

**Dr. Susan Lynn Balenger**  
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## ACADEMIC RESEARCH APPOINTMENTS

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2022 - Researcher 2, Department of Ecology, Evolutionary Biology, and Behavior, University of Minnesota, USA  
2016 - 2022 Assistant Professor, Department of Biology, University of Mississippi, USA  
2012 - 2016 Postdoctoral Researcher, Department of Ecology, Evolutionary Biology, and Behavior, University of Minnesota, USA  
2011 - 2012 Postdoctoral Researcher, Division of Genetics and Physiology, Department of Biology, University of Turku, Finland

## HIGHER EDUCATION

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2006 - 2011 Ph. D., Department of Biological Sciences, Auburn University, USA  
2004 - 2008 M. S., Department of Biological Sciences, Towson University, USA  
1994 - 1998 B. S., Ecology, Evolutionary Biology and Behavior, University of Maryland-College Park  
Minor: Women's Studies

## FUNDED GRANTS, FELLOWSHIPS, and HONORS

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2022	Co-PI, NSF-IOS grant funded <i>Polyploidization, gene dosage, and the evolution of hormonal phenotypes</i> (PI: Chris Leary, co-PI Lainy Day; total \$1,450,000)	\$403,462
2021	Collaborator, UK-NERC grant funded (PI: Nathan Bailey; total \$665,000) <i>Genomics of Host-Parasite Coevolution: A Test of Arms Race vs. Red Queen Dynamics in a Wild Insect System</i>	\$15,000 (Balenger funds for travel)
2019	Weaving the Future of Animal Behavior participant (NSF funded program)	\$1000
2018	British Ecological Society Small Grant	\$4063
2012-2015	Academy of Finland Postdoctoral Research Fellowship	\$390,000
2012	Oskar Öflunds Research Grant	\$6250
2012	European Science Foundation Exchange Visit (to France) Grant	\$1885
2011	Kenneth Otis Distinguished Graduate Award in Physiology & Molecular Biosciences, Dept of Biological Sciences, Auburn U	
2008-2011	National Science Foundation-Experimental Program to Stimulate Competitive Research Graduate Fellowship	\$75,000
2010	American Ornithologists' Union Research Grant	\$2470
2010	Animal Behavior Society Research Grant	\$1080
2009	NSF Animal Behavior Research Grant (P.I.'s: G.E. Hill and S.V. Edwards)	\$600,000
2009	Gordon Conference in Evolutionary and Ecological Functional Genomics Travel Award	\$850
2008	American Ornithologists' Union student Travel Grant	\$400
2007	Society of Integrative and Comparative Biology Research Grant	\$1000
2006-2007	Research Fellow, Cellular and Molecular Biosciences, Auburn University	\$18,000
2006	National Science Foundation-East Asia & Pacific Summer Institute Research Fellowship, National Taiwan University	\$10,000
2004	Sigma Xi Grant In Aid of Research	\$500

- Professional advancement grants for travel and research from the University of Mississippi (multiple grants totaling approx. \$35,000 between 2017-2021), University of Minnesota (1 grant for \$400), Auburn University (3 grants totaling \$1400), and Towson University (3 grants totaling \$2000)

PEER-REVIEWED PUBLICATIONS (\*undergraduate co-author, <sup>T</sup>graduate co-author)

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**Balenger S.L.** (in prep for submission to *PeerJ*) Costs associated with *Mycoplasma gallisepticum* infection of Eastern Bluebirds (*Sialia sialis*).

<sup>T</sup>Sykes B.E., and **Balenger S.L.** (in revision, *Journal of Avian Biology*) Effects of increased nest temperature and age on nestling Eastern Bluebird (*Sialia sialis*) growth and heat shock protein expression.

