

## Richard K. Simpson

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[ColSciSimpson.com](http://ColSciSimpson.com)

### RESEARCH INTERESTS

I am a comparative behavioral ecologist that uses a combination of field work, museum studies, and electron microscopy to study animal signal evolution and diversity by exploring how multiple signals interact with each other, the environment, and other life history traits.

### EDUCATION

- 2018** PhD in Animal Behavior; Arizona State University (Tempe, AZ, USA)  
*"The evolution of hummingbird coloration and courtship displays"* (Advisor: Dr. Kevin McGraw)
- 2012** BS in Biology with honors; Trinity University (San Antonio, TX, USA)  
*"Migration distance and sexual dichromatism: how selection on female coloration drives dichromatism in wood warblers"* (Advisor: Dr. Troy Murphy)

### ACADEMIC POSITIONS

- 2018-Present** Post-doctoral Fellow University of Windsor

### PUBLICATIONS AND MEDIA

- Peer-Reviewed Journal Articles** \*Denotes undergraduate authorship
18. **Simpson RK**, McGraw KJ, Doucet SM. Hummingbird feather photonic structures co-evolve with courtship displays and signal interactions. *In Review at Science Advances.*
  17. Moeller KT, Brashears JA, Davies S, Demare G, Smith GD, **Simpson RK**, DeNardo, DF. Influences of habitat type and phylogeny on stress and immune responses to dehydration in squamate reptiles. *In Review at Functional Ecology.*
  16. Demko AD, Sosa-Lopez JR, **Simpson RK**, Doucet, SM Mennill, DJ. Divergence in plumage, voice, and morphology indicates speciation in Rufous-capped Warblers (*Basileuterus rufifrons*). *In Review at the Auk.*
  15. Earl AD, Kimmitt AA, **Simpson RK**, Yorzinski, JL. Female ornamentation in a lekking bird: bright females dominate. *In Review at Animal Behaviour.*
  14. \*Reed S, **Simpson RK**, McGraw KJ. Feather morphological predictors of angle-dependent color changes in parrot plumage. *In Review at Royal Society Open Science.*

13. Sepp T, Webb E, **Simpson RK**, Giraudeau M, McGraw, KJ Hutton, P. Light at night reduces digestion efficiency of developing birds: an experiment with king quail. *In Review at Journal of Experimental Biology*
12. **Simpson RK**, Mistakidis AF, Doucet SM. The environment, sexual selection, and natural selection have different effects on plumage color and conspicuousness evolution in wood-warblers. *In Review at Biological Journal of the Linnaean Society*
11. **Simpson RK** & McGraw KJ. (2019) Interspecific covariation in courtship displays, iridescent plumage, solar orientation, and their interactions in hummingbirds. *The American Naturalist*, 184: 441-454.  
**Media Coverage:** [ASU Now](#)
10. \*Saini C, Hutton P, Gao S, **Simpson RK**, Giraudeau M, Sepp T, Webb E, McGraw KJ. (2019). Exposure to artificial light at night increases innate immunity during development in a precocial bird. *Journal of Comparative Biochemistry and Physiology A*. 233: 84-88.
9. **Simpson RK** & McGraw KJ. (2019) Experimental trait mis-matches uncover specificity of evolutionary links between multiple signaling traits and their interactions in hummingbirds. *Evolution*, 73: 436-451.  
**Media Coverage:** [Evolution Digest](#)
8. **Simpson RK** & McGraw KJ. (2018) It's not just what you have but how you use it: solar-positional and behavioral effects on hummingbird color appearance during courtship. *Ecology Letters*, 21: 1413-1422.  
**Media Coverage:** [Science](#) ([Science video](#)), [Forbes](#)
7. **Simpson RK** & McGraw KJ. (2018) Multiple signaling in a variable environment: expression of song and color traits as a function of ambient sound and light. *Biotropica*, 50: 531-540
6. **Simpson RK** & McGraw KJ. (2018) Two ways to display: male broad-tailed hummingbirds exhibit different dynamic color tactics based on sun orientation. *Behavioral Ecology*, 29: 637-648.  
**Media Coverage:** [Oxford University Press Tumblr](#)
5. **Simpson RK**. (2017) Courtship and territorial behaviors of three hummingbird species in Arizona. *Arizona Birds 2017: 1-7*.
4. Ligon RA, **Simpson RK**, Mason NA, Hill GE, McGraw KJ. (2016) Evolutionary innovation and diversification of carotenoid-based pigmentation in finches. *Evolution*, 70: 2839-2852.
3. Hutton P<sup>^</sup>, Seymoure BM, Ligon RA, McGraw KJ, **Simpson RK**. (2015) Dynamic color communication. *Current Opinion in Behavioral Sciences*, 6: 41-49.  
<sup>^</sup>All authors contributed equally
2. **Simpson RK**, Johnson MA, Murphy TG. (2015) Migration and the evolution of sexual dichromatism: evolutionary loss of female coloration with migration among wood-warblers. *Proceedings of the Royal Society B.*, 282: 2015375.

