

Kate Sheehan

1708 Sunset Ave. Santa Barbara, CA 93101

kate.sheehan@glifesci.ucsb.edu

(251)533-0100

EDUCATION

Doctor of Science Wildlife and Fisheries Biology Clemson University	December 2013 School of Agricultural, Forest, & Environmental Sciences Clemson, SC	GPA 4.0/4.0
Master of Science Marine Sciences University of South Alabama	December 2008 College of Arts and Sciences Mobile, AL	GPA 3.8/4.0
Bachelor of Science Biology (Marine): Chemistry University of South Alabama	December 2004 College of Arts and Sciences Mobile, AL	GPA 3.2/4.0

MENTORING EXPERIENCE

Accomplishments of students that I have mentored

- Avian Necropsy and Organ Parasitology** **University of California, Santa Barbara**
September 2014 – Present Santa Barbara, CA
- Mentored 1 student on the protocol of avian necropsy and major organ assessment for parasites
 - Gross external assessment of the condition and morphometric measurements for 36 birds
 - Extensive internal examination of the condition and weight of all organ systems and components
 - Gross organ assessment, sample acquisition for histology and molecular analyses, and wet mounting/organ squashing for parasite identification and enumeration of 18 birds
 - Recovered over 80 parasites and properly preserved for morphological and molecular identification
- Ectoparasites of Shorebirds** **University of California, Santa Barbara**
March 2014 – Present Santa Barbara, CA
- Mentored 2 undergraduate researchers, one graduating and staying on as an intern and assisting in the training of new undergraduate researchers
 - Assessed the 90% effectiveness of removal techniques of ectoparasites from shorebirds
 - Identified attachment-site specificity of lice, finding 3 species unique to shorebirds
 - Developed unique and effective protocols for assessment and storage off a wide variety of birds and bird organ samples
 - Measured the total length, area, and other morphological features of 428 ectoparasite specimen photographs using ImageJ software
- Intestinal Parasitology of Shorebirds** **University of California, Santa Barbara**
March 2014 – Present Santa Barbara, CA
- Mentored 3 students on the assessment of gastrointestinal tracts of 34 shorebirds for parasites
 - Performed gross dissection and glass-plate squashes for 204 samples of GI tract
 - Removed and identified parasites and food object from stomach contents of 37 birds
 - Recovered over 12,000 parasites and preserved for morphological and molecular identification

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Haemoparasites of Californian Birds

March 2014 – October 2014

University of California, Santa Barbara

Santa Barbara, CA

- Mentored 1 undergraduate who stayed on after graduation as an intern
- Fixed, stained, and photographed 216 blood smears of 87 birds from the California coast
- Counted red and white blood cells, cells infected with malaria, and filarial worms in 4213 photos
- Developed and thoroughly documented rigorous protocol for the assessment and identification of malarial parasites in bird blood

Creative Inquiries in Ecology

January 2011 – December 2013

Clemson University

Clemson, SC

- Mentored 46 undergraduate students in field and laboratory studies of freshwater & avian ecology
- Presented findings of research at 1 local, 4 regional, and 1 national scientific conference
- Assisted students to obtain internships through the Creative Inquiry program, REU, and state agencies

Container Inspection

March 2012 – October 2012

USCG Marine Safety Unit Savannah

Savannah, GA

- Mentored 4 petty-officers in support for qualification as USCG Container Inspectors
- Developed a study guide for those learning how to properly inspect shipping containers for declared hazardous materials
- Held study sessions and mock boards and was a boarding official for 1 members certification

Hydrobiid Snail Distribution in AL marshes Dauphin Island Sea Lab

July 2009 – August 2009

Dauphin Island, AL

- Mentored 2 interns in the sampling of hydrobiid snails from 22 marshes along the Alabama coast
- Maintained snails in the laboratory for field experiments
- Designed and built a replicated block design for nutrient enrichment experiments of benthic algae used in survivorship assessments of snails
- Daily monitoring of tidal conditions in local marshes and experiment sites

Pinfish Digestion of Shrimp and Parasites Dauphin Island Sea Lab

June 2008 – August 2008

Dauphin Island, AL

- Mentored 1 REU student on feeding and digestion-rate experiments of pinfish
- Fish exposure to parasitized and unparasitized prey items (grass shrimp) in 2 simulated habitats
- Fish husbandry, feeding and dissection and qualitative identification of digestion rate for food items, proper identification and removal of excysted parasites
- Presented results at local meeting and submitted final report to NSF