Knutie S.A., Bertone M.A., \*Bahouth R., \*Webb C., \*Mehta M., \*Nahom M., \*Barta R.M., \*Ghai S., **Balenger S.L.**, Butler M.W., Kennedy A.C., Schultz E.M., Taff C.C., and Albery G.F. (in review, *Journal of Applied Ecology*) Understanding spatiotemporal effects of food supplementation on host-parasite interactions using community-based science. (*bioRxiv* doi.org/10.1101/2022.06.02.494595)

24. Sikkink K.L., Bailey N.W., Zuk M., and **Balenger S.L.** (2020) Immunogenetic and tolerance strategies against a novel parasitoid of wild field crickets. *Ecology & Evolution* 10: 13312-13326.
23. Heinen-Kay J. L., \*Strub D.B., **Balenger S.L.**, and Zuk M. (2019) Direct and indirect effects of sexual signal loss on female reproduction in the Pacific field cricket (*Teleogryllus oceanicus*). *Journal of Evolutionary Biology* 32: 1382-1390.
22. Gray D., \*Kunerth H., Zuk M., Cade, W. H., and **Balenger S.L.** (2019) Molecular biogeography and host relations of a parasitoid fly. *Ecology & Evolution* 9: 11476-11493.
21. **Balenger S.L.**, Bastiaans E., and Zuk M. (2018) Is it the song or the singers? Acoustic experience and social exposure during development shape adult male reproductive tactics and condition. *Journal of Insect Behavior* 31: 552-568.
20. Zuk M., Tanner J.C., \*Schmidtman E., Bee M.A., and **Balenger S.L.** (2017) Calls of recently introduced coqui frogs do not interfere with cricket phonotaxis in Hawaii. *Journal of Insect Behavior* 30: 60-69.
19. **Balenger S.L.**, \*Lara L.M., and Zuk M. (2017) Relative amplitude of courtship song chirp and trill components does not alter female *Teleogryllus oceanicus* mating behavior. *Ethology* 123: 168-173.
18. **Balenger S.L.**, and Zuk M. (2015) Roaming Romeos: male crickets evolving in silence exhibit increased locomotor behaviors. *Animal Behaviour* 101: 213-219.
17. **Balenger S.L.** (2015) Stridulated soft song in singing insects. *Animal Behaviour* 105: 275-280 (doi:10.1016/j.anbehav.2015.03.024).
16. **Balenger S.L.**, Bonneaud C., Sefick S., Zhang J., Edwards S.V., and Hill G.E. (2015) Plumage color and infection-induced gene expression in a wild bird. *Behavioral Ecology* 26: 1100-1110 (doi: 10.1093/beheco/arv055).
15. Zuk M. and **Balenger S.L.** (2014) Behavioral ecology and genomics: new directions, or just a more detailed map? *Behavioral Ecology* 1277-1282 (*invited perspective*).
14. Hill G. E., Fu X., **Balenger S. L.**, McGraw K. J., Girardeau M., and Hood W. R. (2013) Changes in concentrations of circulating heat shock proteins in wild songbirds in response to distinct environmental stressors. *Journal of Field Ornithology* 84: 416-424.

