Lyndsey S. Lefebvre

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EDUCATION

2009	College of Charleston, Charleston, SC	

M.S. in Marine Biology (Advisor: Michael Denson)

2003 University of California Santa Cruz, Santa Cruz, CA

B.S. in Marine Biology (Senior thesis advisor: Peter Raimondi)

RESEARCH EXPERIENCE

2020 – presen	The search Associate II, Biology department, Woods Hole Oceanographic Institution,
	Woods Hole, MA
2017 – 2020	Biologist, under contract to the Fishery Biology Program, Northeast Fisheries Science
	Center, NMFS, NOAA, Woods Hole, MA
2014 – 2017	Staff Research Associate II, under contract to the Groundfish Analysis Team,
	Southwest Fisheries Science Center, NMFS, NOAA, Santa Cruz, CA
2010 – 2014	Laboratory Assistant III, under contract to the Groundfish Analysis Team, Southwest
	Fisheries Science Center, NMFS, NOAA, Santa Cruz, CA
2010	Research Technician, Benthic Ecology Lab, Moss Landing Marine Laboratories, Moss
	Landing, CA
2007 – 2008	Graduate Research Assistant, Marine Resources Research Institute, South Carolina
	Department of Natural Resources, Charleston, SC
2005	Laboratory Technician, Benthic Ecology Lab, Moss Landing Marine Laboratories,
	Moss Landing, CA

TEACHING & MENTORING EXPERIENCE

2022	Llopiz lab mentor for undergraduate intern from Cape Cod Community College
2017 – 2018	Professional tutor for biology and human anatomy with the Advantage Program,
	Cape Cod Community College, Barnstable, MA
2012 – 2017	Agency sponsor and mentor for undergraduate and graduate interns and volunteers,
	SWFSC, Santa Cruz, CA
2006 – 2007	Graduate teaching assistant for undergraduate biology, College of Charleston,
	Charleston, SC
2005 – 2006	Science instructor at a non-profit environmental education organization, Marine
	Science Institute, Redwood City, CA
2003	Research assistant for the Pelagic Ecosystem Functions Research Apprenticeship
	course. University of Washington, Friday Harbor, WA

PEER-REVIEWED PUBLICATIONS (* IN PREP)

- *Lefebvre, L.S., H.M. Sosik, and J.K. Llopiz. Spawning in the deep: Reproductive life history of four mesopelagic fishes. Submitted to: Frontiers in Marine Science.
- *McBride, R.S., S.G. Beyer, C. Conrath, J.C. Field, M. Head5 N. Klibansky, K. Kolmos, **L.S. Lefebvre**, B. Linton, S. McDermott, S. Neidetcher, J. M. O'Malley, A. Pacicco, E. Schemmel, P. Spencer, C.

- Rodgveller, and M. Wuenschel. Applied reproductive biology and Ecology of marine fishes: a review of applications for monitoring, assessment, and management. In preparation for submission to: Fish and Fisheries.
- Caiger, P.E., **L.S. Lefebvre**, and J.K. Llopiz. 2021. Growth and reproduction in mesopelagic fishes: a literature synthesis. ICES Journal of Marine Science 78:765-781.
- **Lefebvre, L.S.**, C. Friedlander, and J.C. Field. 2019. Reproductive ecology and size-dependent fecundity in the Petrale sole (*Eopsetta jordani*) in waters of California, Oregon, and Washington. Fishery Bulletin 117:291-302. https://doi.org/10.7755/FB.117.4.2
- **Lefebvre, L.S.,** S. Beyer, N. Kashef, D. Stafford, E.J. Dick, S. Sogard, and J. Field. 2018. Double or nothing: plasticity in reproductive output in the chilipepper rockfish (*Sebastes goodie*). Fisheries Research 204:258-268.
- **Lefebvre, L.S.**, A.M. Payne, and J.C. Field. 2016. Reproductive dynamics of Pacific sanddab (*Citharichthys sordidus*). Journal of Sea Research 107:100-111.
- He, X., J.C. Field, D.E. Pearson, and **L.S. Lefebvre**. 2016. Age sample sizes and their effects on growth estimation and stock assessment outputs: Three case studies from U.S. West Coast Fisheries. Fisheries Research 180:92-102.
- **Lefebvre, L.S.** and J.C. Field. 2015. Reproductive complexity in a long-lived, deepwater fish, the Blackgill rockfish. Transactions of the American Fisheries Society 144:383-399.
- **Lefebvre, L. S.** and M. R. Denson. 2012. Inshore spawning of cobia (*Rachycentron canadum*) in South Carolina. Fishery Bulletin 110:397-412.

