

# Sean F. Ryan

Department of Biological Sciences  
University of Notre Dame  
(408) 391-5960  
[sryan6@nd.edu](mailto:sryan6@nd.edu)

---

## *Education*

2010 – present	PhD candidate University of Notre Dame
2008 - 2010	M.S. in Ecology and Evolutionary Biology Bowling Green State University, OH
Spring 2007	B.S. in Conservation/Organismal Biology (emphasis in Entomology) San Jose State University, San Jose, CA

---

## *Professional Experience*

10/18/2012	Public lecture at the Potawatomi Conservatories, Mishawaka IN. Title of talk: “Plant chemistry and insect choices: How experience may alter an ‘herbivore's dilemma’”
Spring 2011	Guest lecturer for Dr. Micheal Ferdig’s class “Genomics: Sequence to Organism” (topic: Genome Wide Association Studies)
2011	Attended Workshop 5: Coevolution and the Ecological Structure of Plant-insect Communities (April 4-7, 2011) at the Mathematical Biosciences Institute of Ohio State
2012	BGSO activities coordinator
2010 - Present	Eco-Sustainability Officer of Ecological Society of America Student-Section <a href="http://www.esa.org/students/section/node/401">http://www.esa.org/students/section/node/401</a>
2010	Co-organizer 2010 Ecological Society of America Annual conference workshop "Drought, water-ecosystem services, and environmental justice: case studies and research needs in a changing world"
2009 – 2010	Film Director Ecological Society of America Student-Section
2008 - 2012	Teaching assistantships

Lecture TA  
(UND) BIOS 30312: General Ecology – 1 section

## Lab TA

(UND) Biol 1162: Biological Sciences II – 2 sections

(BGSU) Biol 101: Environment of Life – 5 sections

(BGSU) Biol 420: Animal behavior – 1 section

(BGSU) Biol 204: General biology – 2 sections

4/08 - 8/08	Biological Technician Dr. Jessica Hellmann's lab
6/07-9/07	Biological Technician USDA, Eldorado National Forest Service
6/06-9/06	Biological Technician California Department of Food and Agriculture

---

## Research

### Papers

**Ryan, S., & Bidart-Bouzat, G.** Intraspecific variation in natal plant secondary chemistry leads to plasticity in Lepidopteran oviposition behavior. In review

**Ryan, S., & Lambrecht, S.** 2011. Seed soaking and age play a factor in heat-stimulated germination of two maritime chaparral *Ceanothus* (Rhamnaceae) species. *Fremontia*.

### Posters

**Ryan, S., & Hellmann, J.** Recent climatic warming may be leading to discordant shifts in wing morphology in a butterfly hybrid zone. Ecological Society of America. Portland, OR (August 2012)

**Ryan, S., & Bidart-Bouzat, G.** Intraspecific Variation in Natal Plant Genotype Chemistry Influences Oviposition Preferences of a Generalist and Specialist Moth Species. Ecological Society of America Annual Meeting. Pittsburgh, PA (August 2010)

**Ryan, S., & Bidart-Bouzat, G.** The effect of variation in the chemical profile of *Arabidopsis thaliana* on the fitness of a generalist and specialist moth species. Ohio Plant Biotechnology Consortium Conference. Ohio State, OH (November 2009)

**Ryan, S., Baxter, E. & Lambrecht, S.** Effects of moisture and heat on the germination and of two *Ceanothus* species (Rhamnaceae). California Native Plant Society Conservation Conference: Strategies and Solutions. Sacramento CA (January 2009)

## *Awards*

- 2012 Sigma Xi Grants-in-Aid of Research  
“Assessing the impacts of recent warming on the functional genetics of a butterfly hybrid zone”  
(\$600)
- 2012 Department of Biological Sciences, University of Notre Dame  
Matching research funds  
(\$500)
- 2012 Outstanding Graduate TA Award (Kaneb Center, University of Notre Dame)  
(\$150)
- 2011 Awarded travel funds to attend Workshop 5: Coevolution and the Ecological Structure of Plant-Insect Communities (April 4-7, 2011) at the Mathematical Biosciences Institute at Ohio State
- 2010 NSF travel grant (DEB-0939500) for "Drought, water-ecosystem services, and environmental justice: case studies and research needs in a changing world"  
(\$2,000)
- 2010 BGSU travel grant  
(\$350)
- 2010 “People’s choice award” for my photograph in the Ecological Society of America’s Student Section annual photo contest  
<http://www.esa.org/students/section/node/396>  
(\$150)
- 2009 Sigma Xi Grants-in-Aid of Research  
“Investigating how intraspecific changes in natal host chemistry affect host selection of a generalist and specialist herbivore: a test of the chemical legacy hypothesis using transgenic *Arabidopsis thaliana* genotypes”  
(\$790)
- 2009 2<sup>nd</sup> place in California Native Plant Society poster competition  
(\$300)
- 

## *Additional Volunteer Work*

### **Graduate**

- Aug 2012 Bioblitz in Pittsburgh PA  
[http://www.esa.org/applied/ESA\\_Applied\\_Ecology\\_Section/2010\\_bioblitz.html](http://www.esa.org/applied/ESA_Applied_Ecology_Section/2010_bioblitz.html)

### **Undergraduate**

- Spring 08 Lab assistant for Biology 1 (Plant Biology)

12/06-3/07 Red-legged frog research (Dr. Jerry Smith)  
2/07-5/07 Aquatic insect diversity survey for the USGS  
7/05-9/05 Alternatives to pesticides research (University of California Santa Cruz; PI: Dr. Janet Bryer)  
7/05-10/06 Cataloged the entire San Jose State University insect and bird collection

---

***Leadership Activities***

2009-2010 President of the Biological Graduate Student Association  
2006-2008 President of the San Jose State University Entomology Club

***Professional Societies***

Union of Concerned Scientists  
Ecological Society of America  
California Native Plant Society