

Dr. Brett M. Seymoure
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EDUCATION

Ph.D., **Arizona State University**, Tempe, AZ

Biology, June 2016

“*Heliconius* Mimicry Rings in a New Light”

Committee: Ronald Rutowski (Co-chair), Kevin McGraw (Co-chair), W. Owen

McMillan, Stephen Pratt, Juergen Gadau

B.S., **Alma College**, Alma, MI

Biology Major and Chemistry Minor, 2005-2009

Magna Cum Laude, with Honors

“Light habitat variation and reflectance patterns of the Painted Turtle, *Chrysemys picta*”

APPOINTMENTS

Night Skies Postdoctoral Research Fellow, Colorado State University and the National Park Service, Fort Collins, CO (July 2016 – Present)

Arizona State University Graduate Fellow, Arizona State University, Tempe, AZ (2015-2016)

Smithsonian Tropical Research Institute and Arizona State University Fellow, Gamboa, Panama (2013-2014)

Co-director of Graduate Partners in Science Education, Arizona State University, Tempe, AZ (2011-2012)

PUBLICATIONS

Peer-Reviewed Journal Articles

*shared first authorship; †undergraduate authorship

9. Turlure C, Schtickzelle N, Van Dyck H, **Seymoure BM** & Rutowski RL. 2016. Flight morphology, compound eye design and dispersal in butterflies: an inter- and intraspecific comparison. *PLoS ONE*, 11(6):e0158073.

8. Thurman T* & **Seymoure BM***. 2016. A bird’s eye view of two mimetic tropical butterflies: coloration matches predator’s sensitivity. *Journal of Zoology*, 298: 159-168.

7. Brashears J, Aiello A & **Seymoure BM**. 2016. Cool bands: Wing bands decrease rate of heating, but not equilibrium temperature in *Anartia fatima*. *Journal of Thermal Biology*, 56: 100-108.

6. **Seymoure BM**, McMillan WO & Rutowski RL. 2015. Peripheral eye morphology in *Heliconius* butterflies: interspecific variation in corneal surface area and fact

diameters not related to mimicry rings. *Journal of Research on the Lepidoptera*, 48: 83-92.

5. Hutton P*, **Seymoure BM***, McGraw KJ, Ligon R* & Simpson R*. 2015. Dynamic Color Communication. *Current Opinions in Behavioral Sciences*, 6: 41-49.
4. **Seymoure BM** & Aiello A. 2015. Keeping the band together: Evidence for false boundary disruptive coloration in a butterfly. *Journal of Evolutionary Biology*, 28: 1618-1624.
3. Bergman M, Lessios N, **Seymoure BM** & Rutowski RL. 2015. Mate detection in a territorial butterfly – the effect of background and luminance contrast. *Behavioral Ecology*, 26: 851-860.
2. Kikuchi D, **Seymoure BM** & Pfennig D. 2014. Mimicry's palette: widespread use of conserved pigments in the aposematic signals of snakes. *Evolution and Development*, 2: 61-67.
1. **Seymoure BM**, Moeller K, Borchert J, Stahlschmidt A & Ganesh T. 2013. Our Watery World. *Science Scope*.

Articles Submitted/In Review

- Seymoure BM**, †Raymundo A, McGraw KJ, McMillan WO, & Rutowski RL. In Review at *Current Zoology*, January 2017. Environment dependent survival of cryptic and aposematic butterflies.
- Jones B, Comi T, Loew E & **Seymoure BM**. In Review at *Journal of Comparative Physiology A*, March 2017. Species and sex differences in eye morphology and visual sensitivity of nocturnal sweat bees (*Megalopta* spp., Hymenoptera: Halictidae).
- Seymoure BM**, †Fergus AR & Clark DL. Submitted to *Functional Ecology*, March 2017. Visual traits are conspicuous or cryptic dependent upon prey availability, habitat, and intended viewer in sheet-weaving spiders.
- Seymoure BM**, Loew E, McMillan WO, McGraw KJ & Rutowski RL. Submitted to *Functional Ecology*, March 2017. *Heliconius* mimicry rings in a new light: Light environment drives coloration, behavior and vision.

