

LISA A. KERR

Gulf of Maine Research Institute, 350 Commercial Street, Portland, ME 04101,
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EDUCATION

Ph.D. – *University of Maryland, Chesapeake Biological Laboratory, 2008*

Major: Marine, Estuarine, & Environmental Sciences, concentration in Fisheries Science

Dissertation: Cause, consequence, and prevalence of spatial structure of white perch (*Morone americana*) populations in the Chesapeake Bay

M.S. – *Moss Landing Marine Laboratories, San Francisco State University, 2003*

Major: Marine Science, concentration in Ichthyology

Thesis: Bomb radiocarbon in otoliths of yelloweye rockfish (*Sebastes ruberrimus*) as a chronometer for age validation of quillback rockfish (*Sebastes maliger*).

B.S. – *Tufts University, 1997*

Major: Biology

Senior thesis: Fitness costs of salinity fluctuation on the marine polychaete, *Capitella* sp. I.

APPOINTMENTS

Research Scientist, Gulf of Maine Research Institute, 2012-present

Adjunct Graduate Faculty, University of Maine, School of Marine Sciences, 2012-present

Adjunct Graduate Faculty, University of Massachusetts Dartmouth, School of Marine Science and Technology, 2012-present

Post-doctoral Researcher/Research Associate, University of Massachusetts Dartmouth, 2008-2012

Graduate Student Researcher, University of Maryland Center for Environmental Science, 2004-2008

Research Technician, Moss Landing Marine Laboratories, 2003-2004

Graduate Student Researcher, Moss Landing Marine Laboratories, 2001-2003

Research Assistant, California Sea Grant College Program, 2001-2002

Research Assistant, Pacific States Marine Fishery Commission, 2000-2002

Environmental Scientist/Consultant, All Environmental, Inc., 1999

PUBLICATIONS

Peer-reviewed Publications

1. Morse, M.R., Kerr, L.A., Cadrin S.X. In Review. Misspecifying the maguro: Evaluating stock assessment performance on mixed stocks of Atlantic bluefin tuna. *Canadian Journal of Fisheries and Aquatic Science*.
2. Guan, L., Chen, Y., Wilson, J. A., Waring, T., Kerr, L., Shan, X. In Press. Ecological and management implications of spatially variable and connected recruitments for a Metapopulation. *Canadian Journal of Fisheries and Aquatic Science*.
3. Clucas, G., Kerr, L. Cadrin, S.X., Sherwood, G.D., Goethel, D. Whitener, Z. Kovach, A. I. In Press. Adaptive Genetic Variation Underlies Biocomplexity of Atlantic Cod in the Gulf

