

David Kimbro

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Education

2008 University of California at Davis, Ph.D. Ecology
2004 University of California at Davis, M.S. Ecology
1998 University of North Carolina at Chapel Hill, B.S. Public Health

Professional experience

2013-present Assistant Professor, Department of Earth and Environmental Sciences,
Northeastern University
2010-2012 Florida State University Marine Laboratory, Assistant Scholar Scientist
2008-2010 Florida State University Coastal and Marine Laboratory, Postdoctoral Associate
2007 Bodega Marine Laboratory, Graduate Fellow
2006 University of California Marine Council, Graduate Fellow
2004-05 University of California at Davis, Graduate Fellow
2003 University of California at Davis, John Muir Institute for the Environment Fellow
2002 University of California at Davis, Graduate Fellow
2001 Research Technician, Dr. Edwin Grosholz, University of California at Davis.
2000 Research Technician, Dr. Hans Paerl, University of North Carolina-Institute
of Marine Sciences
1998-2000 Research Technician, Dr. Charles Peterson, University of North Carolina-Institute
of Marine Sciences

Publications

ISI *Web of Science*: h-index = 6, total times cited = 155, average citations per year = 22.14,
average citations per item = 15.5

Kimbro, D.L., Cheng, B.S., & Grosholz, E.D. (in press). Biotic resistance in marine environments. *Ecology Letters*. doi: 10.1111/ele.12106

Hughes, A. R., K. Rooker, M. Murdock, and **D. L. Kimbro**. 2012. Predator cue and prey density interactively influence indirect effects on basal resources in intertidal oyster reefs. *PLoS ONE* 7(9): e44839. doi:10.1371/journal.pone.0044839

Kimbro, D. L. 2012. Tidal regime dictates the cascading consumptive and non-consumptive effects of multiple predators on a marsh plant. *Ecology* 93(2): 334-344.

Kimbro, D. L. E. D. Grosholz, A. Baukus, N. Nesbitt, N. Travis, S. Attoe, and C. Coleman-Hulbert. 2009. Invasive species cause large-scale loss of native California oysters by disrupting trophic cascades. *Oecologia*. 160: 563-575.

Kimbro, D. L., J. Largier, and E. D. Grosholz. 2009. Coastal oceanographic processes influence the growth and size of a key estuarine species, the Olympia oyster. *Limnology*

- and Oceanography*. 54(5): 14225-1437.
- Grabowski, J. H., A. R. Hughes, and **D. L. Kimbro**. 2008. Habitat complexity influences cascading effects of multiple predators. *Ecology* 89(12): 3413-3422.
- A. R. Hughes, J. E. Byrnes, **D. L. Kimbro**, and J. J. Stachowicz. 2007. Reciprocal relationships and potential feedbacks between biodiversity and disturbance. *Ecology Letters* 10(9): 849-864.
- Kimbro, D. L.** and E. D. Grosholz. 2006. Disturbance influences oyster community richness and evenness, but not diversity. *Ecology* 87(9): 2378-2388.
- Grabowski, J. H., A. R. Hughes, **D. L. Kimbro**, and M. A. Dolan. 2005. How habitat setting influences restored oyster reef communities. *Ecology* 86(7): 1926-1935.
- Grabowski, J. H. and **D. L. Kimbro**. 2005. Predator-avoidance behavior extends trophic cascades to refuge habitats. *Ecology* 86(5): 1312-1319.

Reports

- Kimbro, D. L.**, S. Phillips and E. D. Grosholz. 2007. Recommendations and Summary of Discussion from the Alternative Ballast Water Exchange Area Workshop Working Group. Pacific States Marine Fisheries Commission, 22 pp.