Growth Rates of Parasitized Grass Shrimp University of South Alabama

August 2007 – April 2008

Mobile, AL

- Mentored 1 undergraduate student in the collection, husbandry, and measurement of grass shrimp and their exoskeleton molts and mortality
- Kept over 90 shrimp for observation over a 4 month period in flow-through tanks that required regular monitoring, maintenance, and adjustments of salinity
- Measurement of 417 molts using ocular micrometer reticles on a dissecting scope
- Analyzed and prepared term report and travelled 500 miles to present findings at regional conference

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TEACHING EXPERIENCE

Creative Inquiry Mentor Clemson University Ron Johnson
January 2011 – December 2014 Clemson, SC
Mentored 46 students who designed, implemented, assessed, and presented findings of experimental field research projects
Lead discussions of scientific literature to facilitate meaningful learning of ecological concepts
Trained students to use simple field equipment, collect, and process over 1200 field samples
Organized a highly complex field scenario to facilitate rapid acclimation for new students
Presented findings at 3 regional and 1 national meetings with student researchers over 3 years

Biology Teaching Assistant Clemson University T. Kaisa (TK)
January 2009 – June 2012 Clemson, SC
Taught over 450 undergraduate students in basic Biology laboratories
Trained students to use standard biological laboratory equipment and instrumentation
Tested students regularly and developed in-class assignments to test material retention
Provided monthly study sessions for students interested in reinforcing course material

Ecology Teaching Assistant Clemson University David Tonkyn
August 2011-December 2011 Clemson, SC
Brought over 20 students out into the field for weekly to teach ecological concepts in SC
Created study guides and provided tutoring to students in need of extra help out of class
Assigned weekly lab reports that improved overall writing skills of students by over 70%

Mariculture Teaching Assistant Dauphin Island Sea Lab Hugh Hammer
June 2008-July 2009 Dauphin Island, AL
Supported field and lab activities of over 40 students and faculty teaching Marine Aquaculture
Organized field trips to various facilities involved in the culture of various organisms
Proctored and graded assessments of students retention of course material
Gave multiple guest lectures discussing freshwater salmonid operations

Marine Biology Teaching Assistant Dauphin Island Sea Lab Jack O'Brien
June 2009-July 2009 Dauphin Island Sea Lab
Assisted in teaching of field and laboratory techniques of northern Gulf of Mexico research
Brought over 20 students on overnight field trips to display various marine habitats
Demonstrated proper techniques for dissection of fishes to check for parasite infection

Biology Laboratory Instructor University of South Alabama John Freeman
January 2005-May 2005 Mobile, AL
Taught over 80 undergraduate students enrolled in Biological science or pre-med programs
Lead students in a variety of dissections
Trained students to use simple and complex laboratory equipment

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INVITED TALKS AND GUEST LECTURES

- 4.) Sheehan, K. L., R. J. Johnson, G. K. Yarrow. September 2013. The distribution of the Double-crested Cormorant & its parasites. South Carolina. The Wildlife Society Annual Meeting, Columbia, SC.
- 3.) Sheehan, K. L. October 2012. The wild world of parasites. Walhalla Middle School, Walhalla, SC.
- 2.) Sheehan, K. L., J. O'Brien, J. Cebrian. November 2009. Parasites of shrimp in coastal Alabama. Gadsden State Community College, Gadsden, AL.
- 1.) Sheehan, K. L. July 2009. Coldwater aquaculture methodology of salmonids and parasites of cultured fisheries. Dauphin Island Sea Lab, Dauphin Island, AL

OTHER PROFESSIONAL EXPERIENCE

Research Technician

Dauphin Island Sea Lab

Just Cebrian

June 2005-December 2007

Dauphin Island, AL

- Assessed the effects of environmental & human disturbances on coastal habitats
- Worked in field systems that ranged from seagrass to salt marsh
- Practiced field and lab techniques including aquatic metabolic physiology, organism quantification, dissolved nutrient analysis, and fluorometric pigment assessment
- Managed one additional technician and 3 interns, assisted with the research of 7 graduate students and one REU student
- Worked with 2 other laboratory groups and 2 additional institutions on various projects

Lab Technician

Strand Associates, Inc.