Popular Articles

- Seymoure BM** & Thurman T. 2016. Author Spotlight. *Journal of Zoology Blog*.
<https://jzoblog.wordpress.com>
- Seymoure BM**. December 2013. Is it easy being green? *Ask a Biologist*.
<http://askabiologist.asu.edu/plosable/poison-dart-frogs>
- Seymoure BM**. May 2012. Mimicry in a new light. *Audubon Wrendition*.

PRESENTATIONS

† denotes undergraduate authorship

Invited Seminars

- Seymoure BM**. 2017. Mimetic butterflies prefer light environments that correspond to visual sensitivities and microhabitat. National Center for Biological Sciences, Bangalore, India.
- Seymoure BM**. 2017. The dark side of light: Consequences of light pollution. Front Range Student Ecology Symposium, Colorado State University, Fort Collins, Colorado.

- Seymoure BM.** 2016. Productive Peregrinations from Panama to Postdoc: How Alma Research Experiences Prepare Pupils. ASPIRE Keynote, Alma College, Alma, Michigan.
- Seymoure BM.** 2016. *Heliconius* mimicry rings in a new light: Light environment effects on mimicry, behavior, and vision. Colorado State University, Fort Collins, Colorado.
- Seymoure BM.** 2016. Visual ecology in a new light: Light environment effects on mimicry, behavior, and vision. Rhodes College Seminar, Memphis, Tennessee.
- Seymoure BM.** 2014. Sex, flight and segregation: Natural History of Panamanian Butterflies. Gamboa Rainforest Resort. Gamboa, Panama.
- Seymoure BM.** 2013. Shedding light onto *Heliconius* mimicry rings. Alma College, Alma, Michigan.
- Seymoure BM.** 2012. Butterfly erotica and *Heliconius erato*. Nina Mason Pulliam Rio Salado Audubon Center, Phoenix, Arizona.

Invited Panel Member

- Seymoure BM.** 2013. Getting into Graduate School. National Science Foundation PRISM Program. Alma College, Alma, Michigan.

Conference Workshops

- Seymoure BM & Stankowitch T.** 2016. The diversity of warning signals and aposematism. International Society for Behavioral Ecology Post Symposium on Anti-Predator Defenses. Penryn, United Kingdom.

Conference Seminars

- Seymoure, BM, Lessios N, Pegram K & Rutowski RL.** 2016. Oh say can you see: Perceived properties of warning signals by dawn's early and changing light. Guild of Rocky Mountain Ecologists and Evolutionary Biologists. Crested Butte, Colorado.
- Seymoure BM.** 2016. Keeping the band together: evidence for disruptive coloration in a butterfly. International Society for Behavioral Ecology Post Symposium on Anti-Predator Defenses. Penryn, United Kingdom.
- Simpson RK, Moeller K & **Seymoure BM.** 2016. Conspicuousness of the venomous Gila monster changes with age. International Society for Behavioral Ecology Post Symposium on Anti-Predator Defenses. Penryn, United Kingdom.
- Seymoure BM, Loew ER, McMillan WO, McGraw KJ & Rutowski RL.** 2016. Mimetic coloration, behavior and vision corresponds to light environment. International Society for Behavioral Ecology Conference. Exeter, United Kingdom.
- Seymoure, BM, Lessios N, Pegram K & Rutowski RL.** 2016. Oh say can you see: Perceived properties of warning signals by dawn's early and changing light. International Conference for Animal Behavior Society. Columbia, Missouri.
- Seymoure BM, †Olzer R, Orpet RJ, Loew ER, McMillan WO, McGraw KJ & Rutowski RL.** 2016. Vision, Behavior, and Coloration Matches Light Environment in Neotropical Butterflies. Living Light Conference. San Diego, California.
- Seymoure BM & Thurman T.** 2015. Mimicry is in the eye of the beholder: *Heliconius sara* and *Mimoides pausanias*. Tenth International Conference on *Heliconius*. Gamboa, Panama.
- Seymoure BM, †Olzer R, McMillan WO, Loew ER, McGraw KJ & Rutowski RL.** 2015. *Heliconius* in a new light: Mimicry rings, light environment and proximate

