

MICHELLE LEIGH HARDEE

Center for Teaching Excellence

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EDUCATION

- 2009 Ph.D. **University of South Carolina, Columbia**
 Marine Science, May 2009 (Major Advisor: Dr. Robert C. Thunell), GPA: 4.0
 Dissertation: "A Comparison of Paleoothermometers: Sediment Trap Calibration and Application to Recent Sediments in the Santa Barbara Basin, California"
- 2000 M.S. **University of Charleston, South Carolina, Grice Marine Laboratory**
 Marine Biology (Major Advisor: Dr. Leslie R. Sautter), GPA: 4.0
 Thesis: "Comparison of Pteropod Shell Flux and Oxygen Isotopes at Two Hydrographically Distinct Sites in the Tropical Atlantic"
- 1995 B.S. **Texas A&M University, College Station, Texas**
 Zoology (Invertebrate Zoology and Marine Biology emphasis)
 GPA: 3.699, graduated Cum Laude with Honors
 University Honors Undergraduate Fellows Research Program

PROFESSIONAL APPOINTMENTS

- 2012 – Program Manager for Graduate Programs, Center for Teaching Excellence, Univ. of S. Carolina
- 2012 – Instructor, School of the Earth, Ocean & Environment, Univ. of South Carolina, Columbia, SC
- 2010 – 2011 Adjunct Professor, Dept. of Geology and Environ. Geosciences, College of Charleston, SC
- 2008 – 2010 Postdoctoral Associate and Lab Manager, Dr. E. Sikes Lab, IMCS, Rutgers University, NJ
- 2003 – 2008 Research Assistant, Marine Science Program, University of South Carolina, Columbia, SC
- 2002 – 2008 Teaching Assistant, Marine Science Program, University of South Carolina, Columbia, SC
- 2000 – 2002 Lab Coordinator, Science 101, Coastal Carolina University, Conway, SC
- 1999 – 2002 Marine Science Instructor, Coastal Carolina University, Conway, SC
- 1997 – 1999 Research Assistant, College of Charleston, Charleston, SC
- 1995 – 1997 Teaching Assistant, College of Charleston, Charleston, SC

PROFESSIONAL ACTIVITIES

EDUCATIONAL, PROGRAM, AND CURRICULUM DEVELOPMENT

- **Teaching Assistant Orientation Workshops**, The Graduate School, USC, Spring 2012 – ongoing
- **GRAD 701 – "Teaching Assistant Development" Training Course**, The Graduate School, USC, Spring 2012 – ongoing. Workshops/webinars developed and offered regularly:
 - Active Learning Techniques for Any Discipline
 - Assessing Student Learning
 - Balancing the Roles of Graduate Students
 - Best Practices for Grading Objectively
 - Busting the Myth of Learning Styles
 - Class Lesson Planning
 - Dealing with Disruptive Student Behavior
 - Developing a Course Syllabus, Part 1: Review, Revise, Realign, and Part 2: Planning & Particulars
 - Developing Your Teaching Persona
 - Getting Good Teaching Evaluations
 - Interacting with Students Appropriately & Professionally
 - Leading Good Discussion Sessions
 - Leading a Good Laboratory Section
 - Leading a Good Recitation Session
 - Overcoming Apathy & Maintaining Student Motivation
 - Planning a Good Class Presentation
 - The Tip Jar: Teaching Tips for New TAs
 - Using iClickers in the Classroom: The How-To and Why-To

