

Xochitl S. Clare

University of California, Santa Barbara, Marine Science Institute

EDUCATION

- 2017 - present **University of California, Santa Barbara (UCSB)**
Ph.D. Candidate, Ecology, Evolution & Marine Biology (EEMB)
Advisor: Professor Gretchen Hofmann
- 2012 - 2017 **University of California, Santa Cruz (UCSC)**
Bachelor of Science in Marine Biology
Bachelor of Arts in Theater Arts

FELLOWSHIPS & AWARDS

- 2020 - 2023 National Science Foundation Graduate Research Fellowship Program (NSF-GRFP) (2020 - 2023)
UC President's Pre-Professoriate Fellowship (2022 - 2023)
UCSB Hansma Fellowship Award (2020)
- 2018 - 2019 UCSB EEMB Graduate Department Residual Funds (Spring 2018)
Ford Foundation Fellowships Honorable Mention (2018)
UCSB Bridge to the Doctorate (BD) Fellowship (2017 - Summer 2020)
UCSB EEMB Graduate Fellowship (Summer 2017 - 2018)
- 2015 - 2017 UCSC Kenneth and Ann Thimann Scholarship (2017)
UCSC Dean's Undergraduate Research Award for Senior Thesis: *Energy Densities of Forage Fish from the Mesopelagic Zone of the North Pacific Ocean and Its Implications for a High-Level Marine Predator, the Northern Elephant Seal* (2017)

PROFESSIONAL EXPERIENCE

Research

- 2017 - present **University of California, Santa Barbara, Santa Barbara Coastal Long Term Ecological Research Project, Hofmann Lab: Doctoral Researcher;** Investigating climate change stressors (ocean acidification and warming) on feeding ecology, reproduction, and early life stages of the Kelleys' whelk
- Smithsonian Tropical Research Institute, Collin Lab: Visiting Researcher (2023);** Investigating the impact of fluctuating marine heatwave treatments on adult and larval tropical urchins
- 2016 - 2017 **Scripps Institute of Oceanography (SIO), University of California, San Diego, Deheyn Lab: Visiting Researcher (2016);** *Ocean Acidification (OA) Affects the Nervous System in Marine Invertebrates—The Case of a Luminous Brittlestar*

Research

- 2014 - 2017 **UCSC Institute of Marine Sciences (IMS): Joseph M. Long Marine Laboratory (LML)**
 Palkovacs Lab: Intern; *Local Adaptation in a Shell-drilling Predator*, Dog-whelk Sea Snail Ocean Acidification Experiment (2015 - 2017)
 Costa Lab: Intern; *Elephant Seal Prey-Energy Library* (2014 - 2016)
National Oceanic and Atmospheric Administration (NOAA) Fisheries Santa Cruz Laboratory
 Volunteer; E-Fishing Salmon Population Survey (2014)
 National Marine Fisheries Service (NMFS): Intern; Salmonid Food Web History (2014)

Teaching & Advising

- 2021 - present **University of California, Santa Barbara**
Curriculum Designer for Mentor Training; Field-based Undergraduate Engagement through Research, Teaching, and Education (FUERTE)
Graduate Student Mentor; McNair Scholars Program
 2020 **Writing Consultant**; NSF-GRFP Application Reviewer
 2018 **Teaching Assistant & Reader**; Introduction to Biology Lab, Ecology of Infectious Disease

GRANTS IN SUPPORT OF RESEARCH

- 2020 - 2021 Reef Check Kelp Forest Monitoring Training; 2021 Diversity Scholarship
 Restore America's Estuaries Scholarship for 2020 National Coastal & Estuarine Virtual Summit (\$100)
 Conchologists of America Academic Grant (\$1,700)
- 2019 UCSB Associated Students Coastal Fund (\$13,279)
- 2018 UCSB EEMB Graduate Department Residual Funds (\$1,300)
- 2016 - 2017 Carl Storm Underrepresented Minority (CSURM) Fellowship for 2018 Predator-Prey Interactions GRC (\$600)
 Association for the Sciences of Limnology and Oceanography Multicultural Program (ASLOMP) Award (\$2000)
 UCSC Kresge & Porter College Collaborative Student Project Award: *Rethinking Natural History* (\$1000)