January 2005-August 2005

Mobile, AL

- Separated fauna from sediment cores collected by U.S. EPA
- Organized organisms into taxonomic group based on morphological characteristics

Research Assistant

University of South Alabama

January 2005-June 2005

Mobile, AL

- Collected and processed water, insects and snakes for toxicological analysis
- Used bomb digestion to process tissues and organisms with exoskeletons
- Assessed lead concentrations using flame AA instrumentation

Student Researcher

University of South Alabama

January 2004-April 2005

Mobile, AL

- Received a Merck AAAS fellowship to assess blood glucose levels in Gulf pipefish
- Conducted chemical synthesis of fish blood to develop methods for analysis with GC
- Collected fish from the field and maintained them in the laboratory for experimentation

Intern

Northeastern University Marine Science Center

January 2002-May 2002

Nahant, MA

- Maintained more than 10 aquaria and touch feeding animals, cleaning, and testing water
- Assisted graduate student researchers and faculty with research projects
- Worked on board the Research Vessel with trawling and education activities with school groups

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Intern
March 2002-June 2002

Nashua National Fish Hatchery, USFWS
Nashua, NH

- Performed husbandry duties of fish farm feeding and cleaning raceways and holding tanks
- Performed necropsies of diseased fish and prepared gill slides to determine health of young fish
- Performed a system-wide assessment of water quality in the river systems where fish were stocked

Intern
June 2001-September 2001

Sumter Brook Fish Farm
Ossipee, NH

- Performed all duties of caretaker of the property, including fisheries management and property repair
- Taught over 400 children and adults to bait, cast, and retrieve fish from pond on premises
- Educated patrons on the anatomy and ecology of rainbow trout and bird species that eat them

PEER-REVIEWED PUBLICATIONS

† denotes undergraduate students; ‡ denotes graduate students

PUBLISHED

- 6.) Sparks, E. L. ‡, J. Cebrian, P. D. Biber, K. L. Sheehan, C. R. Tobias. 2013. Cost-effectiveness of two small-scale marsh restoration designs. *Ecological Engineering*. 53: 250-256.
- 5.) Sheehan, K.L., K.D. Lafferty, J. O'Brien, J. Cebrian. 2011. Parasite Distribution, Prevalence, and Assemblages of the Grass Shrimp, *Palaemonetes pugio*, in Southwestern Alabama, USA. *Comparative Parasitology*. 78: 245-256.
- 4.) Antón, A., J. Cebrian, K.L. Heck, C.M. Duarte, K.L. Sheehan, M.E.C. Miller‡, C.D. Foster‡. 2011. Decoupled effects (positive, neutral, and negative) of nutrient enrichment on ecosystem services. *Ecological Applications*. 21: 991-1009.
- 3.) Plutchak, R. ‡, K. Major, J. Cebrian, C.D. Foster‡, M.E.C. Miller‡, A. Anton, K.L. Sheehan, K.L. Heck, Jr., S. Powers. 2010. The impact of oyster reef restoration on nutrient dynamics and primary productivity in tidal creeks of the North central Gulf of Mexico. 33:1355-1364.
- 2.) Cebrian, J., G.A. Miller‡, J.P. Stutes‡, A.L. Stutes‡, M.E. Miller‡, K.L. Sheehan. 2009. A comparison of fish populations in shallow coastal lagoons with contrasting shoalgrass (*Halodule wrightii*) cover in the northcentral Gulf of Mexico. *Gulf and Caribbean Research*. 21: 57-61.
- 1.) Cebrian, J., D. Foster‡, R. Plutchak‡, K.L. Sheehan, M. Miller‡, A. Anton‡, K. Mayor, K. L. Heck, Jr., S.P. Powers. 2007. The impact of Hurricane Ivan on the primary productivity and metabolism of marsh tidal creeks. *Aquatic Ecology*. 42(3) 391-404.

SCIENTIFIC REPORTS

Sheehan, K.L. 2007. The effects of nutrient enriched water on the common grass shrimp, *Palaemonetes pugio* and the trematode parasite, *Microphallus turgidus*. Report for American Museum of Natural History. Lerner-Gray Fund for Marine Research. 6 pages.