- mechanisms. International Conference for Animal Behavior Society. Anchorage, Alaska.
- Rutowski RL, Lessios N, **Seymoure BM** & Pegram K. 2015. The behavioral ecology of iridescent signals. International Conference for Animal Behavior Society. Anchorage, Alaska.
- Seymoure BM**, McMillan WO & Rutowski RL. 2014. *Heliconius* in a new light: Mimicry rings, light environment and proximate mechanisms. International Conference for Biology of Butterflies. Turku, Finland.
- Seymoure BM**, McMillan WO & Rutowski RL. 2014. *Heliconius* in a new light: Mimicry rings, light environment and proximate mechanisms. International Society for Behavioral Ecology Conference. New York, NY.
- Seymoure BM**, McMillan WO & Rutowski RL. 2014. *Heliconius* in a new light: Mimicry rings, light environment and proximate mechanisms. Annual STRI Fellows' Symposium. Panama City, Panama.
- Rutowski RL, †Raymundo A, **Seymoure BM** & Lessios N. 2013. Courtship behavior of male butterfly enhances transmission of iridescent signal. Animal Behavior Conference. Boulder, Colorado.
- Seymoure BM**, McMillan WO & Rutowski RL. 2013. *Heliconius* mimicry rings in a new light: light environments and mimicry. Eighth *Heliconius* Consortium. Cambridge, Massachusetts.
- Seymoure BM**, McMillan WO & Rutowski RL. 2013. *Heliconius* mimicry rings and light environments: Implications for eye morphology. Annual Conference for the Society of Integrative and Comparative Biology. San Francisco, California.
- Seymoure BM**, McMillan WO, McGraw KJ & Rutowski RL. 2012. *Heliconius* mimicry rings in a new light. Annual Conference for the Society of Integrative and Comparative Biology. North Charleston, South Carolina.
- Seymoure BM**, Toomey MB & Clark DL. 2010. Snakes of Beaver Island: A descriptive and visual approach. Annual meeting of the Animal Behavior Society. Williamsburg, Virginia.
- Seymoure BM**, Rowe JW & Clark DL. 2009. Light habitat variation and reflectance patterns of the Midland Painted Turtle, *Chrysemys picta*. Annual meeting of the Michigan Academy of Sciences and Letters. Detroit, Michigan.
- Seymoure BM**, Rowe JW & Clark DL. 2008. Irradiance profiles, habitat variation and reflectance patterns of the Midland Painted Turtle, *Chrysemys picta*. Annual meeting of the Michigan Academy of Sciences and Letters. Kalamazoo, Michigan.

Conference Posters

- Waybright S, **Seymoure BM** & Funk C. 2017. Eyespot variation based on species, age, and population. Front Range Student Ecology Symposium. Colorado State University, Fort Collins, Colorado.
- Seymoure BM**, Lessios N, Pegram K & Rutowski RL. 2016. Here comes the sun: Temporal irradiance affects perception of multicomponent warning coloration. Living Light Conference. San Diego, California.
- Seymoure BM**, †Olzer R, Loew ER, McMillan WO & Rutowski RL. 2015. Vision and behavior matches light environment in neotropical butterflies. Entomological Society of America. Minneapolis, Minnesota.