of Maine and on Georges Bank. PLOS ONE

4. Kerr, L.A., Kritzer, J.P., Cadrin, S. X. In Press. Strengths and limitations of Before-After-Control-Impact analysis for testing the effects of marine protected areas on managed populations. *ICES Journal of Marine Science*.
5. Cadrin, S.X., Goethel, D.R, Morse, M.R., Fay, G., Kerr, L. A. In Press. "So, where do you come from?" the impact of assumed spatial population structure on estimates of recruitment. *Fisheries*.
6. Wang L., **Kerr L.A.**, Record N.R., Bridger E., Tupper B., Mills K.E., Armstrong E.M., and Pershing A.J. Modeling marine pelagic fish species spatiotemporal distributions utilizing a maximum entropy approach. *Fisheries Oceanography*. 27 (6): 571-586.
7. **Kerr, L.A.**, Hintzen, N. T., Cadrin, S. X., Clausen, L. W. Dickey-Collas, M., Goethel, D. R., Hatfield, E. M.C., Kritzer, J. P., Nash R. D.M. 2016. Lessons learned from practical approaches to reconcile mismatches between biological population structure and stock units of marine fish. *ICES Journal of Marine Science* DOI: 10.1093/icesjms/fsw188
8. **Kerr, L.A.**, Cadrin, S. X., Secor, D. H. Nathan G. Taylor. 2016. Modeling the implications of stock mixing and life history uncertainty of Atlantic bluefin tuna. *Canadian Journal of Fisheries and Aquatic Sciences*, DOI: 10.1139/cjfas-2016-0067
9. Christiansen, H.M., Campana, S.E., Fisk, A.T., Cliff, G., Wintner, S., Dudley, S.F.J., **Kerr, L.A.**, and Hussey, N.E. 2016. Using bomb radiocarbon to estimate age and growth of the white shark, *Carcharodon carcharias*, from the southwestern Indian Ocean. *Marine Biology* 163: 144. doi:10.1007/s00227-016-2916-9
10. Goethel, D.R., Kerr, L.A., Cadrin, S.X. 2016. Incorporating spatial population structure into the assessment-management interface of marine resources. In: *Management Science in Fisheries: A Practical Introduction to Simulation-based Methods* (Eds. D. Dankle, C.T.T Edwards). Taylor & Francis Group.
11. Pershing, A.J., Alexander, M.A., Hernandez, C.M., **Kerr, L.A.**, Le Bris, A. Mills, K. E., Nye J. A., Record, N. R., Scannell, H. A., Scott, J. D., Sherwood, G. D., Thomas, A. C. 2015. Slow Adaptation in the Face of Rapid Warming Leads to the Collapse of Atlantic Cod in the Gulf of Maine. *Science*. DOI:10.1126/science.aac9819
12. Andrews, A.H., **Kerr, L.A.** 2014. Validated age estimates for large white sharks of the northeastern Pacific Ocean: altered perceptions of vertebral growth shed light on complicated bomb $\Delta^{14}\text{C}$ results. *Environmental Biology of Fishes*. DOI: 10.1007/s10641-014-0326-8
13. Cadrin, S.X., **Kerr, L.A.**, Mariani, S. 2014. Stock Identification: An Overview. In: *Stock Identification Methods* (Eds. S. Cadrin, L. Kerr, S. Mariani). 2nd Edition. Elsevier. 566 pp.
14. Cadrin, S.X., **Kerr, L.A.**, Mariani, S. 2014. Interdisciplinary evaluation of spatial population structure for definition of fishery management units. In: *Stock Identification Methods* (Eds. S. Cadrin, L. Kerr, S. Mariani). 2nd Edition. Elsevier. 566 pp.

15. **Kerr, L.A.**, Cadrin, S.X., Kovach, A. 2014. Consequences of a mismatch between biological and management units of Atlantic cod off New England. *ICES Journal of Marine Science* doi:10.1093/icesjms/fsu113
16. **Kerr, L.A.**, Campana, S.E. 2014. Chemical composition of fish hard parts as a natural marker of fish stocks. *In: Stock Identification Methods* (Eds. S. Cadrin, L. Kerr, S. Mariani). 2nd Edition. Elsevier. 566 pp.
17. **Kerr, L.A.**, Goethel, D.R. 2014. Simulation modeling as a tool for synthesis of stock identification information. *In: Stock Identification Methods* (Eds. S. Cadrin, L. Kerr, S. Mariani). 2nd Edition. Elsevier. 566 pp.
18. Zemeckis, D.R., Martins, D., **Kerr, L.A.**, Cadrin, S. X. 2014. Stock identification of Atlantic cod (*Gadus morhua*) in US waters: an interdisciplinary approach. *ICES Journal of Marine Science*. doi: 10.1093/icesjms/fsu032.
19. **Kerr, L.A.**, Secor, D.H. 2012. Partial migration across populations of white perch (*Morone americana*): a flexible life history strategy in a variable estuarine environment. *Estuaries and Coasts*. 35(1): 227-236.
20. Andrews, A.H., Natanson, L.J., **Kerr L.A.**, Burgess, G.H., Cailliet, G.M. 2011. Bomb radiocarbon and tag-recapture dating of sandbar shark (*Carcharhinus plumbeus*). *Fishery Bulletin*. 109: 454-465.
21. Cadrin S.X., Mariani, S., Pampoulie, C., **Kerr, L.**, Reinert J. Stransky, C. 2011 Counter-comment on: Cadrin et al. (2010) "Population structure of beaked redfish, *Sebastes mentella*: evidence of divergence associated with different habitats." *ICES Journal of Marine Science*. 68(10): 2016-2018.
22. Cadrin S.X., Bernreuther, M., Daníelsdóttir, A.K., Hjörleifsson, E., Johansen, T., **Kerr, L.**, Kristinsson, K., Mariani, S., Nedreaas, K., Pampoulie, C., Planque, B., Reinert, J., Saborido-Rey, F., Sigurdsson, T., C Stransky, C. 2010 Population Structure of beaked redfish, *Sebastes mentella*: evidence of divergence associated with different habitats. *ICES Journal of Marine Science* 67: 1617-1630.
23. **Kerr, L.A.**, Cadrin, S.X., Secor, D.H. 2010. Simulation modeling as a tool for examining the consequences of spatial structure and connectivity to local and regional population dynamics. *ICES Journal of Marine Science*. 67(8): 1631-1639.
24. **Kerr, L.A.**, Cadrin, S.X., Secor, D.H. 2010. The role of spatial dynamics in the stability, resilience, and productivity of an estuarine fish population. *Ecological Applications*. 20(2): 497-507.
25. **Kerr, L.A.**, Secor, D.H. 2010. Latent effects of early life history on partial migration for an estuarine-dependent fish. *Environmental Biology of Fishes*. 89: 479-492.
26. Runge, J., Kovach, A., Churchill, J., **Kerr, L.**, et al. 2010. Understanding Climate Impacts on Recruitment and Spatial Dynamics of Atlantic Cod in the Gulf of Maine: Integration of Observations and Modeling. *Progress in Oceanography*. 87(1-4): 251-263.
27. **Kerr, L.**, Connelly W., Martino, E., Peer, A., Woodland, R. 2009. Climate change in the US Atlantic affecting recreational fisheries. *Reviews in Fisheries Science*. 17(2): 267-289.