PUBLICATIONS IN PREPARATION OR REVIEW (manuscript available upon request)

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7. Sheehan, K. L., R. J. Johnson, G. K. Yarrow, B. Dorr, C. Dorr. (in review). Intestinal Parasites of Cullied Double-Crested Cormorants (*Phalacrocorax auritus*). Comparative Parasitology.
8. Sheehan, K.L., J. O'Brien, K.D. Lafferty, J. Cebrian. (in prep). Seasonal variability of trematode infections on Gulf of Mexico island and mainland sites: the role of host size and nutrient toxicity on parasite distribution.
9. Sheehan, K. L. and D. Tonkyn. (in prep). Parasite assemblages of Double-crested Cormorants as indicators of geographically similar subspecies.
10. Sheehan, K. L., S. T. Esswein, B. Dorr, and R. Baldwin. (in prep). Habitat suitability of two subspecies of Double-crested Cormorant, *Phalacrocorax auritus auritus* and *P. a. floridanus*.
11. Sheehan, K. L., R. F. Hechinger. (in prep). Ectoparasites of shorebirds: metabolic theory of ecology of surficial resources.
12. Sheehan, K. L., R. F. Hechinger. (in prep). Haemoparasites of California waterbirds.

PRESENTATIONS AT SCIENTIFIC MEETINGS

44. Sheehan, K. L., R. H. Hechinger. What mites and lice might be doing to shorebirds. 2014. Waterbirds International Conference. La Paz, BC, MX
43. Sheehan, K. L., S. T. Esswein, R. J. Johnson, B. Dorr. 2014. Nesting habitat suitability of two Double-crested Cormorant subspecies are accepted as oral presentations. Waterbirds International Conference. La Paz, BC, MX
42. Esswein, S. T., K. L. Sheehan. Landscape characteristics associated with successful breeding colonies of the Double-crested Cormorant. Ecological Society of America. Minneapolis, MN.
41. Sheehan, K. L., R. J. Johnson, G. K. Yarrow. 2013. Parasite assemblages as useful indicators of host movement. American Society of Parasitologists. Quebec City, Quebec, CA.
40. Sheehan, K. L., R. J. Johnson, G. K. Yarrow. 2013. Intestinal parasites of Double-crested Cormorants culled in the eastern United States. Association of Southeastern Biologists. Charleston, WV. Page 7.
39. Sheehan, K.L., R. J. Johnson, G. K. Yarrow. 2013. Parasites of culled resident and migratory Double-crested Cormorants (*Phalacrocorax auritus*). 15th Annual Wildlife Damage Management Conference. Clemson, SC. Page 3.
38. Gearhart, S. L. †, M. G. Lange†, M. McMillan†, C. Palmer†, M. Phillips†, B. Stocks†, K. L. Sheehan, R. J. Johnson. 2013. Pond depth influences on freshwater benthic communities. Association of Southeastern Biologists. Charleston, WV. Page 55.
37. Begrowicz, A. S. †, C. Brownell†, K. B. Frady†, K. L. Sheehan, R. J. Johnson. 2013. Influence of avian guano on primary productivity in shallow freshwater ponds. Association of Southeastern Biologists. Charleston, WV. Page 55.