OTHER PUBLICATIONS

- **Lefebvre, L.S.**, E. Robillard, M.C. Palmer, R.S. McBride. 2021. Evaluating otolith growth patterns to discriminate among subpopulations of Northwest Atlantic cod (*Gadus morhua*): applicability of a new model to NEFSC bottom trawl survey samples. US Department of Commerce, Northeast Fisheries Science Center Reference Document 21-06. 21p. https://doi.org/10.25923/gwtd-2r8
- He, X., J.C. Field, D.E. Pearson, **L. Lefebvre**, and S. Lindley. 2015. Status of bocaccio, *Sebastes paucispinis*, in the Conception, Monterey and Eureka INPFC areas for 2015. Pacific Fishery Management Council.
- Pearson, D.E., **L.S. Lefebvre**, and X. He. 2015. Developing age determination criteria for bocaccio (*Sebastes paucispinis*). NOAA Technical Memorandum. NMFS-SWFSC-541. 24p.
- Xi, H., D.E. Pearson, J.C. Field, L. Lefebvre, and M. Key. 2013. Status of the U.S. Pacific Sanddab Resource in 2013. Pacific Fishery Management Council.

CONFERENCE PRESENTATIONS & WORKSHOPS

- American Fisheries Society (AFS) Annual Meeting. Honolulu, HI. Invited oral presentation in symposium: Lessons in Fish Reproduction for Sustainable Fisheries: Learning from multiple knowledge sources. Spawning in the Deep: Reproductive biology insights of four mesopelagic fishes.
- ICES Annual Science Conference. Gateshead, U.K. DNA metabarcoding of fish predator diets: insights and applications for mesopelagic food webs and deep-sea ecosystems. Coauthor (A. Buklin, 1st author).
- Ocean Sciences Meeting. New Orleans, LA. DNA metabarcoding of fish diets and food webs in the mesopelagic. Coauthor (poster; V. You, 1st author).
- National Stock Assessment Workshop (NSAW) and Maturity Assessment, Reproductive Variability and Life Strategy working group joint meeting. Providence, RI. Coauthor of Keynote

- presentation. Reproductive Biology of fish: applications for research, monitoring, assessment, and management (R. McBride, 1st author).
- 2023 Maturity Assessment Reproductive Variability and Life Strategy Group quarterly seminar. Virtual. Invited presenter. *Reproduction in Sebastes*.
- Maturity Assessment Reproductive Variability and Life Strategy Group Biennial Workshop. Virtual. Organizer, facilitator, and presenter. *Gonad Histology Review QA/QC Exercise*.
- 2018 20th Western Groundfish Conference. Monterey, CA. Back to basics: Why basic life history data still matter in an age of advanced population modeling.
- 2016 PICES Annual Meeting. San Diego, CA. Plasticity in reproductive strategies for rockfish in the Southern California Current. (poster)
- 19th Western Groundfish Conference. Newport, OR. Double or nothing: within population deviations in reproductive strategy in Chilipepper rockfish (Sebastes goodie).
- American Fisheries Society Annual Meeting. Portland, OR. Double or nothing: within population deviations in reproductive strategy in Chilipepper rockfish (Sebastes goodei).
- 2014 9th International Flatfish Conference. Cle Elum, WA. Doin' it well: the life and reproductive times of Pacific sanddab, Citharichthys sordidus.
- 2014 Maturity Assessment Reproductive Variability and Life Strategy Group Workshop. Seattle, WA. Interpreting complex reproductive biology: a case study in Blackgill rockfish.
- 2012 17th Western Groundfish Conference. Seattle, WA. Adolescent blackgill blues: an investigation into anomalies in ovarian development of Sebastes melanostomus.
- CalCOFI Annual Conference. Pacific Grove, CA. Breaking the cycle: anomalies in ovarian development of blackgill rockfish, Sebastes melanostomus. (poster)
- South Carolina Chapter of the American Fisheries Society Annual Meeting. Santee, SC. Reproductive dynamics of cobia, Rachycentron canadum, in Port Royal Sound and St. Helena Sound, South Carolina.
- 2008 College of Charleston Student Research Colloquium. Charleston, SC. Reproductive dynamics of cobia, Rachycentron canadum, in Port Royal Sound and St. Helena Sound, South Carolina.