- Seymoure BM** & Aiello, A. 2014. The band matters: Evidence for disruptive coloration. Annual Smithsonian Tropical Research Institute Fellows' Symposium. International Conference for Biology of Butterflies. Turku, Finland.
- Bergman M, Lessios N, **Seymoure BM** & Rutowski RL. 2014. Visual mate detection in a territorial butterfly – the effect of background and luminance contrast. International Conference for Biology of Butterflies. Turku, Finland.
- Bergman M, Lessios N, **Seymoure BM** & Rutowski RL. 2014. Visual mate detection in a territorial butterfly – the effect of background and luminance contrast. International Society for Behavioral Ecology. New York, New York.
- Seymoure BM** & Aiello A. 2014. The band matters: Evidence for disruptive coloration. Annual STRI Fellows' Symposium. Panama City, Panama.
- Seymoure BM**, McMillan WO & Rutowski RL. 2013. *Heliconius* mimicry rings and light environments: Implications for eye morphology. Annual STRI Fellows' Symposium. Panama City, Panama.
- Seymoure BM**, Lessios N, Borchert J, Ligon R, Ganesh T & Webber A. 2013. Models and best practices for implementing a graduate student led K-12 outreach program. Annual meeting for the Society for Integrative and Comparative Biology. San Francisco, California.
- †Olzer R, **Seymoure BM** & Rutowski RL. 2012. Innate vs. learned floral color preference in *Heliconius* butterflies. Annual meeting for the Animal Behavior Society. University of New Mexico, Albuquerque, New Mexico.
- Seymoure BM**, Toomey MB & Clark DL. 2012. Snakes of Beaver Island: A visual and descriptive approach. Annual meeting for the Society for Integrative and Comparative Biology. North Charleston, South Carolina.

Local Presentations

- Seymoure BM**. 2015. Mimicry is in the eye of the beholder. School of Life Sciences Graduate Seminar. Arizona State University, Tempe, Arizona.
- Seymoure BM**, Loew ER, McMillan WO, McGraw KJ & Rutowski RL. 2014. *Heliconius* mimicry rings in a new light: Habitat segregation and adaptation. Social Insect Research Seminar Series. Arizona State University, Tempe, Arizona.
- Seymoure BM**. 2014. Tale of two webs: Linyphiidae web reflectance matches background. Gamboa Seminar, Smithsonian Tropical Research Institute, Gamboa, Panama.
- Seymoure BM**. 2013. Shedding light onto preferences. School of Life Sciences Graduate Seminar. Arizona State University, Tempe, Arizona.
- Seymoure BM**, McMillan WO, McGraw KJ, & Rutowski RL. 2013. *Heliconius* mimicry rings in a new light. The Smithsonian Tropical Research Institute Behavioral Seminar. Panama City, Panama.
- Seymoure BM**. 2012. Outreach opportunities in graduate school. School of Life Sciences Graduate Seminar. Arizona State University, Tempe, Arizona.
- Seymoure BM**, McMillan WO, McGraw KJ & Rutowski RL. 2011. *Heliconius* mimicry rings in a new light. School of Life Sciences Graduate Seminar. Arizona State University, Tempe, Arizona.

Seymoure BM, Rowe JW & Clark DL. 2009. Light habitat variation and reflectance patterns of the Midland Painted turtle, *Chrysemys picta*. Alma College Annual Kapp Honors Day. Alma College, Alma, Michigan.

Seymoure BM, Rowe JW & Clark DL. 2008. Irradiance profiles, habitat variation and reflectance patterns of the Midland Painted Turtle, *Chrysemys picta*. Alma College Annual Kapp Honors Day. Alma College, Alma, Michigan.

Seymoure BM & Davis J. 2006. Effect of mental stimulation in older adults. Alma College Annual Kapp Honors Day. Alma College, Alma, Michigan.

Local Posters

†Parrish T, †Karnes A, White J, Angeloni L & **Seymoure BM**. 2017. Ecological factors affecting light at night. Celebrating Undergraduate Research and Creativity. Colorado State University, Fort Collins, Colorado.

