

Erica L. Westerman, Ph.D.

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Assistant Professor *Integrative Animal Behavior & Invertebrate Biology*
University of Arkansas, Department of Biological Sciences **Aug 2016- present**

Education

- Yale University**, Ecology & Evolutionary Biology. New Haven, CT **Ph.D. 2012**
Thesis: The effect of social experience and rearing environment on mating behavior in the butterfly *Bicyclus anynana*; **Advisor:** Ant3nia Monteiro
- University of New Hampshire**, Zoology. Durham, NH **M.Sc. 2007**
Thesis: Impacts of changing water temperatures in the life histories of two invasive ascidians in the Gulf of Maine: *Botryllus schlosseri* and *Botrylloides violaceus*;
Advisors: Larry Harris and Jessica Bolker
- Yale University**, Ecology & Evolutionary Biology. New Haven, CT **B.S. Intensive 2003**
Thesis: Phenotypic plasticity and the effect of temperature on two species of marine rotifer in the *Brachionus plicatilis* Muller species complex, *Brachionus plicatilis sensu stricto* and *Brachionus rotundiformis*; **Advisor:** Sean Rice

Postdoctoral Appointment

- University of Chicago**, Ecology & Evolution. Chicago IL, **Sept 2012-Aug 2016**
Postdoctoral scholar: genetics, social components, and neurobiology of visual mate preference.
PI: Dr. Marcus Kronforst

Grants, Fellowships and Awards

Grants

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| Collaborative Research Grant, University of Arkansas (\$2,000) | 2016-2017 |
| Chicago Biomedical Consortium Postdoctoral Research Grant (\$15,000) | 2014-2015 |
| Doctoral Dissertation Improvement Grant, NSF (\$14,995) | 2011-2013 |
| National Estuarine Research Reserve Fellowship, NOAA (\$40,000)
Great Bay Reserve, New Hampshire | 2006-2008 |
| Research Support Grant, UNH Center for Marine Biology (\$800) | 2006 |
| Research Support Grant, UNH Center for Marine Biology (\$750) | 2004 |
| BP Conservation project grant, Bronze award, BP Conservation Program (\$10,000)
awarded to Matthew Shirley, Kristof Zyskowski, B. Britten Harter, Erica Westerman and
Melissa Garren | 2003 |
| NSF Research Experience for Undergraduates, University of Tulsa (\$2,000) | 2002 |
| Henry David Thoreau Environmental Summer Internship, Yale University (\$3,000) | 2001 |

Honors

Lepidopterists' Society Clench Award (\$500)	2011
Best student presentation at annual meeting	
Society of Integrative and Comparative Biology Best Student Oral Presentation (\$150)	2011
Division of Animal Behavior	

Conference Travel Awards

Conference Travel Fellowship, Yale University Graduate Student Assembly (\$200)	2010
Travel bursary, Role of Behaviour in Speciation workshop (£300 + fee waiver)	2009
“Speciation” EU Initial Training Network Grant, University of St. Andrews, Scotland	
Travel Grant, University of New Hampshire (UNH) (\$300)	2007
College of Agriculture and Life Sciences Dean's Discretionary Fund	
Travel Grant, UNH Marine Program (\$600)	2007
Travel Grant, UNH Graduate School (\$200)	2007
Travel Grant, UNH Graduate School (\$200)	2007
Travel Grant, UNH Department of Zoology (\$200)	2007
Travel Grant, UNH Department of Zoology (\$150)	2006
Travel Grant, UNH Graduate School (\$200)	2006
Travel Grant, UNH Graduate School (\$200)	2006
Travel Grant, UNH Center for Marine Biology (\$236)	2006
Travel Grant, UNH Zoology Department (\$150)	2005

Publications

Westerman, E.L., Monteiro, A. (2016) Rearing temperature influences adult response to changes in mating status. *PLoS ONE* Doi: 10.1371/journal.pone.0146546

Westerman, E.L., Chirathivat, N⁺, Schyling, E⁺, Monteiro, A. (2014) Mate preference for a phenotypically plastic trait is learned, and may facilitate preference-phenotype matching. *Evolution* 68(6) 1661-1670 Doi: 10.1111/evo.12381