13. Bonneaud C., **Balenger S.L.**, Hill G.E., and Russell A.F. (2012) Experimental evidence for distinct costs of pathogenesis and immunity against a natural pathogen in a wild bird. *Molecular Ecology* 21: 4787-4796 (doi: 10.1111/j.1365-294X.2012.05736.x).
12. Bonneaud C., **Balenger S.L.**, Zhang J., Edwards S.V., and Hill G.E. (2012) Innate immunity and the evolution of resistance to an emerging infectious disease in a wild bird. *Molecular Ecology* 21: 2628-2639 (doi: 10.1111/j.1365-294X.2012.05551.x).
11. **Balenger S.L.**, McClure C. J. M. and Hill G.E. (2012) Primer design and transcript quantification of a highly multiplexed RT-PCR for a non-model avian species, *Carpodacus mexicanus*. *Molecular Ecology Resources* 12: 116-122 (doi: 10.1111/j.1755-0998.2011.03058.x).
10. Delaney N., **Balenger S.L.**, Bonneaud C., Marx C., Hill, G.E., Ferguson-Noel N., Tsai P., Roderigo A., and Edwards S.V. (2012) Ultrafast evolution and loss of CRISPRs following host shift in a novel wildlife pathogen, *Mycoplasma gallisepticum*. *PLoS Genetics* 8: e1002511 (doi:10.1371/journal.pgen.1002511).
9. Bonneaud C., **Balenger S.L.**, Russell A.F., Zhang J., Hill G.E., and Edwards S.V. (2011) Rapid evolution of disease resistance is accompanied by functional changes in gene expression in a wild bird. *Proceedings of the National Academy of Sciences* 108: 7866-7871 (doi: 10.1073/pnas.1018580108).
8. **Balenger S.L.**, Johnson L.S., and Masters B.S. (2009) Sexual selection in a socially monogamous bird: male color predicts reproductive success in the mountain bluebird (*Sialia currucoides*). *Behavioral Ecology and Sociobiology* 63:403-411 (doi: 10.1007/s00265-008-0674-5).
7. **Balenger S.L.**, Johnson L.S., Mays H., and Masters B.S. (2009) Extra-pair paternity in the strongly sexually dichromatic Mountain Bluebird and its effect on the opportunity for sexual selection. *Journal of Avian Biology* 40:173-180 (doi: 10.1111/j.1600-048X.2009.04521.x).
6. **Balenger S.L.**, Johnson L.S., \*Brubaker J., and \*Ostlind E. (2007) Parental effort in relation to structural plumage coloration in the mountain bluebird (*Sialia currucoides*). *Ethology* 113: 838-846 (doi: 10.1111/j.1439-0310.2007.01386.x).
5. Johnson L.S., \*Ostlind E., \*Brubaker J., and **Balenger S.L.** (2006) Variation in parental provisioning effort along an elevational gradient in a population of mountain bluebirds (*Sialia currucoides*). *Journal of Ornithology* 148:9-16.
4. Johnson L.S., \*Ostlind E., \*Brubaker J., **Balenger S.L.**, Johnson B.G., and Golden H. (2006) Changes in egg size and clutch size with elevation in a Wyoming population of mountain bluebirds. *The Condor* 108: 591-600.
3. Shawkey M.D., **Balenger S. L.**, Hill G.E., Johnson L.S., Keyser A.J., and Siefferman L. (2006) Mechanisms of evolutionary change in structural plumage coloration among bluebirds (*Sialia* spp.). *Journal of the Royal Society – Interface* 3: 527-532.
2. Wagner K.F., Hellberg A.K., **Balenger S.L.**, Depping R., Dodd-O J., Johns R.A., and Li D. (2004) Hypoxia induced mitogenic factor has antiapoptotic action and is upregulated in the developing lung: coexpression with hypoxia-inducible factor-2 alpha. *American Journal of Respiratory Cellular Molecular Biology* 31:276-282.
1. Rohr J., Sarkar N., **Balenger S.L.**, Jeong B., and Cerutti H. (2004) Tandem inverted repeat system for selection of effective transgenic RNAi strains in *Chlamydomonas reinhardtii*. *The Plant Journal* 40:611-621.

## OTHER RESEARCH & PROFESSIONAL EXPERIENCE

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- 2002 - 2004 Cell Culture Core Facility Manager and General Laboratory Technician, Department of Anesthesiology and Critical Care Medicine, Johns Hopkins University
- 2000 - 2002 Research Technician, Center of Biotechnology, University of Nebraska
- 1999 - 2000 Intern, National Breeding Bird Survey, Patuxent Wildlife Research Center,
- 1998 - 1999 Environmental Educator, Adirondack Park AmeriCorps, Indian Lake School (K-12), NY

## TEACHING EXPERIENCE

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- 2017 – 2022 Instructor, *Infectious Disease Ecology*, University of Mississippi (3 cr.)
- 2017 – 2022 Instructor, *Evolution*, Department of Biology, University of Mississippi (3 cr.)
- 2016 Lecturer, *Animal Behavior*, Department of Biology, St. Catherine's University (4 cr.)
- 2015 Co-Instructor, *Sex, Gender, and Animal Behavior*, Honors College, University of Minnesota (3 cr.)
- 2008 Teaching Assistant, *General Biology for Non-Majors*, Department of Biological Sciences, Auburn University
- 2008 Teaching Assistant, *Ornithology*, Department of Biological Sciences, Auburn University
- 2007 Teaching Assistant, *Genetics*, Department of Biological Sciences, Auburn University
- 2004-2006 Teaching Assistant, *General Biology for Non-Majors*, Department of Biological Sciences, Towson University (6 semesters)