- What Students Want in Their Online Course (and Need from You)
- Writing a Diversity Statement for the Job Market
- Writing Your Teaching Philosophy for Graduate Students, Parts 1 and 2
- Writing Good Multiple-Choice Questions
- **Preparing Future Faculty Program**, Center for Teaching Excellence, USC, Spring 2012 – ongoing
- **Online Module, “The Neuroscience of Memory, Learning, and Metacognition”**, SC College of Pharmacy, Professional Development program for Student Pharmacists (PHMY 600), Summer 2023
- **Reflective Teaching Practices for Medical Educators (RTPforME)**, Program Partner and Mentor, Summer 2022 (4 USC School of Medicine faculty), Summer 2023 (2 USC School of Medicine faculty)
- **Graduate Teaching Assistant Blackboard How-to Series**, with Casey Carroll, CTE: “Blackboard Fundamentals for GTAs”, “Assessments and Activities in Blackboard for GTAs”, “How to Grade in Blackboard for GTAs”, Fall 2022 and 2023
- **Introduction to Online Teaching for Teaching Assistants (IOTTA) Program**, Aug. 2021
- **Grading and Assessment Toolbox** development, Center for Teaching Excellence, Fall 2020
https://web.qa.sc.edu/about/offices_and_divisions/cte/teaching_resources/grading_assessment_toolbox/
- **Educational Technology Showcase Chair**, Center for Teaching Excellence, USC, 2019, 2020
- **Peer Observation Form development and Resources Toolbox**, Center for Teaching Excellence, Fall 2018, https://web.qa.sc.edu/about/offices_and_divisions/cte/teaching_resources/peer_observation.php
- **Adjunct Teaching Development Workshops**, College of Social Work, USC, Fall 2013 – 2017
- **Marine Science Lab Manual Development**, Marine Science 101 and 102 Lab Manuals, University of South Carolina, 2003 – 2015
- **Geology Lab Manual Development**, History of Life Lab (Honors), Earth History Lab, College of Charleston, 2010 – 2011
- **GK-12 Institute Leader**, Center for Teaching Excellence, University of South Carolina, June 2007
- **Partners in Inquiry (Pi) Fellow**, Center for Teaching Excellence, 2006 – 2007
- **Teacher Quality Collaborative (TQC) Consultant**, Crayton Middle School, 2003 – 2004
- **Lab Coordinator**, Introduction to Science labs, Coastal Carolina University, 2001 – 2002 for non-science majors, 2001 – 2002
- **Assistant Director**, Junior Scholars Program, Coastal Carolina University, Summer 2000
- **Program Leader**, Georgia Torrance Center for Creative Studies “Challenge by the Sea”, Coastal Carolina University, Summer 2000
- **Co-Instructor**, COASTeam Marine Science for Middle School (MS²), College of Charleston, Summer 1999, 2000

INSTITUTIONAL AND PROFESSIONAL COMMITTEE WORK

2021 – present	Communications Subcommittee Chair, Graduate Student, Professional Student, and Postdoctoral Scholar Development (GPPD) Special Interest Group (SIG), Professional and Organizational Development (POD) Network
2021 – present	GPPD SIG Social Media manager, POD Network
2020 – present	GPPD SIG member, POD Network
Fall 2021	Interview Committee, Program Coordinator, Office of Student Conduct & Academic Integrity, USC
Fall 2021	Interview Committee, Graduate Student Advisor, Career Center
2018	Selection Committee, Arnold School of Public Health James A. Keith Excellence in Teaching Award, USC
2018	Member, Sustainability Across the Curriculum Conference Planning Committee
2015 – 2020	Member, Graduate School Professional Development Advisory and Steering Committee, USC
2015 – 2018	Member, Title IX Appellate Board Committee, USC
2015 – 2016	Member and Subcommittee Chair, Interdisciplinary and Professional Development, Provost Blue Ribbon Advisory Committee on Graduate Student Life, USC
2015 – 2016	Chair, Steering Committee, \$tart \$mart Program, The Graduate School, USC

2014 – present	Co-Chair, Coordinators of Large Undergraduate Courses Community of Practice, Center for Teaching Excellence, USC
2014 – 2016	Member, Steering Committee, Graduate Institute for Civic Scholars Program, The Graduate School, USC
2013 – present	Member, Steering Committee, Start Smart Program, The Graduate School, USC
2007 – 2008	Pi Fellowship Advisory Board, Center for Teaching Excellence, USC
2004 – 2008	President, Marine Science Graduate Students Association, USC
2000 – 2001	Marine Science 111/112 Revisions Committee, Coastal Carolina University