Westerman, E.L., Drucker, C.B⁺, Monteiro, A. (2014) Male and female mating behavior is dependent on social context in the butterfly *Bicyclus anynana*. *Journal of Insect Behavior* 27(4) 478-495 Doi: 10.1007/s10905-014-9441-9

Westerman, E.L. Monteiro A (2013) Odour influences whether females learn to prefer or avoid wing patterns of male butterflies. *Animal Behaviour* 86: 1139-1145. Doi:10.1016/j.anbehav.2013.09.002

Westerman, E.L., Hodgins-Davis, A., Dinwiddie, A., Monteiro, A. (2012) Biased learning affects mate choice in a butterfly. *Proceedings of the National Academy of Sciences* 109(27) 10948-10953. Doi: 10.1073/pnas.1118378109

Buss, L.W., Anderson, C., **Westerman, E.L.,** Kritzberger, C⁺, Poudyal, M., Moreno, M., Lakkis, F. (2012) Allorecognition triggers autophagy and subsequent necrosis in the cnidarian *Hydractinia symbiolongicarpus*. *PLoS ONE* 7(11): e48914. Doi: 10.1371/journal.pone.0048914

Dijkstra, J., **Westerman, E.,** Harris, L.G. (2011) The effects of climate change on species composition, succession and phenology: A case study. *Global Change Biology* 17: 2360-2369. Doi: 10.1111/j.1365-2486.2010.02371.x

Bear, A., Simons, A⁺, **Westerman, E.,** Monteiro, A. (2010) The genetic, morphological, and physiological characterization of a dark larval cuticle mutation in the butterfly, *Bicyclus anynana*. *PLoS ONE* 5(7): e11563. Doi:10.1371/journal.pone.0011563

Smits A⁺, Cooley J.R., **Westerman E.** (2010) Twig to root: Egg-nest density and underground nymph distribution in a periodical cicada (Hemiptera: *Magicacada septendecim* (L.)). *Entomologica Americanan* 116:73-77. Doi: 10.1664/09-RA-004R.1

Westerman, E., Dijkstra, J., Harris, L.G. (2009) High natural fusion rates in a botryllid ascidian. *Marine Biology* 156(12): 2613-2619. Doi: 10.1007/s00227-009-1287-x

Westerman, E. Whitlatch, R., Dijkstra, J., and Harris, L.G. (2009) Variation in brooding period masks similarities in response to changing temperatures. *Marine Ecology Progress Series* 391:13-19. Doi: 10.3354/meps08107

Dijkstra, J., Dutton, A⁺, **Westerman, E.**, Harris, L.G. (2008) Heart rate reflects osmotic stress levels in the two introduced colonial ascidians *Botryllus schlosseri* and *Botrylloides violaceus*. *Marine Biology* 154(5): 805-811. Doi: 10.1007/s00227-008-0973-4

Dijkstra, J., Harris, L.G., **Westerman, E.** (2007) Distribution and ecology of four colonial ascidians: *Botryllus schlosseri*, *Botrylloides violaceus*, *Diplosoma listerianum* and *Didemnum* sp. in the Gulf of Maine. *Journal of Experimental Marine Biology and Ecology* 342: 61-68. Doi: 10.1016/j.jembe.2006.10.015

⁺=undergraduate coauthor

In Preparation

Dijkstra, J^{*}, **Westerman, E^{*}**, Harris, L. (in review) Elevated seasonal temperatures eliminate thermal barriers of reproduction of a dominant invasive species: A community state change for northern communities?

