

AMY E. LESEN

EDUCATION

- **Ph.D.**, *University of California, Berkeley*. Department of Integrative Biology, Spring 2003. Dissertation title: *Benthic foraminifera in San Francisco Bay: environment, ecology and paleoecology*.
 - **B.S.** *University of Massachusetts, Amherst*. Marine Fisheries Biology. Department of Forestry and Wildlife Management, 1994. Outstanding Senior in Fisheries Award, 1994.
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FACULTY POSITIONS

Antioch University, Graduate School of Leadership and Change

- **Professor of Environmental Leadership and Participatory Change**, January 2023-present

Dillard University, Department of Biology, New Orleans, LA

- **Research Faculty, Minority Health and Health Disparities Research Center**, January 2020 – present
- **Associate Professor with tenure**, 2012 – August 2014, January 2020 – December 2022
- **Assistant Professor**, 2007 – 2012
- **Hilton Endowed Chair in Biology**, 2010 – August 2014
- **Biology Department Chair**, 2010 – 2012
- **Biology Department Co-Chair**, 2009 – 2010

Tulane University, New Orleans, LA

- **Tulane School of Social Work, Disaster Resilience Leadership Academy, teaching faculty**, 2017-present
- Tulane ByWater Institute, **Research Associate Professor**, September 2014 – 2020 full-time; 2020 – present affiliated.
- Tulane Environmental Studies Program affiliated faculty member, 2014 – 2020.

Pratt Institute, Biology, Department of Math and Science, Brooklyn, NY

- **Assistant Professor**, 2003 – 2007
 - Member, Critical and Visual Studies program core faculty
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SELECTED PUBLICATIONS

Toolkits and Reports

Preserving Our Place: A Community Field Guide to Engagement, Resilience, and Resettlement: Community regeneration in the face of environmental and developmental pressures. 2019. Authors: Tribal Chief Albert Naquin, Tribal Secretary Chantel Comardelle, Alessandra Jerolleman, **Amy E. Lesen**, Kristina Peterson, Joseph Evans, Erin Tooher, Jeffrey Mansfield, Nathaniel Corum, Nathan Jessee, Joseph Kunkel, Sierra Bainbridge, Amie Shao, Mayrah Udvardi, Tribal Deputy Chief Wenceslaus “Boyo” Billiot Jr., Tribal Councilman Tommy Dardar, Tribal Advisor D  m   “J.R.” Naquin.    2019, **Isle de Jean Charles Biloxi-Chitimacha-Choctaw Tribe**. Available at: <https://tinyurl.com/y5y4ccp9>

Books and Book Chapters (Peer Reviewed)

Lesen AE. Book under contract with Palgrave Macmillan, expected 2025. *Environmental Expertise in Action - Discussions with Publicly Engaged Scientists*.

Lesen AE, (ed). 2015. *Scientists, Experts, and Civic Engagement: Walking a Fine Line*. Routledge, London and New York. ISBN 978-1- 4724-1524-0.

Lesen, AE. 2015. A New Paradigm for Science Communication? Social Media, Twitter, Science, and Public Engagement: A Literature Review. In Lesen, AE. *Scientists, Experts, and Civic Engagement: Walking a Fine Line*. Routledge, London and New York. ISBN 978-1- 4724-1524-0, 111-136.

Naquin, Albert P, **Lesen, AE**, and Kristina J. Peterson. 2015. "We Can't Give Up:" A Conversation About Community Engagement. In Lesen, AE. *Scientists, Experts, and Civic Engagement: Walking a Fine Line*. Routledge, London and New York. ISBN 978-1- 4724-1524-0, 101-110.

Lesen AE. (In press.) "Bayou Bienvenue" and "Pumping Stations" In: Thomas L & Steeby E (eds), *A People's Guide to New Orleans*. University of California Press.

Journal Articles (Peer Reviewed)

O'Donnell KL, Bernhardt ES, Yang X, Emanuel RE, Ardón M, Lerdau MT, Manda AK, Braswell AE, BenDor TK, Edwards EC, Frankenberg E, Helton AM, Kominoski JS, **Lesen AE**, Naylor L, Noe G, Tully KL, White E & Wright JP. 2024. Saltwater Intrusion and Sea Level Rise threatens U.S. rural coastal landscapes and communities. *Anthropocene*, 100427, ISSN 2213-3054, <https://doi.org/10.1016/j.ancene.2024.100427>.