REFEREE FOR PUBLICATIONS

Journal of Fish Biology
Environmental Biology of Fishes
Marine Ecology Progress Series
Fishery Bulletin
CalCOFI Reports
Transactions of the American Fisheries Society
California Department of Fish and Wildlife
Monterey Bay Aquarium Seafood Watch

RESEARCH CRUISE PARTICIPATION

- 2022 RV Atlantis: Northeast US Shelf Long-Term Ecological Monitoring Ecological Research project (NES-LTER), WHOI, Northeast US, (6 days)
- 2021 RV Endeavor: NES-LTER, WHOI, Northeast US (6 days)
- 2020 RV Neil Amstrong: Ocean Twilight Zone cruise, WHOI, Northeast US (5 days)
- 2018 NOAAS Henry B. Bigelow: Bottom Trawl Survey, NEFSC, Gulf of Maine (13 days)
- NOAAS Reuben Lasker: Juvenile Rockfish Recruitment and Ecosystem Assessment Survey (RREAS), SWFSC, California Current (11 days)
- 2016 FV Alaska Knight: Eastern Bering Sea Bottom Trawl Survey, AFSC, Bering Sea, AK (22 days)
- 2016 NOAAS Reuben Lasker: RREAS, SWFSC, California Current (24 days)

2015	RV Ocean Starr: RREAS, SWFSC, California Current (15 days)
2014	RV Ocean Starr: RREAS, SWFSC, California Current (21 days)
2013	RV Ocean Starr: RREAS, SWFSC, California Current (14 days)
2005	FV Gladiator: Gulf of Alaska Bottom Trawl Survey, AFSC, Gulf of Alaska (23 days)

NEARSHORE VESSEL OPERATIONS

2012 – 2017	22' Boston Whaler, outboard; biological sampling in Monterey Bay, CA
2010	21' Boston Whaler, outboard; biological sampling & SCUBA dive operations in San
	Francisco Bay, CA
2007 – 2008	17' and 21' Boston Whalers, outboard; ichthyoplankton and biological sampling in Port
	Royal Sound and St. Helena Sound, SC
2001 – 2007	Various (12' – 26') Boston whalers, inflatable outboards, aluminum skiffs, and inboard vessels for SCUBA dive operations (Monterey Bay, CA; Channel Islands, CA; Moorea, French Polynesia); midwater trawl sampling (San Joaquin River, CA); and plankton sampling (San Juan Islands, WA)

OUTREACH

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2024	"Twilight Zone: Hidden Wonders of the Ocean"; Docent training, attendance at
	exhibit opening. Artechouse DC & WHOI OTZ Project. Washington, DC.
2024	"Diving into the Twilight Zone"; WHOI OTZ middle-high school curriculum
	development. WHOI OTZ Project. Woods Hole, MA.
2023	"Behind the Scenes at WHOI" in association with the Ocean Encounters Event
	"Becoming a Marine Biologist". WHOI and SeaGrant. Woods Hole, MA.
2023	Falmouth Public Library and Eight Cousins Bookshop. Book reading "Where the Weird
	Things Are". WHOI OTZ Project. Falmouth, MA.
2022	Keith Middle School outreach. Deep Sea Adaptations. WHOI Committee for Diversity,
	Equity, and Inclusion. New Bedford, MA.
2021	NOAA Live! Webinar. A strange and mysterious hidden world: the Ocean Twilight
	Zone. WHOI SeaGrant. Online.
2010 - 2015	Squids4Kids. Stanford Hopkins Marine Station & Southwest Fisheries Science Center
	Santa Cruz, CA.

PROFESSIONAL ACTIVITIES

2014 - present	MARVLS (Maturity Assessment Reproductive Variability and Life Strategies), Steering
	committee member
2008	Early Life History of Marine Fishes, University of New England, Biddeford, ME; course
	participant

PROFESSIONAL ORGANIZATIONS

Sigma XI

The American Fisheries Society

Honors & Awards

HONORS & AWARDS	
2008	Nominee for membership, Sigma Xi, The Scientific Research Honor Society
2008	Best Student Paper, SCAFS Annual Meeting
2003	Honors Senior Thesis, UC Santa Cruz
2003	Honors in the Major, UC Santa Cruz
2003	College Honors, UC Santa Cruz

CERTIFICATIONS

AAUS Scientific Diver Certification (not current)
NAUI Master Diver
NAUI Rescue Diver
NAUI Advanced Diver
NOAA Small Boat Operator
U.S. Fish and Wildlife Service Motor Boat Operator Certification Course
NOAA Small Boat Component Course
CA Boater Safety
SC Boater Safety