28. **Kerr, L.A.**, Secor, D.H. 2009. Bioenergetic trajectories underlying partial migration in Patuxent River (Chesapeake Bay) white perch (*Morone americana*). Canadian Journal Fisheries and Aquatic Science. 66(4): 602-612.
29. **Kerr, L.A.**, Secor, D.H., Piccoli, P. 2009. Partial migration of fishes as exemplified by the estuarine-dependent white perch. Fisheries. 34(3): 114-123.
30. Secor, D.H., **Kerr L.A.** 2009. A lexicon of life cycle diversity in diadromous and other fishes. In: Haro, A. J., K.L. Smith, R.A. Rulifson, C.M. Moffitt, R.J. Klauda, M.J. Dadswell, R.A. Cunjak, J.E. Cooper, K.L. Beal, and T.S. Avery, editors. 2009. Challenges for Diadromous Fishes in a Dynamic Global Environment. American Fisheries Society Symposium 69: 537-556.
31. Secor, D.H., **Kerr, L.A.**, Cadrin, S.X. 2009. Connectivity effects on productivity, stability, and response diversity in an Atlantic herring metapopulation. ICES Journal of Marine Science. 66: 1726-1732.
32. **Kerr, L.A.**, Secor, D.H., Kraus, R.T. 2007. Stable isotope ($\delta^{13}\text{C}$ and $\delta^{18}\text{O}$) composition of otoliths as a proxy for environmental salinity experienced by an estuarine fish. Marine Ecology Progress Series. 348: 245-253.
33. Andrews, A.H., **Kerr, L.A.**, Cailliet, G.M., Lundstrom, C.C., Brown, T.A., and Coale, K.H. 2007. Age validation of the canary rockfish (*Sebastes pinniger*) from the northeastern Pacific Ocean using ^{210}Pb : ^{226}Ra disequilibria and bomb ^{14}C . Marine and Freshwater Research. 58(6): 531-541.
34. Ardizzone, D., Cailliet G.M., Natanson, L.J., Andrews, A.H., **Kerr, L.A.**, Brown, T.A. 2006. Application of bomb radiocarbon chronologies to shortfin mako (*Isurus oxyrinchus*) age validation. Environmental Biology of Fishes. 77: 355-366.
35. **Kerr, L.A.**, Andrews, A.H., Cailliet, G.M., Brown, T.A., Coale K.H. 2006. Investigations of $\Delta^{14}\text{C}$, $\delta^{13}\text{C}$, and $\delta^{15}\text{N}$ in vertebrae of white shark (*Carcharodon carcharias*) from the eastern North Pacific Ocean. Environmental Biology of Fishes. 77: 337-353.
36. Andrews, A.H., Burton, E.J., **Kerr, L.A.**, Cailliet, G.M, Coale, K.H., Lundstrom, C.C., DeVogelaere, A.P. 2005. Bomb radiocarbon and lead-radium disequilibria in otoliths of bocaccio rockfish (*Sebastes paucispinis*): a determination of age and longevity for a difficult-to-age fish. Marine and Freshwater Research. 56: 517-528.
37. Andrews, A.H., Cailliet, G.M, **Kerr, L.A.**, Coale, K.H., Lundstrom, C.C., DeVogelaere, A.P. 2005. Determining the age and growth of three species of deep-sea coral from the Davidson Seamount off central California. In: Cold-water Corals and Ecosystems. A. Freiwald and J.M. Roberts eds. pp. 965-982.
38. **Kerr, L.A.**, Andrews, A.H., Munk, K., Coale, K.H., Frantz, B.R., Cailliet G.M., Brown, T.A. 2005. Age validation of quillback rockfish (*Sebastes maliger*) using bomb radiocarbon. Fishery Bulletin. 103: 97-107.
39. **Kerr, L.A.**, Andrews, A.H., Frantz, B.R., Coale, K.H., Brown, T.A., Cailliet G.M. 2004. Radiocarbon in otoliths of yelloweye rockfish (*Sebastes ruberrimus*): a reference time series for the coastal waters of southeast Alaska. Canadian Journal of Fisheries and Aquatic Science. 61: 443-451.

