONE* 13(1): e0190470. <https://doi.org/10.1371/journal.pone.0190470>
Willmes, M., J. A. Hobbs, A. M. Sturrock, Z. Bess, **LS Lewis**, J. J. G. Glessner, R. C. Johnson, R. Kurth, and J. Kindopp. 2018. Fishery collapse, recovery, and the cryptic decline of wild salmon on a major California river. *Canadian Journal of Fisheries and Aquatic Sciences*. <https://doi.org/10.1139/cjfas-2017-0273>
Nakajima R., H Yamazaki, **LS Lewis**, A Khen, JE Smith, N Nakatomi, H Kurihara. 2017. Planktonic trophic structure in a coral reef ecosystem – Grazing versus microbial food webs and the production of mesozooplankton. *Progress in Oceanography* 156:104–120. <https://doi.org/10.1016/j.pocean.2017.06.007>
Smith, JE, PS Vroom, D Obura, A Carter, JL Harris, **LS Lewis**, S Dugas, C Edwards, E Sala, S Sandin, R Brainard. 2016. Re-evaluating the health of coral reef communities: baselines and evidence for human impacts across the central Pacific. *Proc. R. Soc. B*. 283: 20151985. <http://dx.doi.org/10.1098/rspb.2015.1985>
Harris, JL, **LS Lewis**, JE Smith. 2015. Quantifying scales of spatial variability in algal turf communities on coral reefs. *Marine Ecology Progress Series*. 532 : 41-57. <https://doi.org/10.3354/meps11344>
Lewis, LS and Anderson, TW. 2012. Top-down control of epifauna by fishes enhances seagrass production. *Ecology* 93(12): 2746-2757. <https://doi.org/10.1890/12-0038.1>
Hobbs, JA, **Lewis, LS**, Ikemiyagi, N, Sommer, T and Baxter, R. 2010. The use of otolith strontium isotopes to identify critical nursery habitat for a threatened estuarine fish. *Environmental Biology of Fishes*. 89:557–569. <https://doi.org/10.1007/s10641-010-9672-3>
Farlin, JA, **Lewis, LS**, Anderson, TW, and Lai, C. 2010. Functional diversity in amphipods revealed by stable isotopes in an eelgrass ecosystem. *Marine Ecology Progress Series*. 420: 277–281. <https://doi.org/10.3354/meps08873>

McGourty, CR, Hobbs, JA, Bennett, WA, Green, PG, Hwang, H, Ikemiyagi, N, **Lewis, LS** and Cope, JM. 2009. Likely population-level effects of contaminants on a resident estuarine fish species: Comparing *Gillichthys mirabilis* population static measurements and vital rates in San Francisco and Tomales Bays. *Estuaries and Coasts*. 32(6): 1111-1120. <https://doi.org/10.1007/s12237-009-9177-5>

Theses and Reports

Lewis, LS, Malte Willmes, Christian Denney, Christina Parker, Micah Bisson, Arthur Barros, James Hobbs. 2018. Interdisciplinary Studies on Longfin Smelt in the San Francisco Bay Estuary. Report to the California Department of Water Resources, Contract No. 4600011196, 44 pp.

Lewis, LS and James Hobbs. 2017. Environmental drivers of fish abundance in the Alviso Marsh Complex 2010-2016. Report to the San Francisco Estuary Institute, Subcontract No: 1276. 47 pp.

Lewis, LS, James Hobbs, Jon Cook and Pat Crain. 2017. Community Structure of Fishes and Invertebrates in the Alviso Marsh Complex 2014-2016. Report to the San Jose-Santa Clara Regional Wastewater Facility. 35 pp.

Lewis, LS, James Hobbs, Malte Willmes, and James Chhor. 2017. Growth of Longfin Smelt: putting extreme drought into a long-term context. Report to the California Department of Fish and Wildlife, Contract No. D1583004. 31 pp.

Lewis, LS. 2016. Consumers on coral reefs: variation in the structure and function of herbivorous echinoid communities and their consequent effects on benthic dynamics. Doctoral Dissertation. Scripps Institution of Oceanography, UC San Diego. 236 pp.

Lewis, LS. 2009. Microcarnivorous fishes limit epifaunal abundance and enhance seagrass production. Master's Thesis. San Diego State University. 52 pp.