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36. Begrowicz, A. S. †, C. Brownell†, K. L. Sheehan, R. J. Johnson. 2013. The role of vegetation in structuring aquatic communities. Association of Southeastern Biologists. Charleston, WV.
35. Adler, C†., A. S. Begrowicz†, M. Chromik†, K. L. Sheehan, R. J. Johnson. 2013. Birding on campus: using citizen science as an introduction to avian research. Association of Southeastern Biologists. Charleston, WV. Page 56.
34. Butts, A. †, K. Frady†, K. L. Sheehan, R. J. Johnson, G. K. Yarrow. 2013. Influence of Double-crested Cormorants in food web productivity in freshwater ponds. 15th Annual Wildlife Damage Management Conference. Clemson, SC. Page 58.
33. Sheehan, K.L. 2012. Parasites of resident and migratory Double-crested cormorants (*Phalacrocorax auritus*). American Society of Parasitologists. Richmond, VA. oral presentation. Page 32.
32. Sheehan, K.L., R.J. Johnson. 2012. Intestinal parasites of resident and migratory Double-crested cormorants (*Phalacrocorax auritus*). Association of Southeastern Biologists. Athens, GA. Oral presentation. Page 147.
31. Davis, W.†, J. Holladay†, M. Kral†, L. Mumma†, D. Saari†, M. Vereen†, B. Williams†, K.L. Sheehan, R.J. Johnson. 2012. Distribution of aquatic organisms in a restored pond system. Southeastern Biology: Association of Southeastern Biologists 73rd Annual Meeting. Athens, GA. poster #21. 59:2, 132.
30. Sheehan, K.L., R.J. Johnson, G. Yarrow. 2012. The wormy world of resident and migratory double-crested cormorants (*Phalacrocorax auritus*). Southeastern Ecology and Evolution Conference. Clemson, SC. Page 7.
29. Sheehan, K.L., P. Jodice. 2011. Intestinal Parasite Assemblages of Double-Crested Cormorants: A Comparison of Three Lake Colonies in Minnesota USA. American Society of Parasitologists. Anchorage, AK. oral presentation. Page 2.
28. Sheehan, K.L., P. Jodice. 2011. Intestinal Parasites of the Double-Crested Cormorant: A Comparison of Three Lake Colonies in Minnesota USA. Natural Resources Student Research Symposium. Clemson, SC. oral presentation. Page 4. ***winner of best presentation award***
27. Sheehan, K.L., P. Jodice, W. Bowerman. 2011. Intestinal Parasite Assemblages of the Double-Crested Cormorant: A Comparison of Three Lake Colonies in Minnesota USA. Waterbirds. Grand Island, NE. oral presentation. Page 15.
26. Anton, A. †, J. Cebrian, K.L. Heck, C.M. Duarte, K.L. Sheehan, M.E.C. Miller†, and C.D. Foster†. 2010. Decoupled effects (positive to negative) of nutrient enrichment on seagrass ecosystem services. Bays and Bayous. Mobile, AL. oral presentation. Page 6.
25. Sparks, E. †, J. Cebrian, K. Sheehan. 2010. *Juncus Roemerianus* Morphology and Colonization in Two Marsh Restoration Designs. Bays and Bayous. Mobile, AL. oral presentation. Page 5.

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24. Jodice, P., W. Bowerman, K. Sheehan. 2010. Double-crested Cormorants as agents of change in ecosystems. South Carolina Cooperative Fish and Wildlife Unit Meeting. Clemson, SC. oral presentation. Page 39.
23. Sheehan, K.L. 2010. Intestinal parasites of the double-crested cormorant (*Phalacrocorax auritus*), in northern Alabama. American Society of Parasitologists. Colorado Springs, CO. poster.
22. Sheehan, K.L. 2010. Intestinal parasites of the double-crested cormorant (*Phalacrocorax auritus*), in northern Alabama. Association of Southeastern Biologists/Southeastern Society of Parasitologists. Asheville, NC. poster.
21. Sheehan, K.L., P.G.R. Jodice. 2009. Impacts of Avian Induced Eutrophication on Parasites. Waterbirds. Cape May. NJ. oral presentation. Page 15.
20. Sheehan, K.L., J. O'Brien, J. Cebrian, P.G.R. Jodice, W.W. Bowerman. 2009. Influence of avian-derived nutrients on trematodes. Clemson Biological Sciences Annual Student Symposium. Clemson, SC. Poster #120. Page 2.
19. Sheehan, K.L., K.D. Lafferty, J. O'Brien, J. Cebrian. 2009. Impacts of avian induced eutrophication on trematode metacercariae. American Society of Parasitologists. Knoxville, TN. oral presentation.
18. Sheehan, K.L., J. O'Brien, J. Cebrian. 2009. Reductions in parasite transmission success: A correlational feedback loop occurring at two coastal rookeries in Southwestern Alabama. Southeastern Ecology and Evolution Conference (SEEC), Gainesville, FL. oral presentation, pg 28.
17. Sheehan, K.L., J. Cebrian, J. O'Brien. 2008. Influence of Environmental Factors on Grass Shrimp Parasites in Alabama. Bays and Bayous Symposium. Gulfport, MS. oral presentation, pg 15.
16. Sheehan, K.L., J. O'Brien, J. Cebrian. 2008. Parasite assemblages of the common grass shrimp along the Alabama gulf coast: seasonal distribution and use as an environmental indicator. American Society of Parasitologists. Arlington, TX. oral presentation, pg 62.
15. Sheehan, K.L., J. Cebrian, J. Valentine, J. O'Brien. 2008. Spatial and seasonal variability of parasite assemblages of the common grass shrimp in Mobile Bay. Meeting of the Association of Southeastern Biologists/Southeastern Society of Parasitologists, Spartanburg, SC. oral presentation #48, pg 17.
14. Schober, J.†, K. Sheehan, J. O'Brien. 2008. Effect of the trematode *Microphallus turgidus*, on growth of the common grass shrimp, *Palaemonetes pugio*, under laboratory conditions. Meeting of the Association of Southeastern Biologists/Southeastern Society of Parasitologists, Spartanburg, SC. poster #43, pg 22.
13. Sheehan, K.L., J. Cebrian, J. O'Brien. 2008. Distribution of parasite assemblages of grass shrimp in Mobile Bay. Southeastern Ecology and Evolution Conference (SEEC), Tallahassee, FL. oral presentation, pg 24.