40. Peckenik, J., Berard, R., **Kerr, L.A.** 2000. Effects of reduced salinity on survival, growth, reproductive success, and energetics of the euryhaline polychaete *Capitella* sp. I. Journal of Experimental Marine Biology and Ecology. 254(1): 19-35.

Technical Reports

1. ICES. 2018. Interim Report of the Stock Identification Methods Working Group (SIMWG), 7–8 August 2018, Portland, USA. ICES CM 2018/HAPISG:14. 46 pp.
2. Kerr, L. A. 2018. New England Fishery Management Council: External peer review of ecosystem-based fishery management strategy https://www.nefsc.noaa.gov/program_review/2018-review-ebfm/docs/reviewer-reports/final-summary-report.pdf
3. Cadrin, S., Morse, M., **Kerr, L.** Secor, D., and Siskey, M. 2017. Exploratory stock assessment of eastern and western population-of-origin Atlantic bluefin tuna accounting for stock composition. ICCAT Col Vol. Sci. Pap. Vol. 74. SCRS 2017/174.
4. Kerr, L. A. 2017. New England Fishery Management Council: External peer review of herring management strategy evaluation. <http://s3.amazonaws.com/nefmc.org/Final-Peer-review-report.pdf>
5. Morse, M., Cadrin, S., **Kerr, L.**, Secor, D., Siskey, M. Arrizabalaga, H. Hanke, A., and Porch, C. 2017. An updated analysis of bluefin tuna stock mixing. ICCAT Col Vol. Sci. Pap. Vol. 74. SCRS 2017/190.
6. **Kerr, L.**, Morse, M., Cadrin, S, and Galuardi B. 2017. Application of an Atlantic bluefin tuna operating model to generate psuedodata for stock assessment testing. ICCAT Col Vol. Sci. Pap. Vol. 74. SCRS 2017/170.
7. Morse, M., **Kerr, L.**, and Cadrin, S. 2017. Simulation virtual population analysis of mixed Atlantic bluefin tuna stocks. ICCAT Col Vol. Sci. Pap. Vol. 74. SCRS 2017/178.
8. ICES 2017. Interim Report of the Stock Identification Methods Working Group (SIMWG), By correspondence. ICES CM 2017/SSGEPI:14. <https://archimer.ifremer.fr/doc/00396/50716/>
9. ICES. 2018. Report of the Stock Identification Methods Working Group (SIMWG). ICES CM 2016/SSGEPI:16. 49 pp.
10. ICES. 2018. Report of the Stock Identification Methods Working Group (SIMWG). ICES CM 2015/SSGEPI:13. 67 pp.
11. ICES. 2014. Report of the Stock Identification Methods Working Group (SIMWG). ICES CM 2014/SSGSUE:02. 31 pp.
12. Galuardi, B., Cadrin, S.X., **Kerr, L.A.**, Miller, T.J., Lutcavage, M. 2014. Using electronic tag data to provide transition matrices for movement inclusive population models. ICCAT SCRS/2014/177, Madrid.
13. **Kerr, L.A.**, Cadrin, S.X., Secor, D.H., Taylor, N. 2014. Evaluating the effect of Atlantic bluefin tuna movement on the perception of stock units ICCAT SCRS/2014/170, Madrid.