TEACHING EXPERIENCE

Lecture and Laboratory Instruction

2016 Associate Instructor—BILD3: Ecology and Evolutionary Biology, UCSD

2016 Laboratory Instructor/TA—SIO 183: Phycology—the study of marine plants, UCSD

2015 Training—Center for Teaching Excellence (CET), "The College Classroom", UCSD

2015 Course Instructor—Marine Invertebrate Zoology, Academic Connections, UCSD.

2013 Lecture —*Coral reef ecology* (Maldives National University, Male, Republic of the Maldives)

2013 Lecture & Lab—*Biology and ecology of seagrass and mangrove ecosystems* (SIO, Dr. Smith, Phycology)

2012 Organizer —*Teaching English Through Science Symposium II*, American Language Program, CSU, Fullerton.

2012 Lecture —*Intro. to Marine Science and SIO* (American Language Program, CSU Fullerton, Prof. Azimi)

2012. Lecture — *Ecology and why it matters* (American Language Program, CSU Fullerton, Prof. Azimi)

2012 Organizer —*Teaching English Through Science Symposium I*, American Language Program, CSU, Fullerton.

2012 Lecture —*Intro. to Marine Science and SIO* (American Language Program, CSU Fullerton, Prof. Azimi)

2012 Lecture —*Trophic Dynamics* (American Language Program, CSU Fullerton, Prof. Azimi)

2008 Course Manager —Zoology Lab.(3 instructors, 12 classes), advised instructors on lectures and exercises.

2007 Laboratory Instructor — Zoology, (4 classes), gave weekly lectures and led laboratory exercises, SDSU

2006 Laboratory Instructor — Intro. Biology, (5 classes), gave weekly lectures and led laboratory exercises, SDSU

2005 Laboratory Instructor — Intro. Biology, (4 Classes), gave weekly lectures and led laboratory exercises, SDSU

Mentorship

Year	Name	Level	School	Current Position
2018-2019	Jamie Sweeny*	MS	UCD	MS Student, UCD
2018-2019	Christina Parker*	MS	OSU	MS Student, OSU
2018-2019	Arthur Barros*	MS	UCD	MS Student, UCD
2018-2019	Sabah UI Hassan*	DR	UCM	Postdoctoral Fellow, Scripps Research Institute
2014-2019	Adi Khen*	PG-DR	SIO	NSF-GRFP Fellow, PhD student, SIO
2012-2019	Abigail Cannon*	PG-DR	SIO	NSF-GRFP Fellow, PhD student, SIO
2016	Josh Francois	DR	UCSD	Ford Foundation Doctoral Fellow, UCSD
2015	Nathalie Staiger*	PG	SIO	MS Student, U. Mass, Dartmouth
2014	Mallory Morgan	MS	SIO	Climate Specialist, San Diego Foundation
2013-2014	Samantha Clements*	MS	SIO	Staff Research Assistant, SIO
2013-2014	Amanda Carter*	MS	SIO	PhD, Knauss Policy Fellow, Washington DC
2014	Alec Scott*	PG	SIO	MS, UNC, Wilmington

2014	Temur Imam	UG	SIO	Undergraduate Researcher, US Fish and Wildlife
2014	Jennifer Lee	UG	SIO	NSF-GRFP Fellow, PhD student, SIO
2011-2012	Niko Kaplanis	UG	SIO	Undergraduate Researcher, SIO
2007-2009	James Farlin*	UG	SDSU	PhD Student, UC Davis
2006-2007	Victoria Norrell	UG	SDSU	MS-Alaska Pacific U., PhD student-Brannon University
2006-2007	Laura Foley	UG	SDSU	PhD, UNC Wilmington
2006	Leah Segui	UG	SDSU	PhD, NSF-GRFP Fellow, PhD student, OSU

UG-undergrad, PG-postgrad, MS-masters, DR-doctoral; SIO-Scripps Inst. Oceanog., SDSU-San Diego State U.
 *Co-authored manuscript published or in prep