REVIEWER AND GRANT MANAGEMENT

2023	<i>POD Speaks Occasional Papers</i> Manuscript Reviewer
2022, 2023	SC Honors College Top Scholar Selection Committee applicant reviewer
2018 – present	Graduate Teaching Assistant Teaching Resource Development Grant Manager, CTE
2018 – present	POD Network Conference Abstract Proposal Reviewer
Fall 2022	GPPD SIG Equity and Outreach Career Development Grant proposal reviewer
Spring 2021	South Carolina Conference on Innovations in Teaching and Learning proposal reviewer
2018	Innovative Pedagogy Teaching Grants Reviewer and Administrator, CTE
2018	Reviewer, Sustainable Magellan Grants for Undergraduates, USC
2016 – present	Presentation judge, Graduate Student Day, Discover USC
2015 – 2021	Oktoberbest Proposal Reviewer, Center for Teaching Excellence, USC

INVITED TALKS AND PRESENTATIONS

- **Invited workshop**, “Developing (or Revising) Learning Outcomes for Your Course”, School of Medicine, Columbia, Mar. 29, 2023
- **Special workshop**, “Evaluating Diversity Statements for Search Committees” with Dr. Michelle Bryan, with the Vice President of Student Affairs Search Committee, May 23, 2022
- **Invited webinar**, “Writing a Diversity Statement” webinar, College of Nursing, Mar. 30, 2022
- **Invited webinar**, “Teaching Large Online Courses Effectively” with Casey Carroll, Center for Teaching Excellence, for College of Information and Communications faculty, Mar. 22, 2022
- **Guest lecture**, “Writing a Diversity Statement for the Job Market”, Mathematics Department Graduate Students, USC, Oct. 2021
- **Guest workshop**, “Writing Your Teaching Philosophy for Faculty”, Fall 2021, 2022, 2023
- **Invited speaker**, “ ‘That was such a great session!’ How To Facilitate Good Training Sessions and Encourage Engagement”, with Jennifer Yowell, Center for Teaching Excellence, for Residential Life Advisors Orientation, July 14, 2021
- **Guest workshop**, “Assessment Charette: A Collaborative Design Workshop” with Lydia Frass, Center for Teaching Excellence, Apr. 2021
- **Guest workshop**, “Writing a Diversity Statement”, Presidential Fellows GRAD 800, Feb. 2021
- **Guest Webinar**, “Working Effectively with Your TAs in Large Online Courses”, with Lydia Frass, College of Arts and Sciences, Summer Enhancement Initiative Webinar, July 15, 2020
- **Invited talk, Last Lecture Series**, “Wonderment, Weirdness, and Life Lessons Found in Teaching About Our Oceans”, Scholars United, SC Honors College, USC, Oct. 2019
- **Invited panelist**, Leadership Discussion Panelist, Graduate Student Association, Feb. 2019
- **Guest workshop**, “International Teaching Assistant Challenges in American Classrooms”, with Terry Goodfellow, English Programs for Internationals, Center for Teaching Excellence, Nov. 2018
- **Invited speaker**, USC’s Sustainability Across the Curriculum Conference (SACC), part of the Association for the Advancement of Sustainability in Higher Education (ASHEE) Regional Sustainability Conference Series, Oct. 2017
 - “Incorporating Active Learning Techniques into the ‘9 Ways of Teaching Sustainability’ ”

- “Working Sustainability Activities into your Syllabus Using Backwards Design”
- **Invited WordPress blog and video**, Graduate School Professional Development program, “Lessons in Teaching”, Fall 2016
- **Invited workshop**, “Professional Development Opportunities at USC”, Health Promotion, Education, and Behavior Seminar, HPEB 704, Mar. 2016 – present
- **Invited workshop**, “Developing Your Teaching Persona” and “Leading Good Class Discussions”, Hospitality Retail and Tourism Management, HRTM 798, Mar. 2016 – present
- **Invited speaker**, “Using Active Learning Techniques to Enhance Instruction.” Professional Development Workshop for Regional Trainers, Children’s Law Center, USC, Jan. 2016
- **Invited speaker**, “Motivating Your Students: Using Active Learning and Research-based Strategies to Encourage Student Interaction.” Florence-Darlington Technical College, Florence, SC., Aug. 2015
- **Invited speaker**, “Effective Teaching in Your Classroom: It’s Not One-Size-Fits-All”, Arnold School of Public Health Exercise Science Seminar Series, Mar. 23, 2015
- **Guest workshop**, “Developing a Course Syllabus”, College Music Teaching – MUED 793, Jan. 29, 2015
- **Invited speaker**, “Controls on Climate and the Complexity of Climate Change,” NSF Research Experience for Undergraduates (REU), Grice Marine Lab, College of Charleston, SC, June 2010 – 2019