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12. Sheehan, K.L., J. O'Brien, J. Cebrian. 2008. Seasonal Distribution of Parasite Assemblages of Grass Shrimp in Mobile Bay, AL. University of South Alabama Research Council Spring Forum, Mobile, AL. poster #16, pg 16.
11. Sheehan, K.L., J. O'Brien, J. Cebrian. 2008. Spatial and seasonal patterns of parasite assemblages of grass Shrimp in Mobile Bay, AL. Graduate Student Symposium. Cauvin, LA. poster.
10. Sheehan, K.L., J. O'Brien, J. Cebrian. 2007. Spatial and temporal abundance patterns of the common grass shrimp *Palaemonetes pugio*, and the trematode parasite, *Microphallus turgidus*, in the north central Gulf of Mexico. Meeting for the American Society of Parasitologists, Merida, Mexico. oral presentation #139, pg 21.
9. Sheehan, K.L., J. O'Brien, J. Cebrian. 2007. Spatial and temporal abundance patterns of the common grass shrimp *Palaemonetes pugio*, and the trematode parasite, *Microphallus turgidus*, in the north central Gulf of Mexico. Benthic Ecology Meeting, Atlanta, GA. oral presentation pg 204.
8. Anton, A. †, J. Cebrian, K. Sheehan, M-E. C. Miller†, C.M. Duarte. The effects if eutrophication on the nursery-role and ecological services provided by seagrass meadows. Benthic Ecology Meeting, Atlanta, GA. oral presentation pg 65.
7. Sheehan, K.L., J. O'Brien, J. Cebrian. March 2007. Spatial and temporal abundance patterns of the common grass shrimp *Palaemonetes pugio*, and the trematode parasite, *Microphallus turgidus* around the Mobile Bay, AL. Graduate Student Symposium, Ocean Springs, MS. poster.
6. Sheehan, K.L., J. Cebrian and J. O'Brien. November 2006. Effects of nutrient-rich water on the parasitism of the common grass shrimp, *Palaemonetes pugio* on Gaillard Island, AL. Bays and Bayous Symposium, Mobile, AL. poster
5. Goff, J., K. Sheehan, J. Stutes†, D. Patterson, M. Miller†, D. Foster†, J. Cebrian. November 2006. The impact of tropical storms on the primary productivity and metabolism of shallow coastal lagoons. Bays and Bayous Symposium, Mobile, AL. oral presentation
4. Plutchak, R.†, C.D. Foster†, A. Anton†, K. Sheehan, J. Goff. November 2006. The effects of artificial oyster reefs on primary production and nutrient flow in shallow coastal creeks. Ba ys and Bayous Symposium, Mobile, AL. oral presentation
3. Anton, A. †, D.C. Foster†, K. Sheehan, J. Goff, M.E. Miller†, J. Cebrian. March 2006. The effects of hurricane Katrina on the ecological services provided by seagrass (*Halodule wrightii* and *Rupia maritima*) meadows. Benthic Ecology Meeting, Quebec City, Quebec, Canada. oral presentation.
2. Sheehan, K.L. and J. O'Brien. February 2006. Uptake of Benzo-a-pyrene (BaP) in a host-parasite system with *Palaemonetes pugio* and *Microphallus turgidus*. Graduate Student Symposium, Dauphin Island, Alabama. poster.
1. Sheehan, K. C. Partridge†, A. Boettcher. Effects of environmental estrogens on Syngnathid reproduction. Southeastern Society of Toxicology and Chemistry (SETAC) Conference, Dauphin Island, AL. poster ***winner of best poster award***