BROADENING PARTICIPATION IN STEM

- 2018 Contributed as a marine invertebrate educator and conference volunteer at the “Tléix’ Yaakw — One Canoe” Conference at the University of Alaska Southeast, bringing native peoples (Hawaiians and Alaskans) together with Western scientists to learn about and celebrate the science and culture of the ocean using modern and traditional knowledge structures.
- 2015-2016 Worked/negotiated with students, staff, and administrators to develop a job description, justification, and plan for the hiring of a Diversity Initiatives Coordinator at SIO (hired on 9/13/2016).
- 2009-2014 Helped organize and run the Team for Inclusion and Diversity in Education and Science (TIDES), SIO.
- 2010-2014 4x student science judge at annual Greater San Diego Science and Engineering Fair, San Diego, CA.
- 2014 Mentored URM science students at SACNAS diversity science conference, Los Angeles, CA.
- 2014 Organized and led a campus-wide Celebration of Culture at SIO.
- 2014 Organized and led a campus-wide Forum on Diversity in academia and at SIO.
- 2013 Participant in joint cultural-scientific cruise to the Northwestern Hawaiian Islands, NOAA.
- 2013 Organized and led “Teaching English Through Science II” symposium, American Language Program, CSUF.
- 2012 Participant in joint cultural-scientific cruise to the Northwestern Hawaiian Islands, NOAA.
- 2012 Panel member for NRC Ford Grad Fellowships Forum for URM students at UCSD.
- 2012 Organized and led “Teaching English Through Science I” symposium, American Language Program, CSUF.
- 2012 Panel member for the McNair fellow graduate recruitment forum at UCSD.
- 2012 Mentored URM students at Lincoln High School Career Fair.
- 2011 Participant in joint cultural-scientific cruise to the Northwestern Hawaiian Islands, NOAA.
- 2010 Organized and presented a lecture at the SIO Community Forum on Diversity.
- 2010 Visited Compton High School to establish a science program at SIO for URM students.
- 2010 Mentored URM science students at the 2010 UC Edge conference, UCLA.

RESEARCH

Multi-year Projects

- 2016-present UC Davis. (a) Performing statistical analysis and modeling (in R) of habitat suitability for endangered species based on long-term survey datasets. (b) Conducting interdisciplinary studies of age and life-history traits of endangered species using otolith microstructure and isotope geochemistry techniques. (c) Completing multivariate assessments of community structure of fishes and invertebrates in 5 different marsh ecosystems throughout the San Francisco Bay Estuary.
- 2011-2016 UC San Diego. Organized and led a 36-mo. manipulative field experiment on benthic succession and trophic interactions using settlement tiles in Maui, HI. Required over 20 field excursions, collaborations with the Maui Division of Aquatic Resources and Maui Aquarium. Field work consisted of over 100 scientific dives and continuous site visits by scuba and snorkel for data collection, and design and construction of temporary laboratory facilities for metabolic assays.
- 2011-2014 UC San Diego. NSF-IGERT funded interdisciplinary study of human perceptions of conservation success
- 2011-2013 UC San Diego. Organized and led a 24-mo. manipulative field experiment on trophic dynamics on a coral reef in Maui, HI (10 trips, > 200 sci. dives)
- 2011-2013 University of Hawaii/NOAA. Served as lead phycologist in 3 annual joint cultural-scientific research cruises to the Northwestern Hawaiian Islands, NOAA.
- 2006-2014 SDSU. Assisted with scuba-based research projects in kelp forests on Catalina Island and seagrass beds in coastal San Diego, CA.
- 2006-2008 SDSU. Organized and led multipole manipulative field experiments on trophic cascades in local seagrass beds.

2003-2005 UC Davis. Organized and led field surveys and experiments in local salt marsh ecosystems and conducted otolith microstructure analyses for the ichthyology group of the Pacific Estuarine Indicator Research (PEEIR) consortium, Bodega Marine Lab, CA.

Short-term Projects

2013 UC San Diego. Scuba-based research projects on coral health in the Maldives (planned, funded, executed).
2010 UC San Diego. Participated in the 2010 Northern Line Islands Cruise, SIO.
2010 UC San Diego. Ecological scuba-based research in coral reefs, Maui, HI.
2009 UC Davis. Chemical analysis of otoliths and data processing for the ICP-MS Fish Ecology Lab, UC Davis.