### Guest lecturer:

Advanced Evolutionary Biology (Auburn University), Animal Behavior (University on Minnesota), Behavioral Genetics (University of Turku), Birds of the World (Auburn University), Comparative Genomics (Auburn University), Evolution and Biology of Sex (University of Minnesota), General Biology for Non-Majors (Towson University), Symbiosis (University of Mississippi)

## INVITED SYMPOSIA TALKS & DEPARTMENT SEMINARS

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Adaptation, plasticity, and adaptive plasticity: Host defense strategies following acquisition of novel parasites

- Department of Biology, Arkansas State University, 2022
- Department of Biology, University of Louisville, 2021

Sexy finches and silent crickets: Parasite mediated elaboration and loss of sexually selected traits

- Department of Biological Sciences, University of Memphis, 2018
- Dept of Biological Sciences, Southeastern Louisiana University, 2017
- Dept of Biological Sciences, Mississippi State University, 2017
- Dept of Integrative Biology, Oregon State University, 2017
- Dept of Biology, Appalachian State University, 2016
- Dept of Biology, University of Mississippi, 2016
- Division of Ecology, Behavior and Evolution, University of California, San Diego, 2016
- Dept of Integrative Biology, University of South Florida, 2015

Insights from wild birds into control of poultry diseases

- Department of Poultry Sciences, University of Georgia, 2015

High, low, and no amplitude signalling: courtship song in moths and crickets

- Animal Behavior Society, Princeton, New Jersey, 2014
- Behavior Seminar, Dept of Ecology, Evolution and Behavior, University of Minnesota, 2014

Testing the Hamilton-Zuk hypothesis with 21<sup>st</sup> century genetics tools

- Society of Integrative and Comparative Biology, Austin, Texas, 2014

Rapid Evolution in Silence: Adaptive Signal Loss in the Pacific Field Cricket

- Dept of Biology, Rollins College, 2015
- Dept of Biology, St. Catherine University, 2013

The Degenerate Male: Sex Chromosome Evolution in the Threespined Stickleback

- Edward Grey Institute of Ornithology, Oxford University, UK 2012

Evolution of Pathogen-Induced Gene Expression in the House Finch, *Carpodacus mexicanus*

- Centre for Biological Diversity, University of St. Andrews, UK 2014
- Darwin Day Speaker, Dept of Biological Sciences, Carleton College, 2013
- Behavior Seminar, Dept of Ecology, Evolution and Behavior, University of Minnesota, 2012
- Dept of Biology, University of Turku, Finland 2011
- College of Veterinary Sciences, Auburn University, 2009

Sexual Selection in a Socially Monogamous Bird: Male Color and Paternity in the Mountain Bluebird

- Behavior Seminar, Dept of Ecology, Evolution and Behavior, University of Minnesota, 2012
- Dept of Biological Sciences, Auburn University, 2008

SELECTED CONFERENCE PRESENTATIONS (List includes only first author presentations)

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- 2020 Rapid evolution of immunogenetic and tolerance strategies against a novel parasitoid in wild insects. Society of Integrative and Comparative Biology, Austin, TX (oral)
- 2019 *Mycoplasma gallisepticum* infection induces mass loss and lethargy but not anorexia in Eastern Bluebirds (*Sialia sialis*). Animal Behavior Society, Chicago, IL (poster)
- 2019 Costs associated with *Mycoplasma gallisepticum* infection of Eastern Bluebirds (*Sialia sialis*). Annual Meeting of the Society of Integrative and Comparative Biology, Tampa, FL (oral)
- 2018 Population variation in behavioral plasticity in response to evolution in divergent acoustic environments. International Society of Behavioral Ecology, Minneapolis, Minnesota (poster)
- 2017 Field crickets evolving in silence exhibit increased investment in alternative reproductive tactics. Annual Meeting of the Society of Integrative and Comparative Biology, New Orleans, Louisiana (oral)
- 2016 Acoustic and social experiences shape adult male reproductive tactics and condition. International Society of Behavioral Ecology, Exeter, UK (oral)
- 2016 Acoustic environment and social exposure during development shape adult male reproductive tactics and condition. Annual Meeting of the Society of Integrative and Comparative Biology, Portland, Oregon (oral)
- 2015 It's the song, not the singers: Acoustic experience is more important than population density in shaping male field cricket alternative mating tactics. Animal Behavior Conference, Bloomington, Indiana, USA (oral)
- 2015 \*Effect of immune challenge at varied life history stages on male courtship song in a cricket. Midwestern Ecology and Evolution Conference, Bloomington, Indiana, USA (Xinci Tan, oral)
- 2014 Roaming Romeos: Evolution in silence selects for male crickets with increased locomotory behaviors. International Society of Behavioral Ecology, New York, New York, USA (oral)
- 2013 Does exposure to sexual signals during rearing affect adult male search behavior? Animal Behavior Society, Boulder, Colorado, USA (poster)