PROFESSIONAL DEVELOPMENT / TRAINING

Professional Conference Attendance:

- Teaching and Learning Conference, College of Charleston, online, May 16 – 17, 2023
- Women’s Leadership Institute, University of South Carolina, Apr. 2023, 2019
- Professional and Organizational Development (POD) Network in Higher Education annual conference, Seattle, WA, Nov. 16 – 19, 2022
- POD Network in Higher Education annual conference, online, Nov. 8 – 13, 2021
- Institute for New Educational Developers, hosted online by Claremont College Center for Teaching and Learning, June 28 – 30, 2021
- Graduate Career Consortium Virtual Annual Conference, June 23 – 25, 2021
- REMOTE: The Connected Faculty Summit, hosted online by Arizona State University, June 9 – 10, 2021
- Southern Regional Faculty & Instructional Development Consortium (SRFIDC), online, Mar. 10 – 12, 2021
- POD Network in Higher Education annual conference, online, Nov. 10 – 13, 2020
- REMOTE: The Connected Faculty Summit, online, Arizona State University, July 13-14, 2020
- Southern Regional Faculty & Instructional Development Consortium (SRFIDC), Spartanburg, SC, Mar. 12 – 13, 2020
- POD Network in Higher Education annual conference, November 13 – 17, 2019, Pittsburgh, PA
- South Carolina Conference on Innovations in Teaching and Learning in Higher Education (SCCITL), July 12, 2019, Charleston SC
- POD Network in Higher Education annual conference, Nov. 14 – 18, 2018, Portland, OR
- Conference of Southern Graduate Schools, Charlotte NC, Feb. 18 – 20, 2016, representative for the Univ. of S. Carolina Graduate School
- Conference on Teaching Large Classes, Center for Instructional Development and Educational Research (CIDER), Virginia Tech, Blacksburg, VA, July 2015
- Annual Conference on Higher Education Pedagogy, Virginia Tech, Blacksburg, VA, Feb. 2014

Professional Development Trainings:

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|------|---|
| 2023 | Inclusive STEM Teaching Project Certificate of Completion, EdX courses |
| 2022 | Safe Zone Ally Training (also 2016, 2019), Off. of Multicultural Student Affairs, USC |

2021	Mental Health and Well-Being Competency Certificate of Completion, CTE
Mar. 2019	Incubate Design Challenge Workshop, Incubator for Teaching Innovation, College of Arts & Sciences, USC
2019	Teaching Towards Inclusive Excellence, Certificate of Completion, CTE
2019	Fostering Proactive Learning Environments, Certificate of Completion, CTE
2018	Trans Advocacy Workshop, Office of Multicultural Student Affairs, USC
2018	Green Zone Ally Training, Veterans Affairs, USC
2018	Carolina Intercultural Training (also 2015), International Student Services, USC
2016 – 2018	LEAD and LEAD II Supervisory Essentials Certificate Program
	360 Assessment
	Coaching for Improved Performance
	Communication Skills for Managers
	Conflict Resolution Skills
	Cross-Cultural Communications
	Diagnosing Performance Problems
	Effective Delegation
	Flexible Leadership Basics & Beyond
	Generational Differences in the Workplace
	Interviewing and Selecting Employees
	Managing Employee Performance Using EPMS
	Sexual Harassment Recognition & Prevention
	Team Management
	Unmuted: Illegal Discrimination Training
	Writing Effective Position Descriptions
2010	Participant: “Teaching about Earth’s Climate History: A Workshop for Geoscience Faculty,” American Geophysical Union Conference
2007	Center for Ocean Sciences Education Excellence – SouthEast (COSEE) JOI Workshop, Skidaway Institute of Oceanography, GA