Saltzman Leia Y., **Lesen Amy E.**, Henry Veronica, Cross Hansel Tonya, Bordnick Patrick. 2021. COVID-19 Mental Health Disparities. *Health Security Journal special issue: Systemic Racism and Health Security*. Volume 19 (S1): <https://doi.org/10.1089/hs.2021.0017>.

Lightfoot, E. S., **Lesen, A. E.**, & Ferreira, R. J. 2020. Gender and resilience in Gulf Coast communities: Risk and protective factors following a technological disaster. *International Journal of Disaster Risk Reduction*. Volume 50, <https://doi.org/10.1016/j.ijdrr.2020.101716>.

Liddell JL, Saltzman LY, Ferreira RJ, **Lesen AE**. 2020. Cumulative Disaster Exposure, Gender and the PADM. *Progress in Disaster Science*, 5, 1-7. <https://doi.org/10.1016/j.pdisas.2019.100042>

Lesen, AE, Tucker C, Olson, MG, Ferreira RJ. 2019. 'Come Back At Us:' Reflections on Researcher-Community Partnerships During a Post-Oil Spill Gulf Coast Resilience Study. *Social Sciences 2019*, 8, 8; [doi:10.3390/socsci8010008](https://doi.org/10.3390/socsci8010008).

Melissa L. Finucane, Michael J. Blum, Rajeev Ramchand, Andrew M. Parker, Shanthi Nataraj, Noreen Clancy, Gary Cecchine, Anita Chandra, Tim Slack, George Hobor, Regardt J. Ferreira, Ky Luu, **Amy E. Lesen** & Craig A. Bond. 2019. Advancing community resilience research and practice: moving from "me" to "we" to "3D". *Journal of Risk Research*, DOI: 10.1080/13669877.2018.1517377

Rael R, Peterson AC, Gheresi-Chavez B, Riegel C, **Lesen AE**, Blum MJ. 2018. The distribution and prevalence of rat lungworm (*Angiostrongylus cantonensis*) infection in rodents across post-Katrina New Orleans. *Emerging Infectious Diseases*. <https://dx.doi.org/10.3201/eid2412.180056>

Patel, M.M., Saltzman, L.Y., Ferreira, R.J., **Lesen, A.E.** 2018. Resilience: Examining the Impacts of the Deepwater Horizon Oil Spill on the Gulf Coast Vietnamese American Community. *Social Sciences 7*, 203. <https://doi.org/10.3390/socsci7100203>

Lesen AE, Rogan A, Blum MJ. 2016. Science Communication Through Art: Objectives, Challenges, and Outcomes. *Trends in Ecology and Evolution*. 31(9): 657-660, <http://dx.doi.org/10.1016/j.tree.2016.06.004>.

Gulachenski A, Gheresi B, **Lesen AE**, Blum MJ. 2016. Abandonment, Ecological Assembly and Public Health Risks in Counter-Urbanizing Cities. *Sustainability*. 8(5), 491; [doi:10.3390/su8050491](https://doi.org/10.3390/su8050491).

Lesen AE. 2012. Oil, Floods, and Fish: The Social Role of Environmental Scientists. *Journal of Environmental Studies and Sciences*. 2(3): 263-270.

Lesen AE, Lipps JH. 2011. What Have Natural and Human Changes Wrought on the Meiofauna (Foraminifera) of San Francisco Bay Late Quaternary Estuaries? *Quaternary Research* 76(2).

Lesen AE, Juhl AR and Anderson OR. 2010. Abundance and biomass of heterotrophic microplankton in the lower Hudson River Estuary, USA: Potential importance of naked, planktonic amoebae for bacterivory and carbon flux. *Aquatic Microbial Ecology*. 61(1): 45-56.

OTHER PUBLICATIONS AND MEDIA

Op Ed

Lesen, AE. New Orleans Advocate. *Guest column: Coronavirus will exacerbate existing health inequities*. March 25, 2020.

Selected Media Appearances

Interview on CBS Evening News with Janet Shamlian: *Coronavirus hits poor and minority communities hard in the South*. April 7, 2020.