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AWARDS/HONORS/AFFILIATIONS

AWARDS

- Professional Enrichment Grant, Clemson Graduate Student Government, June 2013
- Mark Dresden Travel Grant, American Society of Parasitologists, Quebec City, QC, June 2013
- Douglas R. Phillips Award for Graduate Student Excellence, April 2013
- Professional Enrichment Grant, Clemson Graduate Student Government, October 2012
- Professional Travel Award, SEEC Committee, Clemson, SC, March 2012
- Mark Dresden Travel Grant, American Society of Parasitologists, Anchorage, AK, June 2011
- Biological Sciences Graduate Student Association Travel Award, June 2011
- Best Graduate Student Presentation. Natural Resources Research Symposium, April 2011
- Student Travel Award. Waterbirds Conference, March 2011
- Professional Enrichment Grant, Clemson Graduate Student Government, December 2010
- Biological Sciences Graduate Student Association Travel Award, June 2010
- Biological Sciences Graduate Student Association Travel Award, November 2009
- Professional Enrichment Grant, Clemson Graduate Student Government, May 2009
- Graduate Tuition Assistantship Clemson University, January 2009-June 2012
- Lerner-Gray Fund for Marine Research Grant, American Museum of Natural History, 2008
- Marc Dresden Travel Grant, American Society of Parasitologists, Merida, Mexico, July 2008
- Graduate Tuition Assistantship University of South Alabama, May 2006-December 2008
- Marc Dresden Travel Grant, American Society of Parasitologists, Merida, Mexico, June 2007
- Lerner-Gray Fund for Marine Research Grant, American Museum of Natural History, May 2006
- Best poster, SETAC, Southeastern Meeting, February 2005

HONORS

- Session Chair, Ecology. American Society of Parasitologists, Quebec City, QC, June 2013
- Meeting Committee Chair, SEEC, Clemson, SC, March 2012
- Session Chair, Ecology. American Society of Parasitologists, Anchorage, AK, June 2011
- Session Chair, Cormorants and Related. Waterbirds, March 2011
- Graduate Fellowship, Alabama Center for Estuarine Studies, University of South Alabama, 2008

AFFILIATIONS

- Member of the California Academy of Science
- Member of American Society of Parasitologists (Education Committee Member)
- Member of Helminthological Society of Washington
- Member of Southeastern Society of Parasitologists
- Member of Ecological Society of America
- Member of Carolina Birding Club
- Member of Association of Southeastern Biologists
- Past Inductee Phi Kappa Phi Graduate Student Honor Society, Clemson University, October 2010
- Past Member of Natural Resources Graduate Student Association, Clemson University (President 2012-2013, Professional Development Coordinator 2011-2012)