14. Pershing, A.J., Annala, J.H., Eayrs, S., Golet, W., **Kerr, L.A.**, Labaree, J., Mills, K.E., Runge, J.A., Sherwood, G.D., Sun, J.C., Tallack Caporossi, S. 2013. Future of cod in the Gulf of Maine. <http://www.gmri.org/resources/resource-archive/future-cod-gulf-maine>
15. **Kerr, L.A.**, Cadrin, S.X., Secor, D.H., Taylor, N. 2012. A simulation tool to evaluate effects of mixing between Atlantic bluefin tuna stocks. ICCAT SCRS/2012/138, Madrid.
16. Annala, J. and others. 2012. Report of the workshop on stock structure of Atlantic cod in the Gulf of Maine region. June 12-14, 2012, Portsmouth, NH.
17. ICES. 2011. Report of the workshop on the implications of stock structure (WKISS), April 5-7, 2011, ICES Headquarters, Copenhagen. ICES CM 2011/SSGSUE:03. 53 pp.
18. ICES. 2011. Annex 11: Technical minutes of the Arctic and North-Western Review Group (RGANW) 2011. In: Report of the Arctic Fisheries Working Group (AFWG), 28 April - 4 May 2011, Hamburg, Germany. ICES CM 2011/ACOM:05. 659 pp
19. ICES. 2011. Annex 5: Technical minutes of the Arctic and North-Western Review Group (RGANW). In: Report of the North-Western Working Group (NWWG), April 26-May 3 2011, ICES Headquarters, Copenhagen. ICES CM 2011/ACOM:7. 975 pp.
20. ICES. 2009. Report of the workshop on redfish stock structure (WKREDS). ICES CM 2009/ACOM: 37.
21. **Kerr, L.A.**, Secor, D.H. 2009b. Demographic reference points for white perch in Chesapeake Bay. Report submitted to NOAA (NA07NMF4570331).
22. Connelly W., **Kerr, L.**, Martino, E., Peer, A., Woodland, R. 2007. Climate and saltwater sport fisheries: prognosis for change. Report submitted to the FishAmerica Foundation (FAF-6093R).
23. Starr, R.M., Cope, J.C., **Kerr, L.A.** 2002. Trends in fisheries and fishery resources associated with the Monterey Bay National Marine Sanctuary from 1981-2000. 2nd Edition. California Sea Grant College System, La Jolla, CA. 156 pp.
24. Cailliet, G.M., Burton, E.J., Cope, J.M., **Kerr, L.A.** 2000. Biological characteristics of nearshore fishes of California. Report submitted to the Pacific State Marine Fisheries Commission. Available on CD or at <http://www.dfg.ca.gov/mrd/lifehistories/>

TEACHING

Contributing Lecturer: Fisheries Oceanography course, University of Maine, 2015

Instructor: R Training short course, Gulf of Maine Research Institute, 2014

Contributing Lecturer: Stock Assessment course, University of Massachusetts Dartmouth, 2012

Contributing Lecturer: Scientific Writing course, University of Massachusetts Dartmouth, 2011

Contributing Lecturer: Stock Identification course, University of Massachusetts Dartmouth, 2010

Instructor: Ecological Modeling Course, University of Massachusetts Dartmouth, 2009

Teaching Assistant: Fish Biology Course, Chesapeake Biological Laboratory, 2007

Teaching Assistant: Ichthyology Course, Moss Landing Marine Laboratories, 2001

Marine Educator: Roundhouse Marine Studies Laboratory, 1998-1999

Naturalist Assistant: Center for Coastal Studies, 1998

MENTORSHIP

Postdoctoral Mentor:

Lifei Wang, Ph.D.

Samuel Truesdell, Ph.D.

Graduate Committee member:

Molly Morse, M.S. candidate, University of Massachusetts, Dartmouth

Julek Chawarski, M.S. candidate, University of Maine, School of Marine Science

Brenda Rudnicki, M.S. candidate, University of Maine, School of Marine Science

Mathew Siskey, Ph.D. candidate, Stonybrook University

Lisha Guan, Ph.D., University of Maine, School of Marine Science

Doug Zemeckis, Ph.D., University of Massachusetts, Dartmouth

Greg Decelles, Ph.D., University of Massachusetts, Dartmouth

Technical Assistance in Modeling:

Jen Devine, Ph.D., Institute of Marine Research, Bergen, Norway

Clementine Harma, Ph.D., Galway-Mayo Institute of Technology

Benjamin Galuardi, Ph.D. candidate, PhD. candidate, University of Massachusetts, Dartmouth