PUBLICATIONS

- 2022 **Clare, X.S., Hofmann, G.E.** *Larval thermal tolerance as a window into the resilience of a wild shellfish fishery to marine heatwaves*, Journal of Shellfish Research (In Revision)
- Clare, X.S., Dillon Whited et al.**, *Length-weight relationship of the kelp forest gastropod and emerging fisheries species Kellet's whelk, Kelletia kelletii*, Journal of Shellfish Research (In Preparation)

PROFESSIONAL ACTIVITIES

Internships & Affiliations

- 2022 - present **OceanX Young Explorers Program (2022):** Led film and media segments on ocean warming experiments, aboard the *OceanXplorer*
- Stanford University Postdoctoral Recruitment Initiative in Sciences and Medicine (PRISM) Program (2022)**
- American Academy of Underwater Sciences (AAUS); UCSB Scientific Diving Program (2018 - present)**

Presentations

- 2020 - 2022 **Founder & Director; UCSB Research Experience & Education Facility (REEF), REEFlections, 2020 - 2022 REEF Undergraduate Research Symposium, Symposium**
- Clare, X.S., Hofmann, G.E. *Turning Up the Heat: Examining the effects of parental temperature environments on the quality of progeny in a fished marine invertebrate.* 2021 Western Society of Naturalists, Oral Presentation**
- Clare, X.S., REEFlections Testimonios: *Exploring undergraduate experiences in navigating virtual scientific storytelling.* 2021 Ecological Society of America Annual Meeting, Oral Presentation**
- Clare, X.S., Hofmann, G.E. *Snails on the menu?: Using long-term ecological data to contextualize performance of a California kelp forest predator and emerging fishery species, *Kelletia kelletii*.* 2020 Western Society of Naturalists, Oral Presentation**
- Clare, X.S., Hofmann, G.E. *Snails on the menu?: Using long-term ecological data to contextualize performance of a California kelp forest predator and emerging fishery species, *Kelletia kelletii*.* 2020 Gulf & Caribbean Fisheries Institute 73rd Annual Meeting, Oral Presentation**
- 2017 - 2019 **SACNAS Graduate Chapter & Bridge to the Doctorate Fellows, *Being Your Authentic Self in Graduate School: Community, Advocacy, and Resilience: Excelling Together.* Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS), Session Leader**
- Founder & Director; UCSB Research Experience & Education Facility (REEF), REEFlections, 2019 REEF Undergraduate Research Symposium, Symposium**
- Clare, X.S., Hofmann, G.E. *Snails on the menu?: Using long-term ecological data to contextualize performance of a California kelp forest predator and emerging fishery species, *Kelletia kelletii*.* 2019 World Congress of Malacology, Oral Presentation**
- Clare, X.S., Hofmann, G.E. *Snails on the menu? Investigating ocean acidification impacts on kelp forest predator, *K. kelletii*.* Long Term Ecological Research All Scientists Meeting, Poster Presentation**
- Clare, X.S., Hofmann, G.E. *Snails on the menu? Investigating ocean acidification impacts on kelp forest predator, *K. kelletii*.* UC Davis, Bodega Marine Laboratory Meeting, Oral Presentation**

Presentations

- 2015 - 2017
- Clare, X.S., Hofmann, G.E.** *Arms race in the Anthropocene: How will juvenile sea hare inking defenses fare in the future?* Gordon Research Conference (GRC) on Predator-Prey Interactions, Poster Presentation
- Clare, X.S., Deheyn, D.D.** *Ocean Acidification Affects the Nervous System in Marine Organisms—The Case of a Luminous Invertebrate.* Association for the Sciences of Limnology and Oceanography (ASLO) Aquatic Sciences Meeting, Poster Presentation
- Clare, X.S., Deheyn, D.D.** *Ocean Acidification Affects the Nervous System in Marine Organisms—The Case of a Luminous Invertebrate.* Western Society of Naturalists (WSN), Poster Presentation
- Clare, X.S., Maresh, J.L., Goetsch, C., Costa, D.P.** *Elephant Seal Prey-Energy Library.* California Alliance for Minority Participation (CAMP) Statewide Symposium, Poster Presentation