- 2013 Genetic and calling song variation in the Pacific field cricket, *Teleogryllus oceanicus*, across a wide geographical range. Society for the Study of Evolution, Snowbird, Utah, USA (poster)
- 2013 Plumage color predicts infection-induced gene expression in a wild bird. Society for the Study of Evolution, Snowbird, Utah, USA (oral)
- 2012 Y chromosome degeneration in the threespine stickleback. Workshop in Evolution of Sex-Determination Mechanisms, La Sage, Switzerland (oral)
- 2010 Plumage color predicts infection-induced gene expression in a wild bird. International Conference of New Directions in Sexual Selection Research: Unifying Behavioural and Genomic Approaches, Bath, UK (oral)
- 2009 Genomics of a host-parasite coevolutionary interaction. EMBO World Practical Course in Advanced Bioinformatics of Gene and Genome Evolution, Medellin, Columbia (oral)
- 2009 Searching for good genes in a wild songbird. National NSF-EPSCoR Conference, Washington, DC, USA (poster)
- 2009 Plumage color predicts pathogen-induced gene expression in a wild songbird. Gordon Research Conference in Evolutionary and Ecological Functional Genomics, Tilton, New Hampshire, USA (poster)
- 2008 Searching for good genes in the house finch. 12th International Society of Behavioral Ecology Conference, Ithaca, NY, USA (poster)
- 2008 Sexual selection in a socially monogamous bird: male color and paternity in the mountain bluebird. Annual Meeting of the American Ornithologists' Union, Portland, Oregon, USA (oral)
- 2008 Gene expression and parasite-mediated sexual selection in the house finch. Annual Meeting of the Society of Integrative and Comparative Biology, San Antonio, Texas, USA (poster)
- 2005 Does male UV-blue color indicate parental effort in Mountain Bluebirds? Joint meeting of the Association of Field Ornithologists and the Wilson Ornithological Society, College Park, Maryland, USA (oral)

#### CONFERENCE PRESENTATIONS BY GRADUATE AND UNDERGRADUATE CO-AUTHORS

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- 2020 Costs of immunity vs. costs of infection: is the relationship between humoral immunity and corticosterone context dependent? Annual Meeting of the Society of Integrative and Comparative Biology, Austin, TX (oral – Josh Smith, undergraduate Honors student)
- 2020 Mother Knows Best: Immune-based Maternal Effects in Response to *Mycoplasma gallisepticum* Infection in Eastern Bluebirds (*Sialia sialis*). Annual Meeting of the Society of Integrative and Comparative Biology, Austin, TX (oral – Sarah Amonett, MS student)
- 2020 Nest Microclimate Manipulation Affects Growth, Development, and Physiology in the Eastern Bluebird (*Sialia sialis*). Annual Meeting of the Society of Integrative and Comparative Biology, Austin, TX (oral – Brooke Sykes, MS student)
- 2019 Nest microclimate influences physiology and development in the eastern bluebird (*Sialia sialis*). Annual Meeting of the Association of Southeastern Biologists. Memphis, TN. (oral – Brooke Sykes, MS student)
- 2019 Nest microclimate influences physiology and development in the eastern bluebird (*Sialia sialis*). Annual Meeting of the Society of Integrative and Comparative Biology, Tampa, FL (poster – Brooke Sykes, MS student)