**Media Coverage:** [Science](#), [Nature](#), [IFL Science](#), [Phys.org](#), [Nature World News](#), [Richard Dawkins Foundation](#)

1. Murphy TG, West JA, Pham TT, Cevallos LM, **Simpson RK**, Tarvin KA. (2014) Same trait, different signals: unlike females, male goldfinches do not signal status with bill color. *Animal Behaviour*, 93: 121-127.

### Popular Articles

- 2018 Simpson, RK.** How do male hummingbird dance moves alter their appearance? Oxford University Press Blog guest-post. ([link](#))
- 2014 Simpson, RK.** Ask A Biologist Top Question: Why do leaves change color? ([link](#))
- Simpson, RK.** Biology Bits: Feathers. ASU's Ask A Biologist. ([link](#))

### Popular Media

- 2019 Consultant for:** Attenborough's Life in Colour (BBC Nature documentary by Humble Bee Pictures, *in production*)
- 2018 Consultant for:** The Mating Game (BBC Nature documentary by Silverback Films, *in production*)
- 2017 Credited in:** How animals can change colors (Science Insider video; [link](#))
- 2016 Credited in:** Super Hummingbirds (PBS Nature documentary by Coneflower Studios; [link](#))
- 2014 Featured in:** Strum, M. Faint of Heart Need Not Apply. ASU's School of Life Sciences Magazine. 10, 1:19-23

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## CURRENT PROJECTS

### 5. The evolution and diversity of hummingbird and warbler color and color production

- **Collaborators:** Dr. Kevin McGraw, Dr. Stephanie Doucet, Dr. Russell Ligon, Dr. Daniel Mennill, Dr. David Wilson, Alison Mistakidis (MSc)
- **Ongoing work:** Transmission and scanning electron microscopy of feathers; photographic color analysis across all hummingbirds; analysis of Peruvian hummingbird field-data; manuscript preparation (4 intended)
- **Products in progress:** **Simpson, RK**, Wilson, DR, Mistakidis, AF, Mennill, DJ, Doucet, SM. Sympatry drives plumage and song divergence in Parulidae warblers. *In Prep for Ecology Letters*

### 4. Avian perception and predation of wine grapes at Southern Ontario vineyards

- **Collaborators:** Dr. Sephanie Doucet, Dr. Dan Mennill, Grace Bastien (MSc student)
- **Ongoing work:** Color and sugar analyses of grapes, experimentally testing bird deterrent methods at vineyards, assessing avian predation damage at vineyards

### 3. Urban environmental effects on development and physiology of color

- **Collaborators:** Dr. Kevin McGraw, Dr. Tuul Sepp, Dr. Mathieu Giraudeau, Pierce Hutton (PhD student), and Emily Webb (PhD student)

- **Ongoing work:** High-performance liquid chromatography of blood and organ samples; photographic color analysis; hormone assays; manuscript preparation (5 intended)
- **Products in progress:** **Simpson, RK** & McGraw, KJ. Effects of human-induced rapid environmental change on sexual selection. *In Prep. for Behavioral Ecology and Sociobiology.*

## 2. Coloration and sexual dimorphism in jumping spiders

- **Collaborators:** Dr. Lisa Taylor, Laurel Lietzenmayer (PhD student)
- **Products in progress:** Lietzenmayer, LB, **Simpson, RK**, Taylor, LA. A comparative study of male coloration, sexual size dimorphism, and male size in salticids. *In Prep. for Biology Letters.*

## 1. Understanding color variation in male and female peafowl

- **Collaborators:** Dr. Jessica Yorzinski, Alexis Earl (Masters student)
- **Ongoing work:** Male tail feather size measurements; peahen plumage color analysis; manuscript preparation (2 intended)