TEACHING EXPERIENCE

University of South Carolina, Columbia, SC

- Teaching Assistant Development, GRAD 701 TA Training Course, Fall 2012 – present
- Oceans and Society Honors, MSCI 210H, Spring 2014 – present
- Environment of the Earth, GEOL 103, Spring 2020, Spring 2021
- Introduction to Geology, GEOL 101, Spring 2018, Spring 2019, Spring 2020
- Oceans and Society, MSCI 210, Fall 2012
- The Ocean Environment Marine Science Lab, MSCI 101L: Fall 2002, 2005 (Honors)
- The Living Ocean Marine Science Lab, MSCI 102L: Spring 2005, 2006, 2008 (Honors)

College of Charleston, Charleston, SC

- SC SpaceGrant Consortium, Geospatial Institute for Students and Teachers in Climate Change (GIST) – Primary Instructor, Summer 2011
- History of Life Lab (Honors), Earth History Lab, Spring 2011, Fall 2011
- Introduction to Marine and Coastal Geology: Fall 1997 – 1999
- Marine Geology Lab: Fall 1997 – 1999
- Introduction to Cellular and Molecular Biology: 1995 – 1997
- Introduction to Evolution, Ecology, and Biology of Organisms: 1995 – 1997

Coastal Carolina University, Conway, SC

- Introduction to Marine Science, Lecture and Lab: Fall/Spring 2000, 2001
- Environmental Geology, Lecture and Lab: Spring 2000, 2001, 2002
- Introduction to Science: Fall 2001, Spring 2002
- Marine Geology Laboratory: Spring 2000, 2001, 2002
- Origin and Evolution of the Marine Environment Lab: Fall 1999, Fall/Spr 2000, 2001, Spring 2002

MENTORSHIP, ADVISING, DISSERTATION AND THESIS COMMITTEES

2022 – 2024 SPARC Grant Second Advisor, Shea Ferguson, Graduate Student in Educational Psychology

	“What motivates students? A mixed methods study exploring teaching assistants’ beliefs about motivation”
2020 – 2023	Ph.D. Dissertation Committee Member, Georgina Anderson, Graduate Student in Biological Sciences, “Characterizing the Concerns of New Graduate Teaching Assistants and the Efficacy of Professional Development Resources Available for Graduate Teaching Assistants”
2021 – 2022	Undergraduate Honors Thesis Director, Cole Dorn, SC Honors College, “Beach Renourishment’s Viability in a Changing Seascape”
2021, 2022	Graduate Women’s Mentorship Initiative, Invited Participant
2020	Mentor, Incubator for Teaching Innovation’s Incubator Pop-Up, College of Arts & Sciences
2019 – 2020	Undergraduate Honors Thesis 2 nd Reader, Anna Perelli-Minetti, SC Honors College, “Deadly Blooms – The Economic Analysis of the Floridian Algae Crisis”
2018, 2019	Bridge-Billinski Fellows Mentor
2018, 2019	Presidential Fellows Mentor
2018 – 2019	Undergraduate Honors Thesis 2 nd Reader, Lauren Vahey, SC Honors College, “Improving Children’s Literacy by Improving the Quality of Reading Instruction They Get Outside the Classroom”
2015 – 2016	Ph.D. Dissertation committee outside member, Aubrey Sejuitt, Counselor Ed. & Supervision, “A Phenomenological Examination of How Student Army Veterans Describe Influencing Factors on Their Post-Service College Application”
2013 – 2014	Women’s Mentor Network, Undergraduate Mentor
Summer 2011	Faculty Mentor, SC SpaceGrant Consortium, Geospatial Institute for Students and Teachers in Climate Change (GIST)
2001 – 2002	Faculty Advisor, Society for the Undersea World, Coastal Carolina University
2000 – 2002	Science 101 Teaching Assistants Faculty Advisor, CCU