- 2019 Maternal effects in response to *Mycoplasma gallisepticum* infection in Eastern Bluebirds. Annual Meeting of the Association of Southeastern Biologists, Memphis, TN (oral – Sarah Amonett, MS student)
- 2019 Maternal effects in response to *Mycoplasma gallisepticum* infection in Eastern Bluebirds. Annual Meeting of the Society of Integrative and Comparative Biology, Tampa, FL (poster – Sarah Amonett, MS student)
- 2018 Nest microclimate influences physiology and development in the eastern bluebird (*Sialia sialis*). University of Mississippi Science Day Conference and Celebration, Oxford, MS (poster – Brooke Sykes, MS student)
- 2018 Maternal effects & fitness in response to a natural pathogen of Eastern Bluebirds. University of Mississippi Science Day Conference and Celebration, Oxford, MS (poster – Sarah Amonett, MS student)
- 2015 Effect of immune challenge at varied life history stages on male courtship song in a cricket. Animal Behavior Conference, Bloomington, Indiana, USA (poster – Xinci Tan, undergraduate researcher)
- 2015 Effect of the Coqui frog call on *Teleogryllus oceanicus*. Midwestern Ecology and Evolution Conference, Bloomington, Indiana, USA (oral – Libby Schmidtman, undergraduate researcher)

#### POSTDOCTORAL RESEARCHERS SUPERVISED

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##### *University of Mississippi*

Dr. Kristin Sikkink (April 2018 – December 2019)

#### GRADUATE STUDENTS SUPERVISED

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##### *University of Mississippi*

Brooke Sykes, M.S. (August 2017 – May 2020) – Ph. D. student, University of Arizona

Sarah Amonett, M.S. (August 2017 – May 2020) – Instructor, Southern Arkansas University

#### GRADUATE COMMITTEE MEMBER

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##### *University of Mississippi*

Marcella Santos, Ph.D. (March 2017 – May 2020)

Sarah Russel, M.S. (August 2017 – May 2019)

Maya Kaup, M.S. (August 2017 – May 2020)

Tyler Casada, M.S. (December 2018 – May 2021)

Emma Counce, M.S. (August 2021 – present)

##### *Appalachian State University*

Sarah Hill, M.S. (January 2020 – present)

#### UNDERGRADUATE RESEARCH MENTORING

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##### *University of Mississippi*

Hetal Shingrani (August 2020 – May 2022), Honors Thesis, “Transmission efficacy of *Mycoplasma gallisepticum* between natural host species”

Taylor Cabrera (February 2019 - May 2021), Directed Research, “Does host feather plumage coloration relate to likelihood of pathogen infection”

Cole Becker (August 2019 – May 2022), Directed Research, “Rate of infection of wild songbirds in Mississippi with *Mycoplasma gallisepticum* during the breeding season”

- Joshua Smith (January 2019 – May 2020), Honors Thesis, “Costs of immunity vs. costs of infection: is the relationship between humoral immunity and corticosterone context dependent?”
- McKenzie Denton (January 2018 – May 2019), Honors Thesis, “Effects of vertical transmission of maternal antibodies to *Mycoplasma gallisepticum* on growth and condition of Eastern Bluebird (*Sialia sialis*) nestlings”
- Gurshan Kuar (January 2018 – May 2019), Honors Thesis, “Effects of transmission of the pathogen *Mycoplasma gallisepticum* on growth and condition of Eastern Bluebird (*Sialia sialis*) nestlings”
- Meredith Fry (January 2018 – May 2019), Honors Thesis, “Effects of *Mycoplasma gallisepticum* on experimentally infected Eastern Bluebirds (*Sialia sialis*)”
- William Brock (August 2017 – May 2019), Directed Research, “Song preference by a multi-host parasitoid of field crickets”