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## GRANTS & FELLOWSHIPS

### Fellowships

ASU = Arizona State University

<b>2017</b>	ASU Graduate College Completion Fellowship	\$13000
<b>2017-2013</b>	ASU School of Life Sciences Summer Fellowship (x4)	\$6800
<b>2016</b>	ASU School of Life Sciences Animal Behavior Graduate Summer Fellowship	\$6082
<b>2012</b>	ASU/Smithsonian Tropical Research Institute Fellowship	\$9988

### Research Awards

<b>2017</b>	United States Agency for International Development Global Development Research Scholar	\$8995
	National Science Foundation: Doctoral Dissertation Improvement Grant (IOS-1702016)	\$20085
<b>2017-2014</b>	ASU College of Liberal Arts and Sciences Graduate Excellence Award (x3)	\$650
<b>2016</b>	ASU Research and Training Initiative Graduate Training Fellowship	\$2000
	American Museum of Natural History Frank M. Chapman Memorial Fund	\$1000
<b>2016, 2014</b>	ASU Research and Training Initiative Fieldwork Grant (x2)	\$3000
<b>2015</b>	T and E Inc. Grants for Conservation Biology Research	\$2573
	ASU Graduate and Professional Student Association Jumpstart Grant	\$500
	ASU Research and Training Initiative Facilities Grant	\$1500
	Arizona Field Ornithologist Gale Monson Research Grant	\$1000
<b>2014</b>	ASU Graduate and Professional Student Association Research Grant	\$1600
	Animal Behavior Society Student Research Grant	\$1100
	Society for Integrative and Comparative Biology Grants in Aid of Research	\$1000
<b>2014-2013</b>	Sigma Xi: Arizona State University Chapter Grants-In-Aid of Research (x2)	\$700
<b>2013</b>	Society for the Study of Evolution: Rosemary Grant Award	\$2250

**Travel Awards**

<b>2018, 2016</b>	International Society for Behavioral Ecology Travel Grant (x2)	\$2200
<b>2017</b>	Animal Behavior Society Travel Grant	\$500
<b>2017-2013</b>	ASU School of Life Sciences Travel Award (x4)	\$1600
<b>2016-2014</b>	ASU Graduate and Professional Student Association Travel Grant (x3)	\$2748
<b>2014</b>	International Ornithological Conference Travel Grant	\$800

**Service Awards**

<b>2017</b>	ASU Graduate and Professional Student Association Assembly Service Award	\$500
<b>2015</b>	ASU Graduate and Professional Student Association Grad Challenge	\$15000

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**MENTORSHIP EXPERIENCE**

**Undergraduate Thesis I was a committee member on:** \*From underrepresented group

**2015-2018** *Steven Reed*; “Angle dependence in parrot feathers and interesting pigment-structure interactions within them”; **Arizona State University**  
- Now PhD student in Applied Mathematics at Arizona State University

**Independent Projects I was the primary mentor of:**

**2018** *Liliana Yisela Quispe Flores\**; “Flower preferences of tropical dry forest hummingbirds in Peru”; **Universidad Nacional Agraria La Molina (Peru)**  
- Now works for environmental consulting company in Peru

**2013-2017** *Jessica Givens\**; “Relationships between courtship behavior, morphology, and coloration in Anna’s hummingbirds”; **Arizona State University**  
- Now MSc student in Science and Technology Policy at Arizona State University

**Undergraduate Volunteers** – students have helped me with fieldwork and data analysis

**University of Windsor (1):** Joshua Minos

**Arizona State University (13):** Sayah Bogor\*; Christina Piarowski\*; Alysia Apple\*; Avery Underwood\*; Ashley Agolo\*; Jade Gates\*; Allison Hayes\*; Rachel Wuest\*; Bailey Ash; Nishel Sargent\*; Savanna Soldevere\*; Stephanie Takcik\*; Savannah Westerfield\*

**University of California – Davis (1):** Ushrayinee Sarker\*

**Universidad Nacional de San Agustín de Arequipa (1):** Carla Maria Llerena Quiroz\*

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**TEACHING EXPERIENCE**

**Education training received**

**Arizona State University**

- Scientific Teaching (BIO 591) – covered creating active learning lessons, course design, student mentorship

- Graduate K-12 STEM Education (CRD 598) – *covered 5E teaching methods, establishing course core concepts and learning objectives*