^{*}= equal author contributions

Zhang, W., **Westerman, E.**, Tenger-Trolander, A., Massardo, D., Nitzany, E., Palmer, S., Kronforst, M.R. (in review) Tracing the origin and evolution of supergene mimicry in butterflies

Westerman, E.L., Letchinger, R⁺, Tenger-Trolander, A., Massardo, D., Kronfrost, M.R. (in review) Male weighting of female activity over wing pattern may facilitate the maintenance of female limited polymorphism in a Batesian mimic butterfly

Suatoni, E., **Westerman, E.**, Marquez, R. (in prep) Post-mating, prezygotic incompatibilities drive reproductive isolation in the rotifer *Brachionus plicatilis*

Invited Presentations

Arkansas Entomological Society Capstone Speaker	2017
Wing patterns and signal processing: the role of perception in maintaining polymorphisms In butterflies	
Drury University Biology Department Student Invited Speaker	2016
Mating behavior, climate change, and invasive species biology: Journeying along the winding road of academia	
University of Central Florida Biology Departmental Seminar	2016
Mechanisms of visual attraction: genetics, experience, and environment	
University of Arkansas, AK Biology Departmental Seminar	2016
Mechanisms of visual attraction: genetics, experience, and environment	
Columbia University, NYC Ecology, Evolution, and Environmental Biology Seminar	2016

Mechanisms of visual attraction: genes, experience, and environment University of North Carolina Pembroke, NC Department of Biology Seminar	2016
Mechanisms of visual attraction: genes, experience, and environment University of Connecticut, CT Ecology & Evolutionary Biology Departmental Seminar	2016
What makes us tick? The effect of genetics and experience on visual attraction Albion College, MI Departmental Seminar	2015
What makes us tick? The effect of genetics and experience on visual attraction International Conference on the Biology of Butterflies 2014	2014
Symposium speaker for “Integrating pre- and post-copulatory sexual selection in the Lepidoptera: New insights and future directions” Butterfly mate preference learning: learning biases, multimodal signaling, and sexually dimorphic learning	
International Conference on the Biology of Butterflies 2014	2014
Symposium speaker for “Behavioural and neurological aspects of ecological adaptation and speciation” Perceptual biases and visual attraction: the role of perception in reproductive isolation	
University of Chicago, IL, Animal Behavior Seminar Series	2012
Mate choice learning in butterflies: Learning biases and sexually dimorphic behavior	
University of Basel Evolutionary Biology Zoological Institute, Switzerland	2012
Special Seminar: Premating experience alters butterfly mating behavior	
Harvard FAS Center for Systems Biology, MA	2012
Special Seminar: Social experience influences butterfly mating behavior	
Adelphi College, NY Seminar for Biology Majors	2011
Learning that more is better is easier than learning that less is more: Sexual imprinting in butterflies	
University of New Hampshire, NH Zoology Departmental Seminar	2007
Impacts of changing water temperatures on two invasive ascidians: global warming—bring it on	
University of New Hampshire Marine Docent Program, NH Guest lecture	2006
Global warming, invasive sea squirts, and the Gulf of Maine	
Bowdoin College, ME Guest lecture for Dynamic Models in Biology	2006
Environmental effects on growth and reproductive rates in non-native species	
Slauson Middle School, MI Guest speaker for Women in Sciences	2005
Ascidians and underwater research experiences	

Contributed Presentations

Talks:

1. **Westerman, E.L.** & Kronfrost, M. (2016) Nature and nurture: The genetics of visual attraction in *Heliconius* butterflies
Society of Integrative and Comparative Biology Annual Meeting, Portland, Oregon
2. **Westerman, E.L.** & Kronforst, M. (2015) Mate preference genomics and the K locus
International Heliconius Meeting, Gamboa, Panama
3. **Westerman, E.L.** & Kronforst, M. (2015) Mate preference genomics in *Heliconius* butterflies
Animal Behavior Society Annual Meeting, Anchorage, AK
4. **Westerman, E.L.**, Trilander, A., Letchinger, R., Garcia, G., Massardo, D., Kronforst, M. (2015)
Male courting strategies may facilitate the maintenance of female polymorphism in a mimetic butterfly
Society of Integrative and Comparative Biology Annual Meeting, West Palm Beach, Florida
5. **Westerman, E.L.** & Monteiro, A. (2014) Sexually dimorphic preference learning in a butterfly: learning biases, mate choice, and sexually dimorphic ornamentation.
International Behavioral Ecology Meeting, New York City, New York
6. **Westerman, E. L.** & Monteiro, A. (2014) Sexually dimorphic learning in a butterfly: learning