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FUNDING AWARDED

- \$1,000 – Professional Enrichment Grant, Clemson Graduate Student Government, June 2013
- \$4,000 – Undergraduate summer internship stipends to hire 4 student researchers, June 2013
- \$200 – Mark Dresden Travel Grant, American Society of Parasitologists, Quebec City, QC, June 2013
- \$4,850 – Creative Inquiry Travel Award for Undergraduates & Student Mentors, April 2013
- \$3,500 – Creative Inquiry Research Funding, Avian Ecology & Citizen Science, January 2013
- \$4,000 – Creative Inquiry Research Funding, Aquatic Communities, January 2013
- \$640 – Professional Enrichment Grant, Clemson Graduate Student Government, October 2012
- \$1,500 – Creative Inquiry Research Funding, Avian Ecology & Citizen Science, Sep. 2012
- \$4,000 – Creative Inquiry Research Funding, Aquatic Community Assessment & Analysis, Sep. 2012
- \$2,000 – Undergraduate summer internship stipends to hire 1 student researcher, June 2012
- \$3,200 – Creative Inquiry Travel Award for Undergraduates & Student Mentors, April 2012
- \$200 – Professional Travel Award, SEEC Committee, Clemson, SC, March 2012
- \$6,000 – Creative Inquiry Research Funding, Aquatic Communities, January 2012
- \$4,000 – Creative Inquiry Research Funding, Aquatic Community Assessment & Analysis, Sep. 2011
- \$200 – Mark Dresden Travel Grant, American Society of Parasitologists, Anchorage, AK, June 2011
- \$200 – Wildlife Award for Travel, Department of Forestry and Natural Resources, June 2011
- \$400 – Biological Sciences Graduate Student Association Travel Award, June 2011
- \$2,000 – Undergraduate summer internship stipends to hire 2 student researchers, June 2011
- \$100 – Best Graduate Student Presentation. Natural Resources Research Symposium, April 2011
- \$200 – Student Travel Award. Waterbird Society, March 2011
- \$1200 – Creative Inquiry Research Funding, Aquatic Communities, January 2011
- \$840 – Professional Enrichment Grant, Clemson Graduate Student Government, December 2010
- \$400 – Biological Sciences Graduate Student Association Travel Award, June 2010
- \$400 – Biological Sciences Graduate Student Association Travel Award, November 2009
- \$460 – Professional Enrichment Grant, Clemson Graduate Student Government, May 2009
- \$200 – Marc Dresden Travel Grant, American Society of Parasitologists, Merida, Mexico, July 2008
- \$22,500 – Graduate Tuition Assistantship University of South Alabama, May 2006-December 2008
- \$3,000 – Lerner Grey Fund for Marine Research: American Museum of Natural History, June 2008
- \$14,300 – Graduate Student Stipend, Alabama Center for Estuarine Studies, January 2008
- \$200 – Marc Dresden Travel Grant, American Society of Parasitologists, Merida, Mexico, June 2007
- \$3,000 – Lerner Grey Fund for Marine Research: American Museum of Natural History, May 2006

Kate Sheehan

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PROFESSIONAL PROFILE

- Highly motivated researcher with experience in aquatic, toxicological, and parasite ecology
- Highly regarded parasitologist of waterbirds, fishes, and shrimp
- Skilled problem solver with proven leadership properties
- Specialized practical knowledge with nutrient cycling and water chemistry
- Keen interest in the development of new food web and community assemblage modeling techniques
- Adventurous user of statistical methodology for parasite ecology and geographic distribution modeling
- Thrives while collaborating with others in a variety of disciplines
- Strong interest in developing curricula to address the needs of minorities and international students
- Proven spokesperson for human-wildlife conflict able to overcome local and regional biases
- Devoted to the success and well-being of undergraduate and graduate students
- Enthusiastic participant in local, regional, and national scientific associations and committees
- Extremely organized and dedicated to making complex concepts accessible to all students
- Intuitive ability to assess the needs of others while encouraging trust and confidence
- Devoted to the development of other female leaders in science, with strong support for young women

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SKILLS

Research/Instrumentation

Astoria nutrient auto analysis equipment
LICOR (spherical cell), Secchi disc
YSI environmental metering devices 6000 and 6600 series, 85, & 40
WTW dissolved oxygen probes and bench units
HQ-series Hach portable oxygen meters
Fluorometer TD 700, 96-well Spectrofluorometer
Spectrophotometer
HP Gas Chromatographs
GC/MS
Western Blotting with suction plate
Polyacrylamide Gel Electrophoresis
Solid Phase toxicological extraction
TOC 5000 total organic carbon analyzer
Centrifuges of various size and speed
Garmin GPS units
SEM, TEM, dissecting & compound microscopes
ATS Radio telemetry equipment (handheld and logging devices)

Field Sampling & Gear

Eckman benthic grabs,
Cylindrical benthic cores
Trawling, netting, and trapping of animals
Animal collection and handling crabs, insects, parasites, squirrels, waterbirds, passerines

Certifications

Secret Security Clearance (Dept. of Homeland Security)
U.S. DOI Boat Operator Certified
Heart Saver First Aid and CPR (AED)
Community Emergency Response Team (CERT)
Incident Response System Certified (ICS 100-859)
Hazwopper Hazmat Response (HAZWOPPER)
Radiological Detection Technician (RadLevel II)
Response Team Member (RT, USCG)
International Container Inspector (CI, USCG)

Software

R, JMP, Primer, Sigma Stat, Minitab Stats software
ATSWinRec telemetry software
ArcGIS Desktop
Garmin Basecamp
Sigma Plot 12.0 and newer
ImageJ Analysis Software