Film, Media & Spotlights

- 2022 - present
- Production;** Coastal Media Project (2022), UCSB Department of Film and Media Studies & Carsey-Wolf Center
- Podcast Guest;** “*Intersectional Marine Biology*” Greenhouse Sass (2022)
- Podcast Guest;** “*Intersectionality & Graduate School*” Grad School Femtoring Podcast (2022)
- Performer;** “*Chocolate Baby Storytime*” Guest Marine Biologist (2022), Healing Justice Santa Barbara
- 2021 - 2022
- Sound;** “*Ghosts on the Horizon*” (2021), GreenScreen Environmental Media Production, UCSB Department of Film and Media Studies & Carsey-Wolf Center
- Professional Association of Diving Instructors (PADI) AmbassaDiver;** Women’s Dive Day Organizer, Panels (Diversity & Inclusion in Scuba Diving, International Day of Women & Girls in Science), Instagram & Blog
- UCSB Santa Barbara Coastal Long Term Ecological Research Outreach** (Vimeo, TikTok, Instagram)
- 2019 - 2020
- Black in Marine Science Week;** Social Media Organizer & Instagram Takeover
- Los Padres ForestWatch;** Latinx Conservation Week Live Chat
- UCSB Graduate Division Spotlight;** *GradStories*
- Girls that Scuba, Girls that Freedive;** Instagram Feature
- Sirene Project;** Website Profile, Instagram Feature
- USCB Coastal Fund;** Grantee Website and Facebook Feature
- 2018 - 2019
- Women Doing Science;** Instagram Takeover
- UCSB Graduate Division Spotlights;** Pamphlets & Booklets, Department flyers, Instagram Takeover: *A Day in the Life Of*, USCB Campus Banners, UCSB Home Page Feature: *Voices*
- Women in Ocean Science;** Instagram Profile
- Santa Barbara Museum of Natural History;** Instagram Profile

SERVICE***Academic & Departmental***

- 2021 - present **Speaker;** “*Graduate Studies*”, UCSC Younger Lagoon Reserve Internship Program, Virtual Panel
- Graduate Student Mentor;** UCSB Field-based Undergraduate Engagement through Research, Teaching, and Education (FUERTE), Panels & Seminars
- Seminars;** “*Turning Up the Heat: Climate Science in Action*”, Outreach Santa Barbara County (K-12), UCSB REEF Virtual Seminars
- 2019 - 2020 **Speaker;** “*All-Gaucha Reunion*”, UCSB Research Experience & Education Facility, Virtual Seminar
- Speaker;** “*Green Careers: Graduate Studies*”, UCSC Career Center, Virtual Panel
- Speaker;** “*Graduate School for Environmental Professions*”, UCSB Making Adventures Possible for all Students (MAPAS), Virtual Panel
- Invited Lecturer;** UCSC Center to Advance Mentored, Inquiry-Based Opportunities (CAMINO), Virtual Seminar
- Invited Lecturer;** UCSC Doris Duke Conservation Scholars Program, Virtual Seminar
- Commencement Speaker;** UCSC STEM Diversity Program Virtual Commencement Ceremony
- Seminar Speaker;** UCSB “*Thriving, Not Surviving: Navigating Higher Education as a First-Generation College Student*” Virtual Program, in collaboration with the UCSB McNair Program, Opening New Doors to Accelerate Success (ONDAS) Student Center, Transfer Student Center (TSC), and Education Opportunity Program (EOP)
- 2018 **Research Mentor;** UCSB Ocean Global Change Biology Research Experience for Undergraduates (REU), Project: *Feeding Behavior in Warming Seas* (2018)
- Mentor & Seminar Leader;** University of California Leadership Excellence through Advanced Degrees (UC LEADS) Graduate Student Super-Mentor & Professional Development Seminar Series Leader (*Designing Your Poster, Presenting Your Work*) (2018)

Public Service & Outreach

- 2018-2019 **Field Work Volunteer;** BIOMA Sea Turtle Research Conservation Program, Ostional Wildlife Refuge, Costa Rica
- Presenter;** World Oceans Day, Santa Barbara Museum of Natural History, Sea Center

STEAM (Science, Technology, Engineering, Art, and Mathematics)

- 2018 - 2019 **Producer, Director;** *STEAMy Improv Workshops* for UCSB Ecology of Infectious Disease (EEMB 40) course sections in collaboration with UCSB EEMB, Theater & Dance, Center for Innovative Teaching, Research (CITRAL) Departments
- 2017 **Producer, Director;** UCSC Educational Performance Production: *Rethinking Natural History: Bridging understanding of the natural world through performance art*