- biases, mate choice, and sexually dimorphic ornamentation.
Society of Integrative and Comparative Biology Annual Meeting, Austin, Texas
7. **Westerman, E.L.**, Chirathivat, N., Schyling, E., Monteiro, A. (2013) Mate preference for a seasonally polyphenic trait is polyphenic and learned in a butterfly.
Animal Behavior Society Meeting, Boulder, CO.
 8. **Westerman, E. L.**, Monteiro, A. (2012) Male and female mate choice learning and ornament diversity in butterflies.
Post-conference symposia on non-adaptive reproductive isolation and speciation at the International Society of Behavioral Ecology Meeting, Lund, Sweden
 9. **Westerman, E.L.**, Monteiro, A. (2012) Olfactory cues influence the learning of visual sexual signals in a butterfly.
Animal Behavior Society Meeting, Albuquerque NM.
 10. **Westerman, E.L.**, Monteiro, A. (2012) Mating status drives male-female interactions in a polygynadrous butterfly.
Society for Integrative and Comparative Biology Annual Meeting, Charleston, SC.
 11. **Westerman, E.L.**, Monteiro, A. (2011) Mate preference learning in a butterfly.
Animal Behavior Society and the International Ethological Conference Meeting, Bloomington, IN.
 12. **Westerman, E.L.**, Monteiro, A. (2011) Premating experience changes mating patterns in a butterfly.
Lepidopterists' Society Meeting, New Haven, CT.
 13. **Westerman, E.L.**, Monteiro, A. (2011) Premating experience reverses mating patterns in female butterflies.
Evolution Meeting, Norman, OK.
 14. **Westerman, E.L.**, Monteiro, A. (2011) Butterflies learn to like novel wing patterns, but learning that more is better is easier than learning that less is more.
Society of Integrative and Comparative Biology Meeting, Salt Lake City, UT.
 15. **Westerman, E.L.**, Hodgins-Davis, A., Monteiro, A. (2010) Early experience modifies female mating patterns in *Bicyclus anynana*.
International Conference on the Biology of Butterflies, Edmonton, Alberta, CANADA.
 16. **Westerman, E.L.**, Hodgins-Davis, A., Monteiro, A. (2010) Naive mate preference is modified by early experience in the butterfly *Bicyclus anynana*.
Society of Integrative and Comparative Biology Meeting, Seattle, WA.
 17. **Westerman, E.L.**, Buss, L., Harris, L. (2008) High rates of fusion in colonial ascidians in the field.
Benthic Ecology Meeting, Providence, RI.
 18. **Westerman, E.L.**, Whitlatch, R., Dijkstra, J., Harris, L. and Bolker, J. (2007) Untangling temperature tolerance discrepancies between growth, abundance, and recruitment in *Botryllus schlosseri* and *Botrylloides violaceus*.
International Invasive Sea Squirt Conference, Prince Edward Island, CANADA.
 19. **Westerman, E.L.**, Dijkstra, J., Harris, L. and Bolker, J. (2007) Duration of breeding season elongated by warmer water temperatures in the Gulf of Maine for two species of invasive ascidians: *Botryllus schlosseri* and *Botrylloides violaceus*.
Benthic Ecology Meeting, Atlanta, GA.
 20. **Westerman, E.L.**, Dijkstra, J., Harris, L. and Bolker, J. (2007) Timing of colonial ascidian life cycle offset by warmer winter water temperatures in the Gulf of Maine.
Society for Integrative and Comparative Biology Meeting, Phoenix, AZ.
 21. **Westerman, E.L.** and Harris, L. (2006) Environmentally caused changes in asexual reproduction and growth rates in two invasive sea squirts in the Gulf of Maine: *Botryllus schlosseri* and *Botrylloides violaceus*.
Benthic Ecology Meeting, Quebec City, Canada.
 22. **Westerman, E.L.** and Harris, L. (2006) Environmentally caused changes in asexual reproduction rates in two invasive sea squirts: *Botryllus schlosseri* and *Botrylloides violaceus*.

Society for Integrative and Comparative Biology Meeting, Orlando, FL.

