

Jordan R. Croy

EDUCATION

University of California, Irvine, CA

Ph.D. in Ecology and Evolutionary Biology

May 2020

Louisiana State University, Baton Rouge, LA

Bachelor of Science, Biology

May 2015

Loyola University New Orleans – New Orleans, LA

Environmental Studies, 31 credits

RELATED COURSEWORK

Population Ecology, BIOL 7080

Statistical Techniques II, EXST 7015

Ecology of Climate Change, BIOL 3900

Independent Research, BIOL 3999—Latitudinal variation in plant tolerance to herbivory

Ecology + Lab, BIOL 4253/4254

GRANTS AND FELLOWSHIPS (Total = \$159,400)

2016-19 \$138,000 Graduate Research Fellowship, National Science Foundation

2015 \$400 Sigma Xi Grant-In-Aid of Research (GIAR) Grant

2014 \$1,000 Tiger Athletic Foundation Undergraduate Thesis Grant

2012-15 ~\$20,000 Taylor Opportunity Program for Students (TOPS) Award

RESEARCH EXPERIENCE

Research Assistant, LSU Department of Biological Sciences- James T. Cronin, Ph.D.

September 2012–Present

Baton Rouge, LA

- Participated in a NSF-funded research project on the biogeography of invasive plant – herbivore interactions
- Maintained common garden of native and exotic genotypes of *Phragmites australis* collected throughout North America
- Assessed damage incurred by various herbivore guilds (chewers, suckers, galls, borers, and miners) and pathogens
- Evaluated latitudinal variation in plant defense strategies to herbivory and the implications for invasion success
- Quantified genotypic and phenotypic variation in plant nutritional, physiological, defense, phenological and fitness traits.

Research Assistant, LSU Department of Biological Sciences- James T. Cronin, Ph.D.

September 2012–September 2013

Baton Rouge, LA

- Participated in a NSF-funded project on the role of age structure and development time on predator-prey population dynamics
- Maintained colonies of the weevil, *Callosobruchus maculatus* (prey) and the wasp, *Anisopteromalus calandrae* (predator)
- Performed population censuses of host-parasitoid mesocosms to assess the effects of experimental changes in the mean and variance in host development time on host-parasitoid population dynamics
- Assessed the evolutionary change in parasitoid oviposition behavior and morphology in response to experimental manipulations of the mean and variance in host development time.

PUBLICATIONS

- [Croy JR](#), Allen WJ, Meyerson LA, JT Cronin. **In preparation**. Latitudinal variation in tolerance to herbivory in native and invasive populations of *Phragmites australis*. *Oikos*.
- Allen WJ, Young RE, Bhattarai GP, [Croy JR](#), Lambert AM, Meyerson LA, Cronin JT. 2014. Multitrophic enemy release of introduced *Phragmites australis* genotypes and gall-forming *Lipara* spp. in North America. *Biological Invasions*: **Published**.
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PROFESSIONAL PRESENTATIONS (*presentation speaker)

- [Croy JR*](#), Allen WJ, Meyerson LA, JT Cronin. 2015. Latitudinal variation in tolerance to herbivory in *Phragmites australis*. June 30. Presentation at Shandong University, Shandong, China.
- [Croy JR*](#), Allen WJ, Meyerson LA, JT Cronin. 2015. Latitudinal variation in tolerance to herbivory in *Phragmites australis*. Society of Wetland Scientists Annual Meeting, June 1-4, Providence, RI.

- Allen WJ,* Young RE, Bhattarai GP, Croy JR, Lambert AM, Cummings D, Anderson J, Meyerson LA, Cronin JT. 2014. Latitudinal gradients in herbivory of gall-forming *Lipara* spp. on native and exotic genotypes of *Phragmites australis*. Ecological Society of America Annual Meeting, August 10-16, 2014, Sacramento, CA.
- Allen WJ*, Young RE, Bhattarai GP, Croy JR, Meyerson LA, Cronin JT. Latitudinal variation in tri-trophic interactions associated with native and exotic genotypes of *Phragmites australis*. Entomological Society of America Annual Meeting, November 10-13, 2013, Austin, TX.

PROFESSIONAL MEETINGS ATTENDED

2015 Society of Wetland Scientists Annual Meeting, Providence, RI
 2014 Ecological Society of America Annual Meeting, Sacramento, CA
 2013 Ecological Society of America Annual Meeting, Minneapolis, MN

PROFESSIONAL SOCIETIES

ESA - Ecological Society of America, 2013 - present

EDUCATION AND COMMUNITY OUTREACH

Orange County Society for Conservation Biology **January 2016-Present**
 Irvine, CA

I am a board member for [OCSCB](#) working on engaging the community in discussions about conservation through our Fall Conservation Cafe and with restoration projects through our Spring Restoration Series. We focus on leveraging local resources to foster discourse and action regarding environmental change.

Presentation to Sagehill High School: “A day in the life: A Graduate Student’s Perspective” **January 20th, 2016**
 Irvine, CA

Presented on life in science as a graduate student to give young high school students a perspective on conducting research in the biological sciences.

Systematics, Evolution, and Ecology (SEE) Seminars **August 2013-February 2015**
 Baton Rouge LA

The Systematics, Ecology and Evolution Division of the Department of Biological Sciences hosts a weekly seminar series. I was responsible for setting up the audiovisual presentations and all preparations for the seminar. Met all of the invited seminar speakers and learned about the diverse research topic being studied around the country

Seasonal Entomologist, Audubon Butterfly Garden and Insectarium **May 2012–August 2012**
 New Orleans, LA

Maintenance and husbandry of butterfly colonies; gave presentations at educational booths on butterfly and insect life cycles, and the edibility, diversity, and adaptations of insects; Gained experience in insect anatomy, taxonomy, evolution, and ecology, and learned about the social impacts of insects.

NOLA Green Roots **September 2011-December 2011**
 New Orleans, LA

Volunteered in an organic community garden servicing the plants and compost as part of a larger effort to provide local youth, low-income residents, and senior citizens the knowledge and tools to grow fresh fruits and vegetables at a low cost.

UNDERGRADUATES MENTORED (13)

UC Irvine—7 undergraduate students and 1 high school student mentored
LSU—5 undergraduate students mentored

TECHNICAL SKILLS

- Data analysis with JMP, SPSS, SAS, and SYSTAT
- Fluent in Excel
- Silicon analysis in wetland grasses