## Workshops

### University of Windsor

- Statistical, color, and phylogenetic analyses in R (meets weekly; 2018-Present)

### University of Florida

- Phylogenetic analyses in R (2017)

### Arizona State University

- An introduction to using R (2017)

## Guest Lectures

### University of Windsor

- The evolution of courtship signals and signal interactions (*in Animal communication – upper level undergraduate; ~100 students*)

### Arizona State University

- Neotropical bird biology (*in Fundamentals of Tropical Biology – undergraduate study abroad; ~15 students*)
- Diversity and communication: project ideas talk (*in Fundamentals of Tropical Biology– undergraduate study abroad; ~15 students*)
- Mating behavior and intra-sexual selection (*in Animal Behavior– upper level undergraduate; ~100 students*)
- One-factor ANOVA: confidence intervals, post hoc-tests (*in Biometry– upper level undergraduate/graduate; ~ 60 students*)
- Analysis of variance (*in Biometry– upper level undergraduate/graduate; ~60 students*)
- Avian social behavior (*in Ornithology– upper level undergraduate; ~15 students*)
- Avian natural history (*in Vertebrate Zoology– upper level undergraduate; ~100 students*)

## Co-taught Courses (I started, prepared the syllabus, and helped run the course)

### Arizona State University

- Seminar on Evolution of Animal Breeding Systems book (with Kevin McGraw)
- Seminar on Evolution of Insect Mating Systems book (with Ronald Rutowski)

## Teaching Assistantships

### Arizona State University

- Fundamentals of Tropical Biology (study abroad) - *assisted with hikes & student projects*
- Biometry (BIO 415/614) - *taught & graded two laboratory sections teaching R*
- Ornithology (BIO 471) - *taught & graded laboratory section, which included bird hikes*
- Vertebrate Zoology (BIO 370) - *taught & graded two dissection laboratory sections*

- Animal Behavior (BIO 331) - *assisted with lectures & graded class material*
- Animal Behavior (online; BIO 331) – *mentored & graded student projects*
- Conservation of Biodiversity (BIO 322) - *graded class material*

### Trinity University

- Integrated Biology 1 (BIO 1311) - *laboratory & lecture assistant*
- Integrated Biology 2 (BIO 1312) - *laboratory & lecture assistant*

## PROFESSIONAL PRESENTATIONS

### Invited Seminars

- 2018 Simpson, RK.** The evolution of complex courtship traits: covariation and interactions between hummingbird displays, plumage, and color appearance. *University of Western Ontario, London, ON, Canada.*
- Simpson, RK.** The evolution of complex visual courtship signals and signal interactions in hummingbirds. *University of Windsor, Windsor, ON, Canada.*
- Simpson, RK.** Evolución de la coloración y cortejos de apareamiento in colibríes (The evolution of hummingbird coloration and courtship displays). *Universidad Nacional de San Agustín de Arequipa, Arequipa, Peru.*
- 2017 Simpson, RK.** The evolution of hummingbird coloration and courtship displays. *University of Florida, Gainesville, FL, USA.*

### Invited Public Presentations

- 2018 Simpson, RK.** Mini-talk: Complex color communication. *Science on Tap: Birds and Beers II at Walkerville Brewery with University of Windsor, Windsor, ON, Canada.*
- 2017 Simpson, RK.** Evolution of hummingbird visual signals. *Appleton-Whittell Research Ranch of the Audubon Society Potluck and Presentations, Elgin, AZ, USA.*
- Simpson, RK.** The evolution of hummingbird coloration and courtship displays. *Maricopa Audubon Society Meeting, Scottsdale, AZ, USA.*

### Conference Presentations

\*Denotes undergraduate authorship

- 2019 Earl, AD, Kimmitt, AA, Simpson RK, Yorzinski, JL.** The function and mechanisms of female ornamentation in a lekking bird (talk). *Joint Meeting of the Animal Behavior Society & International Ethological Conference, Chicago, IL, USA.*
- Lietzenmayer, LB, **Simpson, RK**, Taylor, LA. It helps to be red: A comparative study of male coloration, sexual size dimorphism, and male size in salticids (talk). *International Congress of Arachnology, Canterbury, New Zealand.*
- Simpson, RK**, McGraw, KJ, Doucet, SM. The evolution of complex courtship traits: covariation and interactions between hummingbird displays, feather structure, and color appearance (poster). *Society for Integrative and Comparative Biology, Tampa, FL, USA.*

