

KATIE BOWERS

1001 Texas Clipper Road, OCSB 3029, Rm 208 | 409-741-4070 | bowersk@tamug.edu

EDUCATION

- 2011** Louisiana State University—Baton Rouge, LA
M.S., Environmental Science
Minor: Wetland Science & Management
Thesis: “A Look at the Integration of Wetlands & Hazard Mitigation Planning In Coastal Louisiana”
GPA: 4.0
- 2008** Georgia College & State University—Milledgeville, GA
B.S., Biology
GPA: 3.77

WORK EXPERIENCE

- June 2012 – present **Research Associate/Lab Manager** Texas A&M University at Galveston—Galveston, TX
Conduct, overview, and lead environmental field sampling, planning, and protocol implementation for the Lower Neches Restoration coastal marsh project in Port Arthur, TX. Directly assist and supervise all lab analysis and management of biological data while also performing overall lab maintenance and organization.
- November 2011 – June 2012 **Biological Science Technician** US Fish & Wildlife Service—Atlanta, GA
Reviewed biological field notes and data in order to summarize and present data that supports federal action effects on coastal wildlife species with regards to the Gulf Coast Oil Spill cleanup and in coordination with Section 7 of the Endangered Species Act.
- May 2012 (2 week detail) **Resource Advisor** National Park Service—Gulf Breeze, FL
Advised, supervised, and observed crews cleaning up the beach while ensuring all members followed the best management practices in place to protect the natural and cultural resources. Gained knowledge of Gulf of Mexico coastal barrier island ecosystems, shorebirds, sea turtles, beach plants species, and geology.
- August 2009 – November 2011 **Graduate Research Assistant** Louisiana State University—Baton Rouge, LA
Utilized organizational skills, research, and Geographical Information System (GIS) procedures to summarize US Census county and zip code data, historical county data, and Louisiana recreational and fishing permits in coordination with resiliency and vulnerability in communities of Louisiana.
- October 2008 – May 2009 **Intern-Volunteer** US Fish & Wildlife Service—Athens, GA
Directly assisted in the development and implementation of baseline and water quality assessments below dams in GA while also aiding the aquatic ecologist in field investigations to survey newly constructed water culverts and the associated aquatic habitats. Independently developed a GIS file and map showing all mitigation banking projects in GA while also reviewing 404 applications and permits for impacts to streams, wetlands, and T/E species.
- June 2008 – September 2008 **Biological Technician (Intern)** Environmental Protection Agency—Atlanta, GA
Aided in material and research preparation for Children’s Health Month and the Children’s Environmental Health Campaign, which included creating PowerPoints, games, and fact cards in relation to climate change, recycling, and other energy-saving activities. Compiled data from lead files involving permitting research and employee interviews to create flowcharts, logic models, and better organized spreadsheets in Excel.

VOLUNTEER EXPERIENCE

- March 2015 Trash Bash Volunteer (Armand Bayou), *Galveston Bay Foundation*, Houston TX
- February 2015 Moderator for Dolphin Challenge (National Ocean Science Bowl), *Texas Sea Grant*, Galveston, TX
- January 2015 Volunteer planter for dune restoration, *Artist Boat*, Galveston, TX
- March 2014 Trash Bash Volunteer (Reitan Point), *Galveston Bay Foundation*, Galveston, TX
- August 2011-August 2012 Education Outreach Chair, *Coast & Environment Graduate Organization*, Baton Rouge, LA
- 2009-2011 Annual Beach Sweep Volunteer (LSU Lakes), *Keep Baton Rouge Beautiful*, Baton Rouge, LA
Annual Ocean Commotion Volunteer, *Louisiana Sea Grant*, Baton Rouge, TX
Annual Earth Day Volunteer, *Coast & Environmental Graduate Organization*, Baton Rouge, LA
Local Animal Shelter Volunteer, *Friends of the Animals*, Baton Rouge, LA
Jazzfest Children’s Tent Volunteer, *Louisiana Sea Grant*, New Orleans, LA
- May 2011 Outreach Volunteer, *Academic Outreach*, Milledgeville, GA
- 2007 Tutor, *The Boys & Girls Club*, Milledgeville, GA

HONORS/AWARDS

Graduated top 10% of class (LSU & GCSU)
Magna Cum Laude (GCSU)
President's & Dean's List every semester (GCSU)
2009 USFWS Regional Director's Volunteer Award for exceptional work
Graduated Valedictorian (Loganville High School 2004)

CERTIFICATES/TRAINING

March 2015-March 2017 CPR/First Aid/AED, *American Red Cross*
May 2012 Annual GIS Training (Intermediate level), *US Fish and Wildlife Service*
March 2010 IS-22 Certificate, *FEMA*
January 2010 Human Training Certificate, *National Institute of Health*

MEMBERSHIPS

Golden Key International Society (LSU)
Student Wetland Society (LSU)
Coast and Environment Graduate Organization (LSU)
Phi Kappa Phi Honor Society (LSU & GCSU)
Beta Beta Beta Biological Honor Society (GCSU)
Alpha Lambda Delta Honor Society (GCSU)

LABORATORY/FIELDWORK SKILLS

Equipment: spectrophotometer, high performance liquid chromatography (HPLC) machine, Wiley mini-mill, CHN analyzer, microbalance, data loggers (HOBO and level-logger), YSI, SPAD meter, handheld GPS, soil pH meter, fleurometer, compound and dissecting microscopes, trimble unit, mortar and pestle, accelerated solvent extractor (ASE)

Analysis: (1)phosphorus and carbon-nitrogen content for plants and soil (2)inorganic/organic content and grain size of soil (3)fauna, benthic infauna, and submerged aquatic vegetation (SAV) identification (4)total suspended solids and chlorophyll a content in water (5)phytoplankton identification in water and benthic samples using the HPLC machine (6)wetland plant identification, biomass, and percent cover (7)titration using the Winkler Method and calculation of biological oxygen demand (BOD)

Field work: plotting, measuring soil strength and percolation in a wetland environment; collecting and identifying fauna, SAV, above and below-ground plant biomass, water samples, sediment and infauna cores; experience collecting data from air boats along with flat bottomed boats; electro-fishing and seining; creating dune restoration sites

OTHER RELATED SKILLS

Microsoft Word, PowerPoint, Excel, internet and journal researching; constructing grant proposals; NEPA and the Endangered Species Act procedures; survey construction and data analysis; Microsoft Access, Google Docs, ArcGIS, SAS, SPSS, and Munda Analysis (NAIADE)

REFERENCES

Anna Armitage, Associate Professor
Texas A&M University at Galveston, Department of Marine Biology
armitaga@tamug.edu 409-740-4841

Holly Herod, Branch Chief
US Fish and Wildlife Service Headquarters, Branch of Environmental Response & Restoration
Holly_Herod@fws.gov 770-679-7089

Robin Goodloe, Supervisory Biologist
US Fish and Wildlife Service, Ecological Field Office
Robin_Goodloe@fws.gov 706-613-9493 (ext 221)

Melanie Gall, Research Associate
University of South Carolina, Department of Geography: Hazards & Vulnerability Research Institute
Melanie.gall@sc.edu 803-777-9818