†Karnes A, †Parrish T, White J, Lendrum P, Wittemyer G, Crooks K & **Seymoure BM**. 2017. How light levels at night affect wildlife land use. Celebrating Undergraduate Research and Creativity. Colorado State University, Fort Collins, Colorado.

Seymoure BM, †Olzer R, Loew ER, McMillan WO & Rutowski RL. 2015. Vision and behavior matches light environment in neotropical butterflies. University of Minnesota Community of Scholars Program – Research Poster Symposium. Minneapolis, Minnesota.

Seymoure BM, †Olzer R, McMillan WO & Rutowski RL. 2013. *Heliconius* mimicry rings and light environments: implications for eye morphology. Initiative for Maximizing Student Development Symposium. Arizona State University. Tempe, Arizona.

†Olzer R, **Seymoure BM** & Rutowski RL. 2012. Innate vs. learned floral color preference in *Heliconius* butterflies. 19th Annual Undergraduate Research Poster Symposium. Arizona State University. Tempe, Arizona.

Seymoure BM, McMillan WO, McGraw KJ & Rutowski RL. 2012. *Heliconius* mimicry rings in a new light. Graduate and Professional Student Association Poster Symposium. Arizona State University, Tempe, Arizona.

FUNDING & FELLOWSHIPS

Note: CSU (Colorado State University), ASU (Arizona State University), SoLS (School of Life Sciences)

Notable Submissions

2017 Integrative Organismal Systems, National Science Foundation Preproposal. Loss of night: How does the spectral composition of artificial light shape organismal responses?
Reviewed: 2 Very Good, 1 Fair

Research

2016	College of Liberal Arts and Sciences Graduate Excellence Award	\$200
2015	National Science Foundation Doctoral Dissertation Improvement Grant	\$20,085
	ASU SoLS Research Training Initiatives Field Research Award	\$1,400
2014	ASU Graduate and Professional Student Association Research Aid	\$2,000
	ASU SoLS Research Training Initiatives Field Research Award	\$1,500
	ASU Chapter of Sigma-Xi Grants-in-Aid of Research	\$400

2013	ASU Graduate and Professional Student Association JumpStart Grant	\$500
	ASU Graduate and Professional Student Association Research Aid	\$1,920
	ASU-Smithsonian Tropical Research Institute Grant	\$13,800
2012	ASU Chapter of Sigma-Xi Grants-in-Aid of Research	\$499
	ASU Graduate and Professional Student Association JumpStart Grant	\$500
	ASU Graduate and Professional Student Association JumpStart Grant	\$500
	Sigma-Xi Grants in Aid of Research	\$985
	Society for Integrative and Comparative Biology Grants in Aid of Research	\$985
2011	ASU-Smithsonian Tropical Research Institute Grant	\$10,765
2010	ASU Research Training Initiatives	\$680
	ASU Graduate and Professional Student Association JumpStart Grant	\$499

Fellowships

2016	National Science Foundation 2-year Postdoctoral Fellowship	\$138,000 (Declined)
2015	ASU Graduate Completion Fellowship	\$17,000
2014	SoLS Graduate Fellowship	\$1,928
2013	ASU-Smithsonian Tropical Research Institute Grant	\$58,000
2012	SoLS Graduate Fellowship	\$2,892
2011	Smithsonian Tropical Research Institute Short Term Fellow	\$5,000

Travel Awards

2016	Graduate and Professional Student Association Conference Travel Grant	\$950
	International Society for Behavioral Ecology Travel Award	\$1700
	Graduate and Professional Student Association Conference Travel Grant	\$950
	Conference Travel Grant, SoLS	\$400
2015	Graduate and Professional Student Association Interview Travel Grant	\$550
	Graduate and Professional Student Association Conference Travel Grant	\$950
	Conference Travel Grant, SoLS	\$400
2014	International Society for Behavioral Ecology Travel Award	\$750
	Conference Travel Grant, SoLS	\$400
2013	Conference Travel Grant, SoLS	\$400
	Graduate and Professional Student Association Conference Travel Grant	\$950
2012	The Lepidoptera Research Society Travel Grant	\$1000
	Graduate and Professional Student Association Conference Travel Grant	\$910
2011	Graduate and Professional Student Association Conference Travel Grant	\$950
	Conference Travel Grant, SoLS	\$400
2010	Conference Travel Grant, SoLS	\$350