- 2018** **Simpson, RK** & McGraw, KJ. Evolution of signaling interactions between plumage coloration and courtship displays in hummingbirds (talk). *International Society for Behavioral Ecology, Minneapolis, MN, USA.*
- 2017** **Simpson, RK** & McGraw, KJ. The co-evolution of hummingbird coloration and courtship displays (talk). *Animal Behavior Society Meeting, Toronto, ON, Canada.*
- \*Givens, JL, **Simpson, RK**, McGraw, KJ. Male Anna's hummingbirds (*Calypte anna*) orient their shuttle display towards the sun (poster). *School of Life Sciences Undergraduate Research Program Symposium, Arizona State University, Tempe, AZ, USA.*
- \*Reed, S, **Simpson, RK**, McGraw, KJ. Peculiar plumage produces angle-dependence across parrot phylogeny (poster). *School of Life Sciences Undergraduate Research Program Symposium, Arizona State University, Tempe, AZ, USA.*
- 2016** **Simpson, RK**, \*Givens, JL, McGraw, KJ. Evolutionary patterns of hummingbird coloration (talk). *Society for Integrative and Comparative Biology Meeting, Portland, OR, USA.*
- Simpson, RK**, McGraw, KJ. The evolution of hummingbird coloration and courtship displays (poster). *International Society for Behavioral Ecology, Exeter, United Kingdom.*
- Simpson, RK**, Seymoure, BM, Moeller, KT. Conspicuousness of the venomous Gila monster as a function of age (talk). *International Society for Behavioral Ecology post-conference symposium on Anti-predator Coloration, Penryn, United Kingdom.*
- Simpson, RK** & McGraw, KJ. Evolution of hummingbird coloration and courtship displays (talk). *Arizona Field Ornithologist Meeting, Yuma, AZ, USA.*
- \*Givens, JL, **Simpson, RK**, McGraw, KJ. Relationships between courtship behavior, morphology, and structurally based plumage coloration in Anna's hummingbirds (*Calypte anna*) (poster). *School of Life Sciences Undergraduate Research Program Symposium, Arizona State University, Tempe, AZ, USA.*
- 2015** **Simpson, RK**. Speed talk on hummingbird color and courtship evolution (talk). *School of Life Sciences Graduate Seminar, Arizona State University, Tempe, AZ, USA*
- Simpson, RK**. The evolution of hummingbird visual signals (talk). *Science on the Sonoita Plain, Elgin, AZ, USA*
- \*Givens, JL, **Simpson, RK**, McGraw, KJ. Does insect availability affect nectar feeder visitation rates in Anna's hummingbirds (*Calypte anna*)? (poster) *School of Life Sciences Undergraduate Research Program Symposium, Arizona State University, Tempe, AZ, USA.*
- 2014** **Simpson, RK**. Migration distance and sexual dichromatism: a new hypothesis (talk). *School of Life Sciences Graduate Seminar, Arizona State University, Tempe, AZ, USA.*



- Simpson, RK** & McGraw, KJ. The role of a fluctuating environment on multimodal signals (talk). *Society for Integrative and Comparative Biology Meeting, Austin, TX, USA.*
- Simpson, RK**, Johnson, MA, Murphy, TG. The evolution of sexual dichromatism: wood-warblers exhibit increased dichromatism with greater migration distance (talk). *International Society of Behavioral Ecology, New York, NY, USA.*
- Simpson, RK** & McGraw, KJ. The role of a fluctuating environment on multimodal signals (talk). *International Ornithological Congress, Tokyo, Japan.*
- 2013** **Simpson, RK**. Dynamic environments, multi-modal signaling, and the role of receiver preferences (talk). *Gamboa Seminar Series, Gamboa, Panama.*
- Simpson, RK**. Dynamic environments, multi-modal signaling, and the role of receiver preferences (talk). *Tupper Behavior Seminar Series, Panama City, Panama.*
- Simpson, RK** & McGraw, KJ. The role of a fluctuating environment on multimodal signals (talk). *Animal Behavior Society Meeting, Boulder, CO, USA.*
- 2011** Keller, S, **Simpson, RK**, Ribble, D, Elaydi, S, Hasfura, R. Niche modeling using mathematical models (poster). *Joint Mathematics Meeting, New Orleans, LA, USA.*
- Keller, S, **Simpson, RK**, Hasfura, R, Elaydi, S, Ribble, R. Modeling mammalian geographic ranges using georeferenced environmental data and mathematical models (poster). *Texas Mammologist Society, Junction, TX, USA.*
- Simpson, RK**, Johnson, MA, Murphy, TG. The loss of female ornamentation: does the cost of migration favor sexual dichromatism in wood-warblers? (poster) *Joint Meeting of the Animal Behavior Society & International Ethological Conference, Bloomington, IA USA*
- 2010** **Simpson, RK** & Ribble, D. Changing geographic distributions of mammals around Bexar County, Texas (poster). *Southwestern Association of Naturalists, Junction, TX, USA.*