Invited Presentations

- Kimbro D. L.** 2012. Context-Dependent Predator Effects on Oyster Reefs. Whitney Marine Laboratory, University of Florida, July 2012.
- Kimbro, D. L.** 2012. The effects of invasive species and physical forcing on predator interactions in estuarine systems. Sydney Institute of Marine Science. Mosman, New South Wales, Australia. February 2012.
- Kimbro D.L.** 2012. The effects of invasive species and environmental gradients on predator-prey interactions in estuaries. Deakin University, Geelong Campus at Waurn Ponds, School of Life and Environmental Sciences Department Seminar Series. Geelong, Victoria, Australia. February 2012.
- Valdosta State University. Biology Department Seminar Series. Valdosta, Georgia, February 2011.
- Florida State University. Ecology and Evolution Lecture Series. Tallahassee, Florida, September 2010.
- National Science Foundation sponsored conference on the Deepwater Horizon oil spill. September 2010. Florida State University, Tallahassee, Florida.
- Sixth International Conference on Marine Bioinvasions. 2009. Portland State University, Portland, Oregon, 24-27 August.
- Bodega Marine Laboratory's John and Mary Louise Riley Seminar Series. 2008. Bodega Bay, California, June 6.
- National Park Service-Point Reyes National Seashore's Science Lectures. 2007. Point Reyes Station, California, March 13.
- National Oceanic and Atmospheric Administration's (NOAA) West Coast Native Oyster Restoration Workshop. 2007. San Rafael, California, August 4-6.
- National Oceanic and Atmospheric Administration's (NOAA) West Coast Native Oyster Restoration Workshop. 2006. San Rafael, California, September 6-8.
- Pacific States Marine Fisheries Commission's Workshop on Alternate Ballast Water Exchange Areas: Physical and Biological Oceanographic Considerations. 2006. Seattle,

Washington, June 20-22.

Contributed Presentations

- Kimbro, D. L.** 2012. Tidal regime dictates the cascading consumptive and nonconsumptive effects of multiple predators on salt marshes. Portland, OR. August 2012
- Kimbro, D. L.** 2012. Marine biotic resistance: patterns and underlying mechanisms. Benthics Ecology Meeting, Norfolk, Virginia.
- Garland, H. and **D. Kimbro**. 2012. A comparative experimental evaluation of large-scale loss of Floridian oysters. Benthic Ecology meeting, Norfolk, VA, March 21-24.
- Rooker, K., **D. Kimbro**, and A.R. Hughes. 2012. The indirect effects of predators on oyster reefs: reconciling the relative influence of mortality, competition, and behavior at the intermediate trophic level. Benthic Ecology meeting, Norfolk, VA, March 21-24.
- Zerebecki, R., H. Garland, **D. Kimbro**, and A.R. Hughes. 2012. Preferential climbing on *Spartina* reproductive stems by the marsh snail *Littoraria*: a commensal relationship. Benthic Ecology meeting, Norfolk, VA, March 21-24.
- Kimbro, D. L.** and A. R. Hughes. 2011. The effects of oil exposure and nutrient addition on salt marsh communities across the northeastern Gulf coast. Northern Gulf Institute Meeting, Mobile, Alabama
- Kimbro, D. L.** 2011. Coastal oceanographic processes dictate the size of a key estuarine species, the Olympia oyster. Benthics Ecology Meeting, Mobile, Alabama.
- Kimbro, D. L.** 2010. Tidal forcing dictates the consumptive and non-consumptive effects of multiple predators on smooth cordgrass (*Spartina alterniflora*) along the Gulf coast of Florida. Benthics Ecology Meeting, Wilmington, NC.
- Kimbro, D. L.** and E. D. Grosholz. 2007. Invasive species alter food webs by simplifying and eliminating trophic cascades. Ecological Society of America. San Jose, California, August 5-10.
- Kimbro, D. L.** and E. D. Grosholz. 2007. Invasive predators alter food webs by simplifying and eliminating trophic cascades. Benthics Ecology Meeting, Atlanta, Georgia, March 22-24.
- Kimbro, D. L.** and E. D. Grosholz. 2006. Does the Olympia oyster function as a foundation species in Tomales Bay, CA? NOAA's West Coast Native Oyster Restoration Workshop. San Rafael, California, September 6-8.
- Kimbro, D. L.**, N. Travis, and E. D. Grosholz. 2005. The distribution of native and non-native whelks and its effect on native oyster communities in Tomales Bay, CA. 86th Annual Meeting of Western Society of Naturalists. Monterey, CA.
- Kimbro, D. L.** and E. D. Grosholz. 2004. Maintenance of biodiversity in a native California oyster community: the relative importance of disturbance, competition, and facilitation. 85th Annual Meeting of Western Society of Naturalists.
- Kimbro, D. L.** and E. D. Grosholz. 2004. The influence of a foundation species, the native California oyster, on community-wide diversity. Benthic Ecology Meeting, Mobile, Alabama. March 9-12.
- Kimbro, D. L.** and J. H. Grabowski. 2000. The pervasive effects of toadfish on juvenile bivalves. Benthic Ecology Meeting, Wilmington, North Carolina, March 9-12.