Posters:

1. **Westerman, E.L.** & Kronforst, M.R. (2016) The genetics of visual attraction
Ecological Genomics Symposium, Kansas City, MO
2. Buerkle, N.P., **Westerman, E.**, Kronforst, M.R., Palmer, S.E. (2015) Investigating the neural basis of color-based mate choice preferences in Heliconius butterflies
Society for Neuroscience Annual Meeting, Chicago, IL
3. **Westerman, E.** McConnell, S., Risner, L., Schwartz, N. (2014) The importance of gender equality in postdoctoral mentoring: Gender inequality in mentor attention correlates with gender inequality in postdoctoral researcher confidence and future career plans
National Postdoctoral Association Meeting, St. Louis, MO
4. **Westerman, E.L.**, Monteiro, A. (2012) Olfactory signals change female learning of male visual signals in the butterfly *Bicyclus anynana*
International Society of Behavioral Ecology Meeting, Lund, Sweden
3. Chirathivat, N., **Westerman, E.L.**, Monteiro, A. (2012) Sexual dimorphism in mate choice learning of the butterfly *Bicyclus anynana*
Animal Behavior Meeting, Albuquerque, NM
5. Drucker, C. B., **Westerman, E.L.**, Monteiro, A. (2011) Sex ratio influences courtship behavior in the butterfly *Bicyclus anynana*.
Society of Integrative and Comparative Biology Meeting, Salt Lake City, UT
5. **Westerman, E.L.**, Dijkstra, J.A., Harris, L.G. (2010) Colony fusion is common in a colonial ascidian.
Society of Integrative and Comparative Biology Meeting, Seattle, WA.
6. **Westerman, E.L.** and Harris, L. (2007) Unusually high growth rates provide evidence of fusion in the field in *Botryllus schlosseri* and *Botrylloides violaceus*.
4th International Tunicate Meeting, Villafranche-sur-Mar, France.
7. **Westerman, E.L.**, Dijkstra, J., Harris, L. and Bolker, J. (2007) Relative reproductive temperature tolerances hidden by brooding periods: *Botryllus schlosseri* vs. *Botrylloides violaceus*.
4th International Tunicate Meeting, Villafranche-sur-Mar, France.
8. **Westerman, E.L.** and Suatoni, E. (2005) Phenotypic plasticity and the effects of temperature on two species of marine rotifer in the *Brachionus plicatilis* Muller species complex: *Brachionus plicatilis* s.s. and *Brachionus rotundiformis*.
Benthic Ecology Meeting, Williamsburg, VA.

Teaching

Lecturing, Labs, and Seminars

University of Chicago

Co-taught graduate student course: Advanced Topics in Evolution Spring 2013, 2015/16
With Dr. Kronforst, led a seminar style course with lecture, discussion, readings, and papers. For 6-12 graduate students

Guest lecturer for Evolution and Ecology Winter 2014, 2015
Sexual Selection, design and deliver lecture for ~50 students

Yale University

Guest lecturer for Invertebrates I Spring 2011
The Tunicata & Tunicata II, designed and delivered 2 lectures for 4 students

Teaching Fellow, Evolution, Ecology & Behavior Laboratory Spring 2012
Led lab section of 15 students: taught dissections, field techniques, manuscript writing, presentation skills, experimental design, designed quizzes

- Teaching Fellow, Invertebrates I, Lab. for Invertebrates I** Spring 2011
Co-designed labs, obtained live and museum specimens, taught microscopy, dissection, morphology, designed and delivered lab practicals
- Teaching Fellow, Principles of Ecology, Evolution & Behavior** Spring 2008, 2010
Designed and led 15 person seminar style sections to cover topics selected by professor for 120-student lecture course. Also wrote exam questions for lecture course, graded, led review sessions, taught scientific writing.
- Teaching Fellow, Evolutionary Medicine** Fall 2009
Designed and led 15 person seminar style section to cover papers and key topics in evolutionary medicine, to accompany ~60 student lecture course. Also wrote exam questions for lecture course, graded and, taught scientific writing.
- Teaching Fellow, Field Ecology** Fall 2008
Assisted in teaching methods in field ecology, assisted in organizing and conducting class research project, assisted in manuscript preparation and publication process of course research project.