CURRENT and RECENT GRANT FUNDING and RESEARCH PROJECTS

- Co-PI, National Science Foundation, 2023-2025, **Collaborative Research: Science with the People: Collaborative analysis of government data for policy reach and structural change in environmentally contested regions**, \$379,101.
- Co-PI, (Macalester College, lead institution, John Kim lead PI), Andrew W. Mellon Foundation, 2021-2024, **Mississippi River Watershed: An Immersive Humanities Curriculum** \$1.497 million.
- Lead Principal Investigator. National Science Foundation, Advancing Informal Science Learning Program. 2020-2023 2022. **Studying Scientist-Educator-Artist Collaborations and Participatory Community Learning around Environmental Change and Adaptation**. \$299,893.
- Co-PI: Collaboration with New Orleans community-based organization 7th Ward Healthy Community Services and University of Michigan: **Measuring and Monitoring the Effects of Greening on the Urban Heat Island Effect, Water Uptake, and Social Challenges**. 2017-present.
- Co-Principal Investigator. National Science Foundation, Improvements in Facilities, Communications, and Equipment at Biological Field Stations and Marine Laboratories (FSML) Program, Planning grant. 2018–2019. **Planning for the ByWater Biological Field Station at Carmichael Forest**. \$24,995.
- Sole Principle Investigator. Louisiana Board of Regents, Awards to Louisiana Artists and Scholars (ATLAS) Subprogram, June 2018 – June 2019. **Oral Histories of Scientists at the Boundary: Interdisciplinarity, Public Engagement, and Transformation**. \$46,837.00
- Co-Principle Investigator. National Academies of Sciences, Engineering and Medicine, Gulf Research Program, Co-PI, May 2017 – May 2019: **Supporting the Isle de Jean Charles community resettlement through cross-boundary networks and knowledge synthesis**. \$200,000.00.
- Tulane subaward Principle Investigator. Gulf of Mexico Research Initiative, October 2016 – present. **Consortium for Resilient Gulf Communities**. Lead PI: RAND Corporation with co-PI's from LSU, University of Southern Alabama, Louisiana Public Health Initiative. \$1,402,000 Tulane subaward.
- Sole Principle Investigator. National Science Foundation, Science, Technology and Society Program, August 2013 – August 2017: **Scholars Award: Science in Transformation: Shifting Disciplinary Boundaries and Community-Engaged Scientists**. \$213,869.00.
- Senior personnel. National Science Foundation: August 2013 – February 2018: **Diversity and Disease in a Post-Trauma Human Landscape**. Coupled Natural and Human Systems Program, Lead PI: Michael Blum, Tulane University. \$1,410,363.00.
- Co-Principle Investigator. National Oceanographic and Atmospheric Administration, 2009 – 2012. **Adapting to Future Hurricane Risk Under Climate Change Uncertainty: Developing and Implementing Robust Strategies for a More Resilient New Orleans**. Lead PI: David Groves and Jordan Fischbach, Rand Corporation with co-PI's from UNO, Tulane University. \$380,000.
- Sole Principle Investigator. National Science Foundation, Science, Technology, and Society Program, 2009 – 2010. **Science, Policy, and the Community: A Symposium in Post-Katrina New Orleans**, \$25,000. Organized symposium on academic civic engagement, with thirty participants from academic institutions from across the U.S. and in the Caribbean.

- Sole Principle Investigator. Louisiana Board of Regents, 2009 – 2010. **A Course Module on Southeastern Louisiana Ecosystems: Enhancing Ecology Education in Louisiana For Underrepresented Minority Undergraduate Students.** Award No. 018UG-09, \$16,000.
 - Senior Personnel. Marguerite Casey Foundation, 2009 – 2012. **Developing the Dillard University Center for the Environment and Public Policy.** \$250,000. Co-coordinator of project, worked on developing an environmental science initiative.
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RESEARCH AND ACADEMIC INTERESTS

- Community-based climate and environmental justice, addressing the impacts of natural and anthropogenic environmental change.
 - Health equity, especially in coastal and indigenous communities, and links to environmental factors and climate change.
 - The intersections between coastal cities/coastal communities, environmental risk, environmental and social resiliency, and climate and environmental change.
 - Art-science collaboration, arts-based science education and communication, the arts and climate change.
 - Urban socio-ecology and the interplay between ecological and social dynamics in cities.
 - Scientific and expert civic and community engagement.
 - Use of oral history as a climate and environmental justice research tool.
 - Environmental justice movements and their roles in shaping environmental policy.
 - Ecological sustainability, the role of “green” design and architecture in promoting habitat sustainability and human wellbeing.
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SELECTED THESIS AND DISSERTATION ADVISEMENT