Professional Affiliations

Ecological Society of America
Benthic Ecology Society

Research Grants

- 2012 Title: Installation of an oyster-reef monitoring framework throughout Apalachicola Bay, FL to understand declining oyster landings and alternative management strategies. Project Development Funds from Florida SeaGrant. Funded. Dr. David Kimbro (PI) awarded 10,000.00. Dates: 10/1/2012 to 9/30/2013.
- 2012 Title: Communicating Research to Public Audiences (CRPA), In the Grass and on the reef: predator effects on coastal ecosystems. National Science Foundation. Funded to PIs A. R. Hughes and D. L. Kimbro. Jan 2012 – December 2013, 149,685.
- 2012 University of Technology Sydney. 2012. Visiting scholar. Funded \$5,000.
- 2011 Population and community dynamics of oyster reefs in Cumberland, Timucuan, and Cape Canaveral National Seashores. National Park Service. Funded \$29,451. Co-PI: A.R. Hughes.
- 2011 Title: An investigation of the spatial extent and cause(s) of an oyster reef die-off in Guana Tolomato Matanzas National Estuarine Research Reserve. 2011 Graduate Student Fellow with the Florida Sea Grant and Guana Tolomato Matanzas National Estuarine Research Reserve. Funded. Ms Hanna Garland (graduate student, lead-PI) and Dr. David Kimbro (Co-PI) awarded 7,500.00. Dates: 5/1/2011 – 4/30/2011.
- 2011 Title: Developing indicators to evaluate oyster reef water filtration services along the Atlantic and Gulf coast of Florida, USA. Project Development Funds from Florida SeaGrant. Funded. Dr. David Kimbro (lead-PI) and Dr. A.R. Hughes (Co-PI) awarded 10,000.00. Dates: 5/1/2011 to 4/30/2011.
- 2011 Title: REU supplemental request for OCE-0961633, “Collaborative Research: the influence of predators on community structure and resultant ecosystem functioning at a biogeographic scale. National Science Foundation, Biological Oceanography. Funded. Dr. David Kimbro (Lead-PI) and Dr. A.R. Hughes (co-PI) awarded 9,425.00. Dates: 5/1/2011-8/1/2011.
- 2010 Title: Impact of crude oil on coastal and ocean environments of the West Florida Shelf and Big Bend Region from the shoreline to the continental shelf edge. National Oceanic and Atmospheric Association Northern Gulf Institute. Funded \$59,755. Co-PI: D. Kimbro.
- 2010 Title: “The Deepwater Horizon oil spill: Assessing impacts on a critical habitat, oyster reefs and associated species in Florida Gulf estuaries”. Florida Institute of Oceanography. Funded. Dr. David Kimbro (co-PI, 40,000 to Kimbro). Florida State University Coastal and Marine Laboratory. Dates (08/01/2010-07/31/2012).
- 2009 Collaborative Research: the influence of predators on community structure and resultant ecosystem functioning at a biogeographic scale. National Science Foundation, Biological Oceanography (Proposal No: 0961633, Kimbro Lead P.I.), funded. Joint with University of Georgia (James Byers, Co-P.I.), Florida State University (A. R. Hughes, Co-P.I.), Gulf of Maine Research Institute (Jonathan Grabowski, Co-P.I.), and University of North Carolina-Chapel Hill (Michael Piehler, Co-P.I.); FSU portion \$291,833; May. 1, 2010 – April 30, 2013

- 2005-06 Henry A. Jastro and Peter J. Shields Research Scholarship Award (\$4,000).
 2005 San Francisco Bay Area National Park Research Grant, “Guiding the restoration of Olympia oysters in Point Reyes National Seashore: measure limits to population growth and consequences for estuarine biodiversity” (\$2,000).
 2002-06 Bodega Marine Laboratory Intercampus Travel Research Grant (\$8,000).
 2004 San Francisco Bay Area National Park Research Grant, “Investigating the demographic limits to restoring native oysters (*Ostreola conchaphila*) in a central California estuary” (\$1,500).
 2002 California Natural Resources Grant, John Muir Institute for the Environment, University of California at Davis (\$2000)

Graduate Students

Ms. Hanna Garland (M.S. Student, Fall 2011-present), Graduate Biology Program, Florida State University