Brian Gallagher, M.S. candidate, University of Maryland

Internship mentor:

Drew Shane, GMRI summer intern 2018, undergraduate at University of Southern Maine

Chris Mullen, GMRI summer intern 2017, undergraduate at University of Maine, Machias

Grace Roberts, GMRI summer intern 2017, high school student at Cape Elizabeth High School

Tyler Gagne, GMRI summer intern 2016, M.S., University of Massachusetts

Nathaniel Jermain, GMRI summer intern 2014 & 2015, undergraduate at University of Vermont

Miguel Barajas, GMRI summer intern 2013, undergraduate at University of Southern Maine

Lisa Guy, Research Experience for Undergraduates (REU) Summer Program, Chesapeake Biological Laboratory, undergraduate at Salisbury University

Mathew Lusk, REU Summer Program, Chesapeake Biological Laboratory, undergraduate at Longwood University

GRADUATE AND POSTDOCTORAL ADVISORS

M.S. Advisor: Dr. Gregor M. Cailliet, Moss Landing Marine Laboratories

Ph.D. Advisor: Dr. David H. Secor, University of Maryland Center for Environmental Science

Postdoctoral Supervisor: Dr. Steven X. Cadrin, University of Massachusetts Dartmouth

AWARDS AND HONORS

Staff Recognition Award, Gulf of Maine Research Institute (2013)

American Institute of Fisheries Research Biologists (AIFRB) W.F. Thompson Best Student Paper Award (2012)

NSF/WHOI young scientist travel award to attend International Council for Exploration of the Seas (ICES, 2009)

Award for student oral presentation: Annual Tidewater-Mid-Atlantic American Fisheries Society (AFS) Meeting (2007 & 2008)

Skinner Memorial Award: American Fisheries Society (2005 & 2007)

Best Student Poster Award: Monterey Bay National Marine Sanctuary Symposium (2003)

Poster selected for San Jose State University Exhibition of Excellence (2002)

Student award for oral presentation: Sea Grant Graduate Researcher Symposium California and the World Ocean Conference (2002).

SERVICE

Vice Chair, New England Fisheries Management Council Science and Statistical Committee, 2015-present.

Chair of ICES Stock Identification Working Group (SIMWG). 2013-present

U.S. Delegate to International Commission for Conservation of Atlantic Tunas Meetings, 2013- present

River Herring Technical Expert Working Group, member 2014-present

Seminar Series Organizer for Gulf of Maine Research Institute (2017-present)

Theme Session Convener, 2016 American Fisheries Society, Tampa, FL.

Theme Session Convener, 2014 ICES, Copenhagen, Denmark

Theme Session Convener, 2012 World Fisheries Conference, Aberdeen, Scotland.

Co-Chair of ICES Review Group for Artic and North-Western Stocks. 2011.

Co-Chair of ICES Workshop on the Implications of Stock Structure (WKISS). 2011

Reviewer for ICES stock assessments, NOAA Fisheries and the Environment Program Proposals, Virginia Sea Grant Proposal Review Panel, Canadian Journal of Fisheries and Aquatic Sciences, Ecological Applications, Marine Ecology Progress Series, Marine Biology, Estuarine, Coastal, and Shelf Science, Fishery Bulletin, Fisheries Oceanography, Environmental Biology of Fishes, Transactions of the American Fisheries Society, and ICES Journal of Marine Science.

Vote Auditor for the American Fisheries Society (2008-2017)

Seminar Series Organizer for Department of Fisheries Oceanography, UMass Dartmouth (2009 & 2010)

AFS Northeastern Division Representative for the Executive Committee of the Education Section (2010)

President of University of Maryland American Fisheries Society Student Subunit (2005-2007)

Organizer of Graduate Student Skills Workshop at Chesapeake Biological Laboratory (2007)

Participant in Snowbird Charrette in Environmental Research Design (2006)

Mentor in NSF Research Experiences for Undergraduates Program (Summer 2005 & 2007)

Chesapeake Biological Laboratory tour guide/outreach educator (2005-2007)

Treasurer of Moss Landing Marine Laboratories Student Body (2000-2001)

Seminar Series Organizer, Moss Landing Marine Laboratories (2000-2001)

Teacher for LORAX Environmental Education Program, Tufts University (1997)