University of New Hampshire

- Teaching Assistant, Anatomy** Summer 2007
Taught 20 person lab section for human anatomy. Designed and graded quizzes, gave and graded lab practicals.
- Instructor, Marine Docent Weekend** June 2006
Co-designed and led intensive methods in benthic ecology weekend course for ~15 adult docents at the Isles of Shoals Marine Lab
- Teaching Assistant, Development and Development Lab** Spring 2006
Designed and led two ~15 person lab sections, wrote syllabus, taught methods of developmental biology research, scientific writing, and oral presentation skills
- Teaching Assistant, Animal Behavior Lab** Fall 2005
Led ~20 person lab section, wrote and graded quizzes, taught field and lab methods in animal behavior, scientific writing, oral presentation skills, graded
- Teaching Assistant, Biology of Animals Lab** Fall 2005
Led ~20 person lab section, taught diversity in animal body plans, dissections, wrote and graded weekly quizzes, graded lab reports, wrote lab practicals.
- Teaching Assistant, Basic Ecology Lab** Fall 2004, Spring 2005
Led ~25 person lab section, assisted with a second 25 person section. Designed weekly introductory lab lectures, taught methods in lab and field ecology, taught scientific writing, graded weekly lab reports, graded exams for ~150 person lecture course.

Mentoring

- University of Arkansas** 1 MSc student 2016-present
- University of Chicago**, 2 undergraduate research projects, 1 senior thesis 2013-2016
1 recipient of a REU in Neuroscience, one manuscript in review, taught scientific writing, fellowship application writing, animal husbandry, assisted in CV preparation, job exploration, and post-baccalaureate job application process
Mentored a visiting graduate student from the Indian Institute of Science, Bangalore, India
- Yale University**, 3 undergraduate research projects 2010-2012
All three students are co-authors on published manuscripts, took one student to the ABS annual meeting to present their research, taught scientific writing, data analysis, fellowship application writing, animal husbandry, assisted in CV preparation, job exploration, and post-baccalaureate job application process
- Women in Science at Yale**, mentor undergraduate women in science 2011-2012
Assisted in CV preparation, job exploration, scientific writing, summer and post-baccalaureate job application process

Whim n' Rhythm alumnae mentor, mentor undergraduate senior women 2011-present
Assisted in job exploration and post-baccalaureate job application process
University of New Hampshire, 3 undergraduate research projects 2006-2007
1 published manuscript, taught scientific writing, animal husbandry, assisted in CV preparation,
job exploration, and post-baccalaureate job application process

Relevant Employment

Field Research Assistant March-July 2004
Hastings Natural History Reservation, University of California
Research Project: Cooperation in Western blue birds
Research Advisor: Janis Dickinson

Field Research Assistant July 2003-March 2004
Hakalau Forest National Wildlife Refuge, University of Hawaii at Manoa
Research Project: Effect of invasive species and climate change on endangered honey creepers
Research Advisor: Dr. Lenny Freed

Field Research Assistant May -July 2002
University of Tulsa, at Cedar Point Research Station, University of Nebraska
Research Project: Coloniality in cliff swallows
Research Advisors: Dr. Charles Brown and Dr. Mary Bomberger Brown

Research Assistant June 2001-May 2002
Yale University
Research Project: Mate recognition and speciation in rotifers
Research Advisors: Doctoral candidate Elizabeth Suatoni, Dr. Sean Rice

Additional Education

Role of Behaviour in Speciation Workshop August 2009
"Speciation" EU Initial Training Network grant, University of St. Andrews, Scotland
Director: Dr. Michael Ritchie.

Optical Microscopy & Imaging in the Biomedical Sciences October 2008
Marine Biological Laboratory, Woods Hole,
Directors: Dr. Colin Izzard and Dr. Robert Hard.