- Antioch University PhD in Leadership and Change:
 - 2024: Anya Poitrowski, *Landscaping Wellness at Work: A Participatory Model for Worker-Centered Health*
 - Advised and mentored numerous graduate (PhD and Masters) and undergraduate students in Tulane University’s City Culture and Community PhD program, Tulane School of Social Work’s Disaster Resilience Leadership Academy program, Ecology and Evolutionary Biology program, and Environmental Studies program.
 - 2015-2016: Co-advisor for undergraduate honors thesis, Tulane University Student Alex Gulachenski, Thesis title: *Abandonment, ecological reassembly and public health risks in counter-urbanizing cities.*
 - April 2014–Fall 2014: External Ph.D. Dissertation Committee Member: Robin Abelson, Ph.D. Candidate in Psychology, Alliant International University California School of Professional Psychology, Dissertation title: *The Psychological Impacts of Climate Change on Women.*
 - Summer 2013: External Ph.D. Dissertation Committee Member: David R. Johnson, Ph.D. in policy analysis, Pardee RAND Graduate School; Dissertation topics: *Improved Methods for Estimating Flood Depth Exceedances Interior to Hurricane Protection Systems; Estimating Surge-Based Flood Risk with the Coastal Louisiana Risk Assessment Model; Using Cost-Effective and Robust Strategies to Assess the Potential for Nonstructural Risk Reduction in Coastal Louisiana.*
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SELECTED TALKS, PANELS, GUEST LECTURES

- Ecological Society of America conference, August 2018. Supporting the Isle de Jean Charles Community resettlement through cross-boundary networks and knowledge synthesis. **Amy E. Lesen**, Chantel Comardelle, Alessandra Jerolleman, Kristina Peterson, Joseph Evans, Joseph Kunkel, Sierra Bainbridge, Amie Shao, Nathaniel Corum, Albert P. Naquin, Erin Tooher, Jeffrey Mansfield and Taylor Sinclair.
- Gulf of Mexico Oil Spill and Ecosystem Science Conference, February 2019. (Oral presentation) Who is a Community? Questioning Community Framing in the Gulf Coast. A. Melendez Salgado, **A. Lesen**, R. Ferreira.
- Gulf of Mexico Oil Spill and Ecosystem Science Conference, February 2019. (Oral presentation) Cumulative Disaster Exposure, Gender and the PADM. J. L. Liddell, L. Y. Saltzman, R. J. Ferreira, **A. E. Lesen**.
- Society for Social Work and Research, January 2019. (Oral presentation) Reflective Scholarship: Evaluation of University-Community Partnerships during a Post-Deepwater Horizon Resilience Study in Louisiana and Alabama. C. Tucker, **A. E. Lesen**.
- Society for Social Work and Research, January 2019. (Oral presentation) Predictors of Individual Resilience a Case Study of the Deepwater Horizon Oil Spill. L. Saltzman, R. Ferreira, **A Lesen**.

- Society for Social Work and Research, January 2019. (Poster). Gender Differences in Exposure and Preparedness in Post-Disaster Settings. Liddell, J. L., Ferreira, R. J., **Lesen, A. E.**, Saltzman, L. Y., Patel, M.M., Melendez-Salgado, A.O., & Lopez, E. A.
- Society for Social Work and Research, January 2019. (Poster). Resilience Among Vietnamese and Non-Vietnamese Individuals Following the Deepwater Horizon Oil Spill. Patel, M. M., Saltzman, L. Y., Ferreira, R. J., **Lesen, A. E.**, Melendez-Salgado, A.O., & Liddell, J. L.
- Gulf of Mexico Oil Spill and Ecosystem Science Conference, February 2018, New Orleans, LA. The Deepwater Horizon Oil Spill - Predictors of Individual Resilience. Co-authors: R. F. Ferreira, **A. Lesen**, J. Liddell, M. Patel, E. Lopez.
- Citizen Science Association, St. Paul, MN, May 2017, Science in Transformation: Stories of Interdisciplinarity and Public Engagement.
- Invited talk: Cary Institute for Ecosystem Studies, Millbrook, NY, March 2017, Urban socio-ecology, interdisciplinarity, and community engagement.
- EcoSummit 2016, August 2016, Montpelier, France. Presentation: Diversity and disease in a post-trauma urban landscape.
- Invited talk: Louisiana State University Libraries, September 2015. Urban Ecology, Interdisciplinarity, and Community-Engaged Science: Towards More Citizen-Driven Environmental Policy?
- Association of American Geographers, April 2015, Chicago. Presentation: Urban Ecology and Science in Transformation: Shifting Disciplinary Boundaries and Community-Engaged Scientists.
- Association of American Geographers, February 2012, New York City. Presentation: Adapting to Future Hurricane Risk Under Climate Change Uncertainty: Developing and Implementing Robust Strategies for a More Resilient New Orleans.
- Association of American Geographers, April 2011, Seattle, WA. *Presentation: The Environment, Culture, Risk, and the Future of Coastal Communities: The Louisiana Example.*
- Invited panelist, panel to discuss the Deepwater Horizon BP oil disaster, Multispecies Salon 3: SWARM, art exhibition and interdisciplinary anthropology event, New Orleans November 2011.
- Invited talk: UC Santa Cruz, Urban Studies Department, October 2010. Climate Change and the Future of Coastal Communities: The Louisiana Example.
- Organization of American Historians Meeting, March 2009, Seattle, WA; Interdisciplinary panel of scientists and historians, presentation on "New Orleans, an Exceptional City?"
- Coastal Cities Summit, Nov 2008; St. Petersburg, FL; panel discussion on Climate Change, History, and Architecture in New Orleans and Louisiana.
- Invited panelist, panel discussion on art, science, and climate change, New Orleans Botanical Garden, with Robert Tannen, Ron Bechet, and John Barnes, spring 2008.
- American Studies Association Annual Meeting 2007; Philadelphia, October 2007. Scientists versus the local community: A case study in pre- and post-Katrina New Orleans, as part of panel, "New Orleans, USA?: Racism, Science, Hurricane Katrina and the Abandonment of a Global City."
- Invited panelist, Pratt Institute, NYC, January 2007, "Is New Orleans a Shrinking City?"