HONORS, AWARDS, AND FELLOWSHIPS

2023	Professor of the Year Outstanding Faculty Award, South Carolina Honors College, USC
2020	Certificate of Meritorious Service from USC President Robert L. Caslan – “ <i>For outstanding contributions and exemplary service to the University in support of Future Planning Group activities in response to the SARS-CoV-2, COVID-19 global pandemic.</i> ”
2019	Two Thumbs Up Award , Student Disabilities Resource Center
2016 – 2017	Emerging Leaders Program participant, USC
2004	F. John Vernberg Service Award , Marine Science Program, USC
2006 – 2007	Pi Fellowship, Teaching and Learning Center, USC
2002 – 2006	Dean’s Graduate Fellowship, USC
2002 – 2006	Marine Science Fellowship, USC
1998	Sigma Xi Grants-in-Aid of Research Award, College of Charleston
1998	Grice Marine Biological Laboratory Deep Water Fund Award, College of Charleston
1997	Joanna Fellowship, College of Charleston

COMMUNITY SERVICE

2023	Slocum-Lunz Foundation website development and deployment
2022	Slocum-Lunz Foundation Secretary
2021 – present	Slocum-Lunz Foundation Board Member
2021, 2022	Final Victory Animal Rescue, Foster home and volunteer
2021, 2022	Pawmetto Lifeline Volunteer, Foster home
2018, 2019	Pawmetto Lifeline Volunteer, Bark to the Park
2010	Moderator, National Ocean Sciences Bowl (NOSB), NJ-PA Regional Shore Bowl
2010	Regional Science Fair Judge, Environmental Sciences, North Jersey Regional Science Fair, NJ

2009	Organizing Volunteer, AAUP-AFT Postdoctoral Committee
2007	Science Fair Judge, Sandhills School Science Fair, Columbia, SC
2006 – 2008	Environmental / Geological / Marine Science Tutor, Univ. of South Carolina Athletic Dept., SC
2005 – 2008	Moderator, National Ocean Sciences Bowl (NOSB), SC-GA Regionals
2004 – 2006	Question Writer for Consortium for Oceanographic Research and Education (NOSB)

PUBLICATIONS AND CONFERENCE PRESENTATIONS

EDUCATIONAL DEVELOPMENT

- **Hardee, M.L.** and Anderson, G. 2022. “Amplifying the Silver Lining: TA Training Re-envisioned for Good”. POD Professional and Organizational Development Network in Higher Education annual conference, November 16 – 19, 2022, Seattle, WA (poster).
- Anderson, G., Ryker, K., **Hardee, M.**, and Kathrein, K. 2022. “Understanding the complex teaching-related characteristics of graduate teaching assistants to provide a personalized teaching assistant orientation.” Earth Educators’ Rendezvous, University of Minnesota Twin Cities, July 11 – 15, 2021 (presentation).
- Anderson, G., Ryker, K., and **Hardee, M.** 2021. “Characterizing the Concerns of New Graduate Teaching Assistants and the Efficacy of Professional Development Resources Available for Graduate Teaching Assistants”. Earth Educators’ Rendezvous (online), July 12 – 16, 2021 (presentation).
- **Hardee, M.L.** and Carroll, C.A. 2020. "Cultivating Growth and Success in Graduate Teaching Assistant Development by Building Flexibility into the GTA Training Model". Southern Regional Faculty & Instructional Development Consortium (SRFIDC), Spartanburg, SC, March 12-13, 2020 (presentation).
- Carroll, C.A. and **Hardee, M.L.** 2020. “Planting the Seed for Online Teaching: A Future Faculty Professional Development Approach”. Southern Regional Faculty & Instructional Development Consortium (SRFIDC), Spartanburg, SC, March 12, 2020 (presentation).
- **Hardee, M.L.** and Carroll, C. 2019. “Teaching Centers as a Connectivity Nexus for Graduate Professional Development”, POD Professional and Organizational Development Network in Higher Education annual conference, November 13-17, 2019, Pittsburgh, PA (poster).
- **Hardee, M.L.** and Dunavant, A. 2018. “Changing the GTA Training Model – Building Flexibility into Professional Development”. POD Professional and Organizational Development Network in Higher Education annual conference, Nov. 14 – 18th, 2018, Portland, Oregon (poster).
- **Hardee, M.L.**, Friend, C., and Petkewich, M. 2015. “Using the Community of Practice Model to Encourage Experience- and Resource-Sharing Among Coordinators of Large Undergraduate Courses”. Conference on Teaching Large Classes, Center for Instructional Development and Educational Research (CIDER), Virginia Tech, Blacksburg, VA, July 2015 (poster).
- **Hardee, M.**, Benjamin, S., and Maher, M. 2014. “A Cross-Disciplinary Consideration of Purpose, Placement, and Content of College Teaching Courses for Novice and Future College Instructors”. First Annual Conference on Higher Education Pedagogy, Virginia Tech, Blacksburg, VA, Feb. 2014 (presentation).

