

## Rachel L. Croy

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### Education

Louisiana State University Honors College, Baton Rouge, LA May 2018  
Bachelor of Coastal Environmental Science, Environmental Science and Research  
Bachelor of Humanities and Social Science, French  
Current GPA: 3.89

### Experiences

**Student Worker**, Office of Campus Sustainability September 2016 - Present

- Assisted with sustainability efforts across campus
- Managed tracking and input of energy usage data and greenhouse gas emissions campus-wide
- Assisted with management of the LSU Sustainability Student Fund

**Research Assistant**, Pennington Biomedical Research Center May 2016 - Present  
6400 Perkins Rd, Baton Rouge, LA 70808

- Measured and collected data for experiments involving methionine restriction in mice diets
- Handled the breeding of five strains of mice and maintained those colonies for future research projects
- Acquired skills such as genotyping, Western blotting, q-Polymerase Chain Reactions, making cDNA, running a plate via gel electrophoresis and using a Nuclear Magnetic Resonance machine
- Analyzed and visualized data using Prism and Excel

**Residential Assistant**, LSU Department of Residential Life August 2015 - Present  
Miller Hall, Louisiana State University 70803

- Assisted with daily operational procedures such as damage assessment
- Served as the first point of contact in emergency situations
- Identified and reported maintenance and safety concerns
- Organized social events for up to 500 people

**Research Assistant**, LSU Department of Oceanography and Coastal Sciences- John Cross Ph.D Student January 2015 – Present  
Baton Rouge, LA

- Evaluated live and dead matter within above and below ground marsh samples and maintained data records
- Assisted in field research: harvested the marsh grasses and collected soil samples at Rainey Conservation Area
- Identified common species of wetland grasses

**Audubon Zoo Keeper Assistant**, Audubon Zoo May 2015 - July 2015  
6500 Magazine St. New Orleans, LA 70118

- Personally designed and implemented an outdoor enrichment area for the chinchillas, the ferret, and the guinea pigs
- Prepared and distributed diets for forty-plus animals
- Disinfected animal habitats and prevented transmission of zoonotic diseases
- Performed daily health inspections and administered medicine as necessary
- Engaged guests throughout the zoo

**Intern/ Personal Assistant**, Glassworks & Printmaking Studio May 2013 - August 2015  
727 Magazine St. New Orleans, LA 70130

- Maintained organization of the document filing system
- Registered people for art classes offered in the studio
- Gave tours and tutorials for glass blowing, print making, copper enameling, torch working, and metal working
- Assisted in teaching the annual summer camp

**Independent Research Project**, Bayou Sauvage National Refuge August 2011 - December 2012  
New Orleans, LA

- *“The Effects of Seasonal Change on the Vitality of Wetland Plants”*
- Used Remote Sensing technologies such as a spectroradiometer, GPS-capable handheld Trimble Unit, and a SPAD chlorophyll meter
- Measured the correlation between chlorophyll levels, infrared levels, and the senescence of wetland plants

### Volunteer Service

Companion Animal Alliance, Green Society Ben Franklin, Green Light New Orleans, Animal Rescue New Orleans

### Awards

Accepted to Ogden Honors College at Louisiana State University: January 2016  
Dean’s List: Fall 2014 - Spring 2016 (each semester)  
Residential Assistant of the Month: August 2015, September 2016

Certificate in Global Awareness and Engagement from the Global Connections Residential College: May 2015

Chancellor's Honor Roll: Fall 2014, Spring 2015

AP Scholar Award: 2013, 2014

National Merit Corporation Scholarship: 2014- \$4,000

Outstanding Service Award for Green Society: 2013, 2014