Service Awards and Funding

2015	ASU Graduate and Professional Students Association Challenge	\$15,000
2014	Smithsonian Tropical Research Institute Fellowship Survival Guide	\$2,000
2013	Graduate Partners in Science Education Yearly Funding	\$47,136
2012	Graduate Citizen Scholar Award	\$1,100

Honors

2015	ASU College of Liberal Arts and Sciences Student Leader
2010	National Science Foundation Pre-doctoral Fellowship Honorable Mention

MENTORING EXPERIENCE

Undergraduate Theses

Janelle Matura (2015-2016). Thesis: Convergent Monarch mimicry across the US. ASU, Tempe, AZ.

Andrew Raymundo (2012-2013). Barrett Honors thesis: Heritability of color in *Battus philenor*. ASU, Tempe, AZ.

Independent Projects

Alynn Karnes (2017-Present). Ecological factors driving differences in light environments. CSU, Fort Collins, CO.

Tessa Parrish (2017-Present). Artificial light at a gas development affects mammal abundance. CSU, Fort Collins, CO.

Sarah Waybright (2016-Present). Adaptive coloration in tadpoles dependent upon population and habitat. CSU, Fort Collins, CO.

Abigail Fergus (2016). Prey availability matches visual trait strategies in sheet-weaving spiders. Alma College, Alma, MI.

Emily Brody (2014). Pupal mating in *Heliconius* butterflies. Smithsonian Tropical Research Institute, Gamboa, Panama.

Amanda Justice (2012-2013). The Monarch mimicry complex pattern analysis. ASU, Tempe, AZ.

Rachel Olzer (2011-2014). Innate vs. learned floral color preference in *Heliconius* butterflies. ASU, Tempe, AZ.

Research Assistantships

Arizona State University: Shazhadi Rashid (2016), Bharvi Rajyaguru (2016), Michael Folk (2016), Ethan Levy (2015), Ryan Schmoll (2015), Olivia van Vianen (2014), McKenzie Liberty-Bibbens (2014-2016), Krisjanis Malins (2014), Jennifer Armstrong (2013), Britney Southers (2013), Betsy Spencer (2012-2013), Nicole Hamlin (2012), Tyler Mello (2010-2011), Kaci Fankhouser (2011-2015).

Smithsonian Tropical Research Institute: Andre Szejner Sigal (2015), Tamara Cherwin (2015), Kayla Seltzer (2015), Collin Whitset (2013), Ben Rice (2012), Michael Neimeyer (2011), Claire Johnson (2011).

Alma College: Demi Gary (2007-2009).

PROFESSIONAL SERVICE

<i>Peerage Reviewer</i>	2016-present
<i>Manuscript Reviewer (Ten Journals, > 15 Manuscripts)</i>	2010-present
<i>Biologist Consultant</i>	2011
National Geographic BioBlitz at Saguaro National Park, Tucson, AZ.	