MARINE SCIENCE

- **Hardee, M. L.** Benitez-Nelson, C., and Baumann, E. 2022. *The Ocean Environment Lab Manual*. Kendall/Hunt Publishing Co., Dubuque, IA. 4th Edition.
- **Hardee, M. L.** and Benitez-Nelson, C. 2020. *The Living Ocean Lab Manual*. Kendall/Hunt Publishing Co., Dubuque, IA. 4th Edition.
- **Hardee, M. L.**, Sikes, E. L., Popp, B. N., Oswald, L., Arthur, K., and Gier, E. J. 2010. Environmental Controls on Alkenone U^K₃₇ Temperature Reconstructions. *Am. Geophys. Union, 2010 Fall Meeting, Abstract PP23*.

- **Hardee, M.L.** 2009. Calibrating paleoproxies: The reliability of multiple sea surface paleotemperature indicators in the Santa Barbara Basin. Ph.D. Dissertation. University of South Carolina, 2009. Dissertations & Theses: A&I, ProQuest.
- **Hardee, M.L.** and Thunell, R.C. 2007. Alkenone production and $U^{K'}_{37}$ temperature estimates: a time-series study in the Santa Barbara Basin, California. *EOS Transactions, AGU 88(52), Abstract PP43B-1257.*
- **Hardee, M. L.** and Thunell, R. C. 2006. Calibration of the Alkenone $U^{K'}_{37}$ Proxy in the Santa Barbara Basin using Multiple Oceanographic Datasets. *Eos Transactions, AGU 87(52), Abstract PP21C-1723.*
- **Hardee, M. L.** and Thunell, R. C. 2005. An In-Situ Intercomparison of Planktonic Foraminiferal Mg/Ca and Alkenone $U^{K'}_{37}$ Temperature Estimates. *Eos Trans. AGU 86, Abstract PP11B-1452.*
- **Hardee, M. L.** 2000. Comparison of Pteropod Shell Flux and Oxygen Isotopes at Two Distinctly Different Hydrographic Regions in the Tropical Atlantic. Master's Thesis. Charleston: University of Charleston, SC.
- **Hardee, M. L.** and Sautter, L. R. 1998. Seasonal Variations in Pteropod Shell Flux and Oxygen Isotopes at two Hydrographically Distinct Tropical Atlantic Sites. *Eos Trans. AGU, Spring Meet. Suppl. 79, Abstract OS42A-05.*
- **Hardee, M.** and Wicksten, M. K. 1996. Redescription and Taxonomic Comparison of Three Eastern Pacific species of *Muricea* (Cnidaria: Anthozoa). *Bulletin of the Southern California Academy of Sciences* 95(3): 127-140.