Tropical Tunicate Taxonomy Course, August 2006
Smithsonian Tropical Research Institute,
Directors: Dr. Gretchen Lambert, Dr. Charles Lambert, and Dr. Rosana Roca

Research Skills

Molecular biology and genetics: PCR, qPCR, DNA and RNA extraction, library preparation for Illumina sequencing, design and execution of breeding programs to determine trait heritability

Bioinformatics and genomics: NextGen sequence processing and data analysis for genome wide association studies, templated genome assembly

Physiology and morphology: dissection and sample preparation of insect eye and brain for light microscopy, macro-invertebrate whole body fluorescent time-laps microscopy, transmitted electron microscopy, scanning electron microscopy, resin embedding, ultramicrotome sectioning, gelatin embedding and freezing microtome sectioning, cryostat sectioning, light spectroscopy

Field ecology: underwater transect sampling using SCUBA, terrestrial transect sampling, marine invertebrate rapid assessment surveys, long-term fouling community abundance and reproduction assays, avian mist netting, avian blood sample acquisition, bander on an endangered species permit

Animal behavior: focal watches of avian and lepidopteran species, wing pattern, social environment, and physical environment manipulations for experimental animal behavior, studies of mate choice, visual learning, and mating behavior in butterflies, feeding behavior and nest location in song birds, reproductive isolation in rotifers

Service

University of Chicago Postdoctoral Association Survey Committee Co-Chair 2013-2016
Design, implement, and analyze annual postdoctoral research, professional development, and satisfaction survey 2104 to present. Data analysis of Biological and Biomedical Sciences postdoctoral satisfaction survey data for 2007-2013 survey data. Design, preparation, and implementation of the National Postdoc Survey, 2016.

Society of Integrative & Comparative Biology Student Presentation Judge 2014-present
Judge for best student talk competition, Division of Invertebrate Zoology and for best student poster competition, Division of Animal Behavior at annual society meeting. Division of Animal Behavior best student talk competition judge panel member for the 2015 society meeting.

Yale University Graduate Student Assembly Departmental Representative 2009-2012
Senior Editor for GSA Compass 2010; Summer Steering Committee 2010; Athletics Committee 2009-2010; Steering Committee 2011-2012; Secretary of Health and Facilities Committee 2011-2012.

Graduate Associate of Yale College, Jonathan Edwards College 2008-2012
Organized workshops, did oral presentation coaching, and initiated a science trips program for undergraduates in the Jonathan Edwards Residential College at Yale University.

Yale University Graduate and Professional Student Senate Representative 2008-2009
Graduate School representative, Travel Fellowship Committee: evaluated and administered the Yale Graduate School Travel Fellowships 2008-2009.

Conference Organizational Committee Member 2005-2006
12th International Echinoderm Conference, at University of New Hampshire, August 2006.
Coordinated speaker sessions, registration, student talk competition, abstract books, t-shirt design, and travel arrangements for ~300 person international conference.

Reviewer for the following journals and granting agencies
Animal Behaviour, Behavioral Ecology, Ethology, Evolutionary Ecology, BMC Evolutionary Biology, Journal of Insect Behavior, Journal of Insect Science, Journal of Veterinary Science and Animal Husbandry, Belgium Public Research Program, "MOVE-IN Louvain incoming post-doc Fellowships" fellowship programme

Scientific Outreach

- Speaker for adult continued education at The Admiral, a retirement community in Chicago.
Spring 2016
- Co-organized and led a workshop at the Expanding Your Horizons event at the University of Chicago to introduce and engage low income middle-school-aged girls in science.
Spring, 2014, 2015
- Participated in a workshop with 4th grade students from a Chicago elementary school leading hands-on experiments on neural signaling, including recording from a live cockroach and EMG recording of the student's own muscles.
Spring 2014, Winter 2015
- Speaker for Expose Yourself! A University-wide discussion of research on Love and Sex at the University of Chicago.
Feb 13, 2014
- Organized and led a workshop at the annual Animal Behavior Society Outreach Fair.
Summer 2013,2015
- Participated as a science judge at local and regional middle school science fairs.
2012-present

Professional Affiliations

Society of Integrative and Comparative Biology (SICB)
Animal Behavior Society (ABS)
Society for the Study of Evolution (SSE)
International Society of Behavioral Ecology (ISBE)
National Postdoctoral Association (NPA)