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## SERVICE

**Journal referee for:**

Animal Behaviour

Behavioral Ecology

Biology Letters

Ecology and Evolution

Evolution

Journal of Avian Biology

Nature Communications

Proceedings of the Royal Society B

Behaviour

Behavioral Ecology and Sociobiology

Canadian Journal of Zoology

Ethology Ecology and Evolution

Integrative Zoology

Journal of Ornithology

PLoS One

Science of Nature

**Grant Reviewing:****Arizona State University**

- 2014-2016** School of Life Sciences faculty, post-doc, and graduate student research grants  
**2014** School of Life Science Undergraduate Research program applications  
**2012-2014** Graduate and Professional Student Association travel and research grants  
**Trinity University**  
**2011-2012** Mind Science Foundation research grants

**University/Departmental Administration Service:**

**Arizona State University**

- 2017-2018** Graduate and Professional Student Association Supreme Court Justice  
*- reviewed cases of graduate student code violations*
- 2017** School of Life Sciences Ambassador to Alumni Coach  
*- taught new students in program how to contact alumni successfully*
- 2016-2017** School of Life Sciences Ambassador to Alumni  
*- contacted biology MSc/PhD alumni to reconnect them to our school*
- 2016-2017** Graduate and Professional Student Association Assembly Member  
*- promoted graduate student wellbeing; represented graduate students to the university; oversaw distribution of internal grants to graduate students*
- 2015** Graduate and Professional Student Association Assistant Director of New Initiatives - *helped create new graduate student grant to aid with interview travel*
- 2014-2016** School of Life Sciences Research and Training Initiative student representative  
*- represented graduate students within department; helped students seek out funding sources*

**Trinity University**

- 2011-2012** Biology Club President  
*- organized student-faculty social event; promoted student needs*
- 2010-2011** Biology Club Executive Leader  
*- organized student-faculty social and outreach events*

**Public Outreach:**

- 2018** London Bug Day outreach event at the London Children's Museum (London ON)  
*- helped show off neat bugs and run bug-themed activities for children*
- 2016** Presenter at pollinator-themed PLANeT Celebration at the Phoenix Desert Botanical Garden (Phoenix, AZ) - *presented information on hummingbirds*
- 2015** Bird Olympics instructor with Audubon Arizona (Phoenix, AZ)  
*- organized undergraduate student volunteers for children activities*
- 2013-2014** Bug-Theater outreach program participant (Phoenix, AZ)  
*- showcased local insect diversity to children using black lights*
- 2012-2014** Graduate Partners in Science Education Mentor (Phoenix, AZ)  
*- helped 7<sup>th</sup> & 8<sup>th</sup> grade students at low-income schools conduct projects for Phoenix Science Fair*

- 2012-Present** Ask a Biologist Question Answerer (<http://askbiologist.asu.edu>; Phoenix, AZ)  
- *answered questions posted online by students K-12*
- 2011-2012** Outreach booth at Michelle Lake Audubon Fall Festival (San Antonio, TX)  
- *organized and ran booth with biology-themed children activities*
- 2011** Animal Behavior Society Film Committee Member (San Antonio, TX)  
- *judged amateur and professional films submitted to society competition*
- 2011** Queens University Biological Station Public Science Fair (San Antonio, TX)  
- *showcased our research to public at field station*

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### PROFESSIONAL SOCIETY MEMBERSHIPS

Animal Behaviour Society	Canadian Society of Evolution and Ecology
Canadian Society of Zoologists	International Society for Behavioral Ecologist
Society of American Naturalists	Society for Integrative and Comparative Biology

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### REFERENCES

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