RESEARCH EXPERIENCE

Rutgers University, New Brunswick, NJ

Postdoctoral Associate and Lab Manager, 2008 – 2010

- Determination of $U^{K'}_{37}$ alkenone temperature estimates in water column samples off the Chatham Rise, NZ to elucidate the hydrographic controls on temperature proxies as they are produced.
- Examination of relationships between modern $U^{K'}_{37}$ temperature estimates and bulk fluxes in sediment traps to understand translation of signal between modern and paleoceanographic records.
- Determination of alkenone production rates from *in situ* ^{13}C productivity experiment samples, using a Thermo-Finnigan irmGCMS.
- Management of active biogeochemical research lab, including maintenance of a Shimadzu GC-17A and GCMS-2010, ordering and maintaining supplies, equipment, and instruments, training of students, sample management and processing, GC and GC-MS technique and method development.
- Mentoring of students in their research projects, including alkenone biogeochemistry and oceanography, instrumentation and techniques, and data analysis: Graduate student A.L. Hermes, 2009-2010; Undergraduates J. Kleber, K. Mineo, C. Martin, 2008-2010.

University of South Carolina, Columbia, SC

Research Assistant, 2003 – 2008

- Planned and implemented a high-resolution study of an 11-year sediment trap and underlying sediment core time-series in the Santa Barbara Basin to examine the accuracy of climate signal preserved in foraminiferal and coccolithophorid tests.
- Developed *in situ* calibrations and high-resolution paleoceanographic reconstructions of organic and microfossil-based paleoceanographic temperature proxies for the Santa Barbara Basin.
- Performed technical analyses including foraminiferal Mg/Ca and $\delta^{18}O$ using an Inductively Coupled Plasma – Atomic Emission Spectrometer and VG Optima Mass Spectrometer, and coccolithophorid alkenone ratios using Hewlett Packard 5890 Gas Chromatograph with Flame Ionization Detector.
- Performed extensive analyses of large climate datasets utilizing NOAA buoy, CTD, AVHRR, and CalCOFI chlorophyll online datasets.

College of Charleston, Charleston, SC

Research Assistant, 1996 – 1999

- Planned and implemented study to examine seasonal signal preserved in planktonic pteropods and foraminifera in the Cape Blanc upwelling region.

- Speciated and analyzed seasonal shell flux of planktonic foraminifera and pteropods from a sediment trap time-series.
- Performed analyses of pteropod and foraminiferal $\delta^{18}\text{O}$ using a VG Optima Mass Spectrometer.
- Assisted in guiding undergraduate planktonic foraminiferal flux research and analyses.

Ocean Drilling Program, Leg 176

Marine Lab Specialist, Oct. – Dec. 1997, JOIDES Resolution

- Processed and analyzed recovered cores using Multi-Sensor Track system, thermal conductivity sensors, and other instruments.
- Sampled cores for shipboard scientists according to ODP scientific protocol.

Texas A&M University, College Station, TX

Undergraduate Honors Fellow, 1994 – 1995

- Designed independent project analyzing a common coral species for taxonomic classification.
- Research generated new description of *Muricea* species using microscopic spicule structures.

CRUISE EXPERIENCE

- R/V *Tangaroa*, 2009 (Jan-Feb and Oct-Nov), Southern Ocean, two 2-week cruises
- R/V *Yellowfin*, 2002 – 2006 (two cruises/year), Santa Barbara Basin, CA, 2 days each
- NOAA *Ferrel*, 1996 – 1998, numerous day cruises, South Carolina coast
- *JOIDES Resolution*, Leg 176, Oct. – Dec. 1997, Indian Ocean, 60 days
- NOAA *Malcolm Baldrige*, 1996, Southeast coast, 5 days

TECHNOLOGY AND SOFTWARE SKILLS

- Adobe Creative Suite: Illustrator, InDesign, Photoshop, Acrobat Pro
- Squarespace web design
- Blackboard Learning Management System
- Learning Stream Institutional Registration Management
- Google Workspace
- Microsoft Office Suite

MEMBERSHIPS IN PROFESSIONAL ORGANIZATIONS

Professional and Organizational Development Network in Higher Education
American Geophysical Union
The Oceanography Society
South Carolina Marine Educators Association
American Association of University Women

REFERENCES AVAILABLE UPON REQUEST