COMMUNITY SERVICE

<i>Lecturer at Freedom Elementary, Liberty School District, Buckeye, AZ</i>	2015
<i>Scottsdale Contemporary Art Museum Butterfly Consultant</i>	2015
<i>Nina Mason Pulliam Audubon Center Lecturer and Guide</i>	2010-present
<i>Ask-A-Biologist Participant</i>	2009-present
<i>Program Director of Graduate Partners in Science Education</i>	2011-2013
http://gpse.asu.edu/about-gpse/	

Mentor for Graduate Partners in Science Education

2010-2011

INSTITUTIONAL SERVICE

<i>Judge for Colorado State University Graduate Student Showcase</i>	2016
<i>Graduate and Professional Students Association Director of New Initiatives</i>	2015
<i>Vice President of School of Life Sciences Graduate Program</i>	2014-2015
<i>School of Life Sciences Undergraduate Researcher Selection Committee</i>	2015
<i>Moderator for SoLS Graduate Retreat for Graduate Student Development</i>	2013 & 2014
<i>BioCore: Biology Core Curriculum Reviewer</i>	2014
<i>STRI Vehicle Policy Committee</i>	2013-2014
<i>STRI Gamboa-Barro Colorado Island Synergy Committee</i>	2013
<i>Vice President of the Arthropod Professional Student Association</i>	2012-present
<i>Central Arizona Chapter of Conservation Graduate Student Panel</i>	2012
<i>Website Manager Rutowski Lab</i>	2010-present
<i>Grant Reviewer</i>	2009 & 2012
<i>Website Manager and Developer McGraw Lab</i>	2011-2012
<i>Social Chair of the Graduate Scholars in the School of Life Sciences</i>	2011-2012
<i>Animal Behavior Reading Group Coordinator</i>	2010-2011
<i>Molecular Biologist Search Committee, Alma College</i>	2009
<i>President of Beta Beta Beta, Alma College</i>	2007-2009

TEACHING EXPERIENCE

<i>Adjunct Professorship</i>	
Biology 100, Red Mountain Mesa Community College, Mesa, AZ.	2015
Lecture and Laboratory	
<i>Course Instructor</i>	
Science Communication and Education, GRD 598	2012
<i>Teaching Assistantships, Arizona State University</i>	
Why people steal, cheat and lie, BIO 494	2015
Innovative teaching assistant, Professor: M. Angilletta	
Animal Physiology, BIO 360	2014
Innovative teaching assistant, Professors: M. Orchinik & S. Brownell	
Animal Behavior, BIO 330	2012
Innovative teaching assistant, Professors: J. Alcock & RL. Rutowski	
Vertebrate Biology, BIO 371	2012
Lab instructor, Professor: KJ. McGraw	
Science Communication and Education, GRD 598	2011
Lecturer and coordinator, Professors: T. Ganesh & A. Webber	
School of Life Sciences Undergraduate Research Summer Program	2010
Assistant lecturer and coordinator, Professor: RL. Rutowski	
Introductory Biology, BIO 181 and 182	2009-2011
Lab instructor, Lab coordinator: Kim Michel	
<i>Teaching Assistantships, Alma College</i>	
Introductory Biology, BIO 121 & 122 Lab assistant	2006-2009

Guest Lectures

Vertebrate Respiration: From deep seas to mountain peaks Rhodes College, Memphis, TN	2016
Visual systems and light environments of rainforests. IGERT Graduate Tropical Biology Field Course, Smithsonian Tropical Research Institute. Gamboa, Panama.	2016
Sexual selection and operational sex ratios. Animal Behavior, BIO 330, Arizona State University. Tempe, AZ.	2012
Lepidosaur and archosaur natural history. Vertebrate Zoology, BIO 371, Arizona State University. Tempe, AZ.	2012
Science communication to the non-scientist. Cell Biology Seminar, MCB 592, Arizona State University. Tempe, AZ.	2011

Tutoring, Alma College

Introductory Biology, BIO 121 & 122	2006-2009
Genetics, BIO 205	2007-2008
Introductory Chemistry, CHM 115	2006-2009

PROFESSIONAL MEMBERSHIPS

Animal Behavior Society	2010-present
International Society for Behavioral Ecology	2010-present
Society for Integrative and Comparative Biology	2011-present
The Lepidopterist Society	2011-present
Sigma Xi	2012-present
The American Society of Naturalists	2014-present
AAAS	2016-present