SELECTED PROFESSIONAL, SCHOLARLY, AND CREATIVE ACTIVITIES

- Collaborator and seminar coordinator, Mississippi: An Anthropocene River project in partnership with German and U.S. universities and organizations. 2018-2019.
- Committee Member, United States Virgin Islands Hazard Mitigation Planning Committee, 2018.
- Invited advisory board member for book project, *A People's Guide to New Orleans*, invited by editor Lynnell Thomas, September 2015 – present.
- Invited peer reviewer, National Science Foundation: Science Technology and Society Program 2009, 2013, 2017; Directorate for Education and Human Resources 2014.
- Organized and hosted academic symposium with over 30 participants from the U.S. and abroad, *Walking a Fine Line: Scientists, Experts, and Civic Engagement*, Dillard University, November 2010.
- With artist and Xavier University art faculty member Ron Bechet, environmentally-based painting exhibit and installation, *Ron Bechet: Natural*, Amy Lesen Collaborator, Dillard University Art Gallery, January 21-February 26, 2010.
- Invited facilitator and member, Deep South Center for Environmental Justice Public Policy Task Force, New Orleans, 2009.
- Invited guest on closing night panel discussion for exhibit at Ogden Museum of Southern Art: *Robert Tannen Stardust: Objects, Ideas and Proposals*, invited by the artist, September 2008.

SELECTED PROFESSIONAL DEVELOPMENT ACTIVITIES

- Participant, ATLAS.ti software qualitative research professional training workshop, Corvallis, OR, summer 2017.
 - Trained in oral history research methodologies: Louisiana State University T. Harry Williams Center for Oral History, fall 2013 to fall 2015.
 - Invited participant/member in network for increasing underrepresented minorities in oceanography, Woods Hole Oceanographic Institute, summer 2012 and ongoing.
 - Fellow: Institute for Environmental Communication, Loyola University, New Orleans, fall 2011.
 - Participant: Quality Education for Minorities (QEM) Network, Follow-up Proposal Workshop for the National Science Foundation (NSF)'s Historically Black Colleges and Universities Undergraduate Program (HBCU-UP), Baltimore, MD, November 20, 2010.
 - Participant, STAR (Scientific Teaching, Assessment and Resources) Workshop, LSU Baton Rouge, 5-7 January 2009
 - Participant, "Science-in-society: Teaching and engaging across boundaries," Marine Biological Laboratory (MBL), Woods Hole MA, April 2008.
 - Participant, The Molecules of Life National Dissemination Conference, Faculty Resource Network, Atlanta GA, March 2008.
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TEACHING

Antioch University, PhD Program in Leadership and Change

- **Change Project** – leading Learning Achievement for PhD students, project in researching and leading change at an organization, for PhD students in their first three years before advancing to candidacy.
- **Pro Sem III** – leading weekly seminar for third year PhD students.
- **Power, Politics, and Purpose in Research** – workshop for first year PhD students.
- **Environmental Justice, Research Justice, and Participatory Methods** – workshop for first year PhD students.
- **Listening as Leading** – workshop for first year PhD students, co-led with Dr. Harriet Schwartz.
- **Change Management and Action Research** -- workshop for first year PhD students, co-led with Dr. Mitchell Kusy.
- **Exploring Arts-Based Research Methods for Leadership Inquiry** -- workshop for third year PhD students, co-led with Dr. Fayth Parks.