Undergraduate Teaching and Mentoring Experience

- 2012-present Mentored one undergraduate student (J. Melkun) on her internship with the FSU Marine Certificate Program from June 2012-November 2012.
 2012-present Mentored a National Science Foundation sponsored REU student (B. Williams, Florida State University)
 2011-2012 Mentored two undergraduate students (E. Pettis and P. Langdon) on their Directed Independent Study and Biology Laboratory course.
 2011 Mentored one undergraduate student (K. Roebuck) on his internship with the FSU Marine Certificate Program from June 2011-November 2011.
 2010-11 Mentored one post-graduate student (C. Lima Martinez) on her internship project for the Spanish Ministry of Education.
 2011-12 Mentored a National Science Foundation sponsored REU student (K. Rooker, Bridgewater College)
 2011 Accepted one graduate student for fall term of 2011. With this student, I helped develop a research proposal that was awarded one year of research funding for the student (7,500.00 from Florida SeaGrant).
 2011 Mentor to undergraduate participating in NSF-funded Research Experience for Undergraduate Program that was awarded to Dr. Kimbro and Dr. A.R. Hughes.
 2010-present Mentor to Cristina Lima, who was selected out of 20,000 applicants by the Spanish Ministry of Education to conduct a paid research internship. Ms. Lima chose to complete this internship in my laboratory (www.becasargo.es).
 2010 Mentor to FSU undergraduate participating in the Directed Independent Study. Alexa Davis, Environmental Science and Policy
 2010 Mentor to FSU undergraduate participating in the Directed Independent Study. Evan Pettis, Department of Biological Science
 2010 Mentor to Lincoln High School student, Austin Gelin
 2010 Mentor to Lincoln High School student, Lauren Jones.
 2010 Instructor, *Experimental Ecology*, Oberlin College and Conservatory winter term at FSUCML (3 undergraduate students).
 2009 Co-instructor, *Marine Invertebrates*, Florida State University Coastal and Marine Laboratory.

- 2009 Instructor, *Experimental Ecology*, Oberlin College and Conservatory winter term at Florida State University Coastal and Marine Laboratory (three undergraduate students).
- 2008 Mentor to FSU undergraduate participant in a Directed Independent Study Nick Coria, Environmental Science and Policy
- 2008 Mentor to FSU undergraduate and participant in a Directed Independent Study. Justis Freeley, Department of Biological Science
- 2008 Mentor to FSU undergraduate and participant in Marine Certificate Program. With this mentoring, Sarah Seip (Department of Biological Science) won a research grant of \$1,000 from the Florida State University, Undergraduate Research and Creative Endeavors Committee
- 2006 Mentor to undergraduate (Nick Nesbitt, California Polytechnic State University) participating in NSF-funded Research Experience for Undergraduate Program at the Bodega Marine Laboratory. **(Resulted in publication)**
- 2006 Teaching Assistant, Introductory Biology, Dr. R. B. Kimsey and Dr. J. A. Rosenheim, University of California at Davis.
- 2005 Mentor to undergraduate (Nicole Travis, Brown University) participating in NSF-funded Research Experience for Undergraduate Program at the Bodega Marine Laboratory. **(Resulted in publication)**
- 2003 Teaching Assistant, Marine Ecology, Dr. J. J. Stachowicz, University of California at Davis.
- 2002 Teaching Assistant, Marine Ecology, Dr. J. J. Stachowicz, University of California at Davis.

Synthetic activities

- 2012 Visiting Scholar, University of Technology Sydney, Australia
- 2010-2011 Collaborating with local public broadcasting station (WFSU) to create and maintain a research blog that communicates research findings to the public: <http://wfsu.org/blog-coastal-health/>

Academic Service

Manuscripts reviewed for

Ecology

Ecology Letters

Marine Ecology Progress Series

Oecologia

Oikos

Transactions of the American Fisheries Society

Environmental Management

Florida Scientist

Aquatic Biology

Marine Ecology

Biological Invasions

Reports and Grants reviewed for

National Estuarine Research Reserve

National Science Foundation
National Fish and Wildlife Foundation

Professional Service

2012 - Faculty Search Committee at Florida State University Coastal and Marine Laboratory
2012-present; Chair of Evaluation and Promotion Committee at Florida State University Coastal and Marine Laboratory
2012-present; Science Collaborative Panelist for National Estuarine Research Reserve System
2010-2011; Organized the Florida State University Coastal and Marine Laboratory Lecture Series
2010-present; Serve on Lab and Tank Space Committee for Florida State University Coastal and Marine Laboratory
2010-present; Advisor to Coastal Training Program at the Apalachicola National Estuarine Research Reserve

Outreach Service

Seminar presented to St. Augustine Community Association (SACA) in March 2011 about the causes and consequences of oyster habitat degradation. St. Augustine, Florida.
Guest writer on behalf of Florida State University Coastal and Marine Lab for local monthly publication, *Wakulla Times*
Collaborator with WFSU to produce an eco-blog to educate the public about how application of the scientific method within salt marshes and oyster reefs can be used to learn about the health of the North Florida coastline; <http://wfsu.org/community/coastal-health>