PROFESSIONAL AND ACADEMIC SERVICE

2016 Journal Reviewer - Public Library of Science (PLOS) One
2015 Journal Reviewer – Marine Ecology
2014 Mentored minority undergraduates in STEM at SACNAS science conference, Los Angeles
2014 Active Member - SIO diversity in academia working group, UCSD
2014 Journal Reviewer - Coral Reefs
2014 Science Judge – Greater San Diego Science and Engineering Fair
2013 Journal Reviewer - Coral Reefs
2013 Active Member - SIO diversity in academia working group, UCSD
2013 Journal Reviewer - Oecologia
2012 Journal Reviewer - Limnology and Oceanography (unofficial)
2012 Active Member - SIO diversity in academia working group, UCSD
2012 Mentored minority undergraduates in STEM at the UC Edge diversity in science research conference, UCLA
2012 Mentored minority students in STEM at the McNair Fellow Graduate Recruitment Forum, UCSD
2012 Science Judge – Greater San Diego Science and Engineering Fair
2012 Mentored minority graduate students in STEM at the Ford Fellowship advisory panel, UCSD
2012 Fisheries biologist/educator at the San Diego Sustainable Seafood Gala, Oceans Foundation
2012 Executive committee - American Fisheries Society Cal-Neva chapter (2012).
2012 Student Committee – Western Society of Naturalists
2011 Active Member - SIO diversity in academia working group.
2011 Science Judge – Greater San Diego Science and Engineering Fair
2011 Student Committee – Western Society of Naturalists
2010 Active Member - SIO diversity in academia working group.
2010 Science Judge – Greater San Diego Science and Engineering Fair
2010 Student Committee – Western Society of Naturalists
2009 Active Member - SIO diversity in academia working group.
2008 Student Rep – SDSU Faculty Selection Committee
2007 Volunteer – Annual meeting of the CalNeva American Fisheries Society
2006 Volunteer – Annual meeting of the Western Society of Naturalists (WSN)
2005 Volunteer – Annual meeting of the Western Society of Naturalists (WSN)

LEADERSHIP

2016-present Leading \$800k study on endangered Longfin Smelt in the San Francisco Bay Estuary, conducted by the Hobbs Lab, UC Davis. Hiring, supervising and mentoring of laboratory assistants, grant management, purchasing, and drafting of reports and manuscripts.
2011-2014 Led 12 research expeditions abroad for research conducted by the Smith Lab, Scripps Institution of Oceanography. Supervised and mentored numerous laboratory and field assistants, conducted purchasing, supervised lab analyses, and drafted reports and manuscripts.
2006-2008 Led extensive field and lab work for seagrass research conducted by the SDSU Fish Ecology Lab. Supervised and mentored numerous laboratory and field assistants, conducted purchasing, supervised lab analyses, and drafted reports and manuscripts.
2012-2016 Funded, established, and maintained the Media Center for the Center for Marine Biodiversity and Conservation, Scripps Institution of Oceanography
2014 Lead Organizer – Scripps Forum on Diversity II, SIO
2014 Lead Organizer – Scripps Cultural Celebration, SI

- 2012 Executive Committee - American Fisheries Society, Cal-Neva Chapter
- 2011 Lead Organizer – Scripps Forum on Diversity I, SIO
- 2008 Course Manager – Zoology Lab, SDSU (3 instructors, 18 classes)
- 2005 Fundraising Chair - Bodega Marine Science Association, BML
- 2004 Fundraising Chair - Bodega Marine Science Association, BML
- 2002 President - Delta Kappa Epsilon international fraternity
- 2001 Treasurer - Delta Kappa Epsilon international fraternity