Dillard University, New Orleans, LA

- **Climate Change Biology.** Developed this course. Upper-level course with labs and field trips
- **Environmental Biology** – Developed this course. Upper-level course with labs and field trips, open to all majors at Dillard.
- **Biology Senior Capstone Research Seminar** – Course Coordinator and Instructor.
- **General Biology** – Freshman level course with several sections and many lab sections, three-hour lab.
- **General Biology Lab for non-majors** – Freshman level course with several sections and many lab sections, three-hour lab.
- **Biodiversity and Conservation** – Developed this course. Senior level course involved labs and field trips.
- **Ecology** – Upper level course with three-hour lab; includes several field trips.
- **Botany** – Sophomore level course with three-hour lab; includes several field trips.
- **Research Methodology Sophomore Seminar.**

Tulane University, New Orleans, LA

- **Environment and Infrastructure – Graduate course** taught in the Tulane School of Social Work's Disaster Resilience Leadership Academy program, about the risks that natural and technological disasters pose to the human environment and the ways that land use, resource use, and environmental policy affect the risks posed by natural and technological disasters.
- **Disaster and Displacement – Graduate course** taught in the Tulane School of Social Work's Disaster Resilience Leadership Academy program, focusing on how disasters and environmental change affect communities and social and ecological aspects of displacement, resettlement, and relocation.

- **Sustainability and Resilience – Graduate course** taught in the Tulane School of Social Work’s Disaster Resilience Leadership Academy program, focusing on the relationship between environmental sustainability and disaster resilience.
- **Global Change Biology** – Undergraduate course taught in Tulane’s Ecology and Evolutionary Biology Department. Explores the biological basis of environmental issues and the changes occurring at a global scale.

Pratt Institute, Brooklyn NY – selected courses taught

- **Port Cities:** Developed and co-taught with Uzma Rizvi, an archeologist. Course addresses the ancient to modern history of port and coastal cities, and the intersection between city-building and ecology. Graduate level course.
- **Marine Biology:** Developed this course. Field-oriented and hands-on course on marine biology, oceanography and ecology for non-science majors. Components of class include many field trips, and reading and homework assignments based on primary literature.
- **The Ecology of Sustainability:** Developed this course. Course for upper level undergraduates and graduate students focusing on the ecological, biological, and oceanographic basis of sustainability and conservation science. Topics include global warming, water and energy conservation, sustainable agriculture, biodiversity, and biomimicry. Guest lectures, field trips, and student presentations are some of the learning tools used.
- **Ecology for Architects:** Developed this course. Required course for architecture majors. Focuses on human ecology, “animal architecture” (how animals build their own dwellings and habitats), systems theory, and “green” architecture and well as fundamental ecological principles.
- **Eco-Metropolis:** Developed this course. Co-taught with social sciences faculty member. Addresses environmental history and ecological setting of cities, and the ways that environmental, social, and cultural factors are intertwined in the ways cities are built and managed, using New York City and New Orleans as case studies.
- **Biology of Color:** Developed this course. Upper level undergraduate and graduate course exploring the physiology of human color vision and how it influences the way we see and make art, how other animals see color and the role of color and color vision in ecology and evolution.
- **Sustainable Design:** Invited guest lecturer and co-teacher.

University of California, Berkeley. Graduate Student Instructor.

- **Introductory Biology for Science Majors:** Taught a three-hour laboratory and a one hour discussion section per week. Curriculum focused on ecology, evolution and plant biology.
- **Biology and Geomorphology of Tropical Islands (interdisciplinary field course in Moorea, French Polynesia):** Semester-long field course at Gump Research Station in Moorea, French Polynesia. Guided students through all stages of independent research projects. Participated in curriculum development, led workshops and gave in-class lectures.
- **Biological Oceanography:** Responsible for a three-hour laboratory per week, supervising student experiments, and in-class lectures.
- **Introduction to the Oceans:** Participated in all aspects of a 200-student introductory oceanography course for non-majors including giving class lectures, holding review sessions, writing exams and extra-credit assignments, and grading.

San Francisco State University/Romburg Tiburon Center for Environmental Studies, Tiburon, CA.

- **Oceanography:** Taught weeklong summer community extension oceanography course. Students consisted of high school teachers, college students and interested community members. Developed course, wrote lectures, organized research cruise on San Francisco Bay, and led laboratory demonstrations.

Campus-wide Teaching Consultant. Graduate Student Instructor Teaching and Resource Center, University of California, Berkeley.

- **Sept 2001-Dec 2002:** Staff graduate student teaching consultant working with Graduate Student Instructors (GSIs) from all departments on campus. Performed classroom video teaching consultations. Lead workshops on pedagogical issues for GSIs. Developed seminars for faculty members teaching with GSIs. Coordinated fall and spring training and orientation conferences for new GSIs. Member of campus Advisory Committee for GSI Affairs.
- **Workshops led:** Anatomy of an Effective Lab Section; Group Work and Other Active Learning Strategies; Maximizing Learning in Discussion Sections; Assessing Teaching and Learning; Orientation Workshop for New Biology GSIs.

Mentorship of undergraduates: Since 1996, mentored and trained hundreds of undergraduates in research; advised undergraduate assistants on career plans, graduate school applications and individual research projects.

RESEARCH EXPERIENCE AND SKILLS

Community-based research and practice: Most of my work fully incorporates non-academic community experts in all aspects of the work. My approaches span the continuum from CBPR to PAR and everywhere in between, depending on the desires of my community partners.

Social sciences: Oral history research methods; qualitative methods; mixed-methods research.

Coastal and marine natural sciences: Coordinated long- and short-term field research projects in a wide variety of disciplines from fish biology to invertebrate and microbial ecology. Participated on research cruises from two days to two weeks in duration. Familiarity with marine and oceanographic field sampling equipment for use in both the benthic and pelagic environments.

SELECTED OTHER WORK EXPERIENCE

University of California, Berkeley. Graduate Student Researcher. 1996-2000.

- Microfossil analysis under advisor, Dr. Jere Lipps.
- UC Museum of Paleontology: Designed and implemented a World Wide Web educational module on the interpretation of fossils for grades 5-8 and 9-12.
- UC Museum of Paleontology: Curated invertebrate fossil collection, organized and curated invertebrate paleontology teaching collection, curated UCMP microfossil collection, organized and curated invertebrate type specimen collection.

Waquoit Bay National Estuarine Research Reserve, Waquoit, MA., Citizen Water Quality Monitoring Coordinator. 1995-1996.

Coordinated groups of citizen water quality monitors of all ages across Cape Cod and Eastern Massachusetts. Provided training to citizen monitors and made data available on the World Wide Web. Participated in community environmental and science outreach and education, wetlands research in salt marshes on Cape Cod, and in public awareness campaigns about the vulnerability of wetland habitat.

National Marine Fisheries Service, Woods Hole, MA. 1994-1995. Fisheries Biologist. .

Field leader of Atlantic Salmon research project. Geographic Information Systems specialist providing geographic analysis and mapping support for stock assessments of Atlantic commercial fish stocks.

Quebec Labrador Foundation (QLF), Ipswich, MA and Conche, Newfoundland. Field Researcher and Community Outreach Coordinator. 1991.

Lived and worked in Newfoundland carrying out research on Atlantic salmon populations for cooperative project between QLF and National Marine Fisheries Service. Hired and trained local community members as research field assistants. Worked with local communities and schools to raise awareness of fisheries conservation. Participated in community development and education.

SERVICE and PROFESSIONAL ACTIVITIES (partial list)

Antioch University Service Activities:

- **Member**, Rank and Promotion Committee, 2024.
- **Member**, Graduate School of Leadership and Change IRB committee, 2023-present.
- **Search committee member**, Environment Studies program, PhD program in Leadership and Change, 2024.

Selected Dillard University Service Activities:

- **Elected Member**, Dillard University Academic Senate Tenure and Promotion Committee, 2021.
- **Elected member**, Dillard Academic Senate Curriculum Committee: 2012-2014, 2020.
- **Coordinator**, Dillard Minority Health and Health Disparities Research Center Symposium, 2020.
- **Coordinator**, Dillard Minority Health and Health Disparities Research Center Scholar-in-Residence Program, 2020-present.
- **Member**, Dillard University COVID Task Force Update - Risk Management and Public Health, 2020-present.
- **Search committee member**, Dillard Biology Department faculty search, 2020
- **Biology Department Chair**, 2010 – 2012.
- **Biology Department Co-Chair**, 2009 – 2010.
- **Chair**, Dillard Academic Senate Curriculum Committee: 2013-2014.
- **Secretary**, Dillard Academic Senate Curriculum Committee: 2012-2013.
- **Co-coordinator**, Initiative to develop Dillard Center for the Environment and Public Policy, 2009- 2010.