SYMPOSIA AND PRESENTATIONS

- 2019 North American Workshop on Laser Ablation (NAWLA). Austin, TX. **Poster**. Trace Metals to Trace Movements – reevaluating the Life History of Longfin Smelt.
- 2019 Interagency Ecological Program (IEP) Workshop. Folsom, CA. **Poster**. Trace Metals to Trace Movements – reevaluating the Life History of Longfin Smelt.
- 2019 Institute for Shipboard Education Semester at Sea. MV World Odyssey. San Diego, CA. **Lecture (invited)**. *Ode to Oikos: searching for solutions in seas of uncertainty*
- 2018 Point Blue Conservation Science. Petaluma, CA. **Lecture (invited)**. *Otolith geochemistry to inform fisheries management and conservation*
- 2018 Estuarine and Ocean Science (EOS) Center, San Francisco State University. Tiburon, CA. **Lecture (invited)**. *Fish communities and habitat suitability in marshes of the San Francisco Bay Estuary*
- 2018 Science Uncorked. Bodega Marine Laboratory, UC Davis. **Lecture (invited)**. *Alternative lifestyles of the rare and endangered - how ear bones, lasers, and chemistry could save species and alter California's water wars.*
- 2018 National American Fisheries Society. Atlantic City, NJ. **Lecture (invited)**. *California's endangered estuarine osmerids: life history diversity within a highly-modified and ever-changing environment*
- 2018 Bay-Delta Science Conference. Sacramento, CA. **Lecture (invited)**. *Novel investigations into the distribution, growth, and origins of Longfin Smelt throughout the SFE*
- 2018 Western Division of the American Fisheries Society. Anchorage, AK. **Lecture**. *The Delta's Smelts – demise and discovery among California's estuarine osmerids*
- 2018 Tléix' Yaakw — One Canoe Conference. Juneau, AK. **Invertebrate Instructor & conference volunteer**
- 2018 Interagency Ecological Program (IEP) Workshop. Folsom, CA. **Lecture**. Re-evaluating the Life History of Longfin Smelt
- 2018 Cal-Neva American Fisheries Society. San Luis Obispo, CA. **Lecture**. *The environmental drivers of habitat use by Silicon Valley's estuarine fishes.*
- 2017 Cal-Neva American Fisheries Society. Humboldt, CA. **Lecture**. *Longfin Smelt - Reconstruction of habitat utilization and growth histories via otolith microchemistry*
- 2016 Western Society of Naturalists. Monterrey, CA. **Lecture**. *Comparative metabolic, trophic, and functional ecology of tropical herbivorous echinoids in Maui, Hawaii*
- 2016 International Coral Reef Symposium. Oahu, Hawaii. **Lecture**. *Comparative experiments on 8 nearshore Hawaiian coral reefs: spatial variation in the environmental drivers of reef development.*
- 2016 Maui Makai Watch. Lahaina, Hawaii. **Invited Lecture**. *Fascinating facets of Maui's coral reefs.*
- 2015 Western Society of Naturalists. Sacramento, CA. **Lecture**. *Comparative experiments on 8 nearshore Hawaiian coral reefs: spatial variation in the environmental drivers of reef development*
- 2015 Conference of Ford Fellows. National Academies, Washington D.C. **Lecture**. *Diversity, identity, and the functional ecology of tropical marine herbivores on coral reefs.*
- 2014 Society for the Advancement of Chicanos and Native Americans in Science (SACNAS), Los Angeles, California. **Exhibitor/mentor for underrepresented minority science students.**
- 2014 Third International Marine Conservation Congress (IMCC), Glasgow, Scotland. **Lecture**. *Navigating success in a sea of failure.*
- 2014 Third International Marine Conservation Congress (IMCC), Glasgow, Scotland. **Lecture**. *Using a rapid, multi-dimensional Coral Health Index (C.H.I.) to assess anthropogenic and natural variation in Maldivian coral reefs.*
- 2014 Ecological Society of America (ESA), Sacramento, California. **Lecture**. *Identity trumps diversity in determining the effects of a tropical herbivore community.*
- 2014 Ridge to Reef Science Workshop, Oahu, Hawaii. **Lecture 1. Herbivory. Lecture 2. Water quality, sediments, algae, and reef development/growth.**
- 2013 Maldives National University (MNU), Male, Republic of the Maldives. **Lecture**. *Coral reef ecology – the Maldives and beyond.*
- 2013 Teaching English Through Science Symposium II. California State University, Fullerton. **Lecture**. *Ecology and why it matters. Symposium Organizer.*

- 2012 Western Society of Naturalists (WSN), Monterey, CA. **Poster.** *Biophysical characteristics and the development and growth of coral reefs in Maui, HI.*
- 2012 12th International Coral Reef Symposium (ICRS). Cairns, Queensland, Australia. **Lecture.** *Functional diversity of herbivorous urchins in Maui, HI.*
- 2012 Teaching English Through Science Symposium I. California State University, Northridge. **Lecture.** *Trophic dynamics in marine ecosystems.* **Symposium Organizer.**

MEMBERSHIPS

Golden Key Honor Society
 Phi Beta Phi Honor Society (ΦΒΦ)
 Ford Foundation Fellows (FFF)
 Ecological Society of America (ESA)
 Western Society of Naturalists (WSN), **student committee**
 Society for Conservation Biology (SCB)
 International Society for Reef Studies (ISRS)
 American Fisheries Society (AFS), **Cal-Neva executive committee**
 Delta Kappa Epsilon International Fraternity (DKE), **president & treasurer**
 Team for Inclusion and Diversity in Education and Science (TIDES)
 Bodega marine Science Association (BMSA), **fundraising chair**
 UCSD Ujima Network [diversity in science]

REFERENCES

Dr. James Hobbs	Postdoc Advisor	UC Davis	hobbja@ucdavis.edu
Dr. Jennifer Smith	Ph.D. advisor	SIO-UCSD	jsmith@ucsd.edu
Dr. Jonathan Shurin	Ph.D. committee	SIO-UCSD	jshurin@ucsd.edu
Dr. Todd Anderson	M.S. advisor	SDSU	tanderson@mail.sdsu.edu