Selected Professional Service:

- **Invited organizing committee member:** National Academies of Sciences, Engineering, and Medicine consensus study, "[Criteria for Community Participation in the Gulf Research Program's Enhancing Community Resilience Initiative](#)" (the Encore Criteria Study).
- **Member**, Louisiana Governor's State COVID-19 Health Equity Task Force, 2020-present.
- **Special Issue Co-Editor:** Sustainability Journal, "The Socioecology of Disasters and Infectious Disease." 2020-2021.
- **Editorial Board Member:** Sustainability Journal, 2020-present.
- **Editorial Board Member**, Traumatology an American Psychological Association Journal, 2020 to present.
- **Member**, Insurance Task Force, Greater New Orleans Housing Alliance, 2021-present.
- **Board Member**, A Studio in the Woods, New Orleans, LA, 2012-2018.
- **Member of Nominations Committee**, Association of Environmental Studies and Sciences, 2010 to 2012.
- **Member of Awards Committee**, Association of Environmental Studies and Sciences, 2010 to 2012.

Selected Reviewer Activity:

- **Invited international reviewer**, Dutch Research Council, research grant program.
- **Invited grant proposal review panelist**, National Science Foundation Directorate for Education and Human Resources.
- **Invited grant proposal reviewer**, National Science Foundation Directorate of Social and Behavioral Sciences, Directorate for Education and Human Resources.
- **Invited reviewer**, Oral History Review and Reports of the National Center for Science Education.
- **Invited Peer Reviewer**, Quaternary International Journal, Current Opinion in Environmental Sustainability, Journal of Foraminiferal Research.

Tulane University Service Activities:

- **Member**, Environmental Studies Faculty, Tulane University Environmental Studies Program, 2014-2020.
- **Faculty mentor**, Third Coast Residential Learning Community inaugural year, 2017-2018 academic year.
- **Organizing committee member**, Tulane University Climate Day, 2017-2018.

Selected Community Service:

- **Mental Health Crisis Line Counselor:** 2020-present.
- **Executive Vice President for Education**, Synagogue Shir Chadash, 2016-2018.

- **Member**, Synagogue Shir Chadash Oral History Committee, 2015-2018.
 - **Board of Directors Member**, Synagogue Shir Chadadsh, 2014-2018.
 - **Member**, Synagogue Shir Chadadsh Social Justice Committee, 2013-2020.
 - **Co-coordinator**, Interfaith Passover Seder, Temple Sinai, Spring 2011
 - **Member**, Board of Directors, New Orleans Food Cooperative, 2008-2009.
 - **Member**, New Orleans Food Cooperative, 2007-present.
 - **Volunteer**, New Orleans Jazz and Heritage Festival, 2007, 2008.
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HONORS, AWARDS AND MEMBERSHIPS

- Fellow, Louisiana Board of Regents Awards to Louisiana Artists and Scholars (ATLAS) Subprogram, 2018-2019.
- Hilton Endowed Chair in Biology, Dillard University, 2010 – 2014.
- Advisor of the Year Award, Dillard University, Louisiana Alliance for Minority Participation program, 2012.
- Mentor of the Year Award, Dillard University, Louisiana Alliance for Minority Participation program, 2010.
- Presidential Mini-Grant, Dillard University, 2008, 2009.
- Faculty Development Award, Pratt Institute, 2006
- Mellon Foundation Faculty Research Grant, Pratt Institute, 2004-2005; 2005-2006.
- Postdoctoral Research Fellowship (declined), Woods Hole Oceanographic Institution, 2003
- Peabody Fellowship for Invertebrate Paleobiology, UC Museum of Paleontology, Spring 2003
- Dorothy Palmer Memorial Prize, UC Museum of Paleontology, 2001
- Graduate Student Research Grant, Geological Society of America, 1999 and 2001
- Graduate Student Research Grant, Cushman Society for Foraminiferal Research, 2000
- Outstanding Graduate Student Instructor Award, U.C. Berkeley, 1999

Member: Action Research Network of the Americas, Association for Advancing Participatory Sciences, International Leadership Association