#### *University of Minnesota*

- Kirstine Grab (August 2015 – December 2016), “Satellite behavior of field crickets evolving in silence”
- Xinci Tan (April 2014 – May 2016), “Behavioral adaptation to high density conditions by commercially bred *Acheta domesticus*” (Undergraduate Research Opportunities fellowship winner 2015)
- Elizabeth Schmidtman (July 2013 – January 2016), “Effects of Coqui frog calls on field cricket mating behavior” (Undergraduate Research Opportunities fellowship winner 2015)
- Laura Peterson (March 2014-December 2014), “The effect of amplitude modulation of male cricket courtship song on female phonotaxis behavior” (laboratory technician at University of Minnesota)
- Henry Kunerth (March 2013-Aug 2014), “Genetic and geographic variation in the acoustically-orienting fly *Ormia ochracea*” (Undergraduate Research Opportunities fellowship winner 2015; began PhD in Evolutionary Biology at Cornell University Fall 2014)
- Ryan Duffy (November 2013-November 2014), “Fecundity of flatwing and normal winged female field crickets” (graduated from University of Minnesota College of Biological Sciences Summer 2014)
- Paul Swim (June 2013-Aug 2014), “Reproductive behavior after immune challenge in the Pacific field cricket” (began MS in Animal Behavior at Salisbury University Fall 2014)
- Zach Emberts (October 2012-May 2013), “The effect of rearing environment on female preference for male courtship song” (Postdoctoral Fellow University of Florida Fall 2014)

#### *Auburn and Towson Universities*

- Emily Brennan (August 2009-May 2011), “Do maternal antibodies protect songbird nestlings from infection with a natural bacterial pathogen?” (completed MPH at Emory University 2015, currently a statistical analyst at the Mayo Clinic)
- Jessica Brubaker (May 2004-July 2004), “Parental effort by high and low altitude breeding pairs of Mountain Bluebirds” (completed MS at Tufts University 2009, currently a laboratory technician)
- Emilene Ostlind (May 2003- July 2003), “Parental effort by high and low altitude breeding pairs of Mountain Bluebirds” (editor, *Confluence* magazine, University of Wyoming)

## PROFESSIONAL SERVICE

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### Manuscript Review:

*American Naturalist, Amphibia-Reptilia, Animal Behaviour, Annales Zoologica Fennici, Auk: Ornithological Advances, Behavioral Ecology, Behaviour, Behavioural Processes, Biological Journal of the Linnean Society, Biology Letters, Ecology and Evolution, Ethology, Evolution Letters, Experimental Gerontology, Heredity, Ibis, Integrative and Comparative Biology, Journal of Avian Biology, Journal of Evolutionary Biology, Journal of Field Ornithology, PeerJ, Proceedings of the Royal Society of London Series B, Molecular Ecology, Southeastern Naturalist, Wilson Journal of Ornithology*



### NSF Review:

2019 DEB onsite panel reviewer, 2017 IOS onsite panel reviewer,  
2020 *ad hoc* DEB reviewer, 2016, 2022 *ad hoc* IOS reviewer

### Other Service Activities:

- Founding mentor, SEEDS ESA chapter University of Mississippi, 2021
- Biology department DEI committee, 2021
- Session co-chair, "Two to tango: Host-parasite interactions," Society of Integrative and Comparative Biology Meeting, Austin, Texas 2020
- Animal Behavior Society student research grant reviewer 2020
- Major advisor for 20-30 biology majors each semester, 2017- present
- Faculty search committee member, Fall 2019-Spring 2020
- Biology department Graduate Selection Committee, 2018 – present
- Invited speaker; Led graduate student skills workshop at the University of Mississippi, "Gender equity in science careers," 2019
- Invited speaker; Spoke with University of Mississippi undergraduate non-science majors about my personal journey in STEM, 2019
- Invited speaker; Oxford Science Café, a local monthly event where researchers present their work to the general public, 2019
- Affiliate graduate faculty status, Appalachian State University, Spring 2019-present
- Graduate Admissions Committee, Department of Biology, University of Mississippi, September 2018- present
- STEM Camp for Girls, University of Mississippi, Summer 2018 - present
- STEM Camp for Boys, University of Mississippi, Summer 2018 - present
- Ecology Day Camp, University of Mississippi Field Station, 2018 - present
- Science Day Volunteer, University of Mississippi Field Station, 2017
- Teacher, "What Is A Scientist?" SICB Outreach event for 7-8<sup>th</sup> grade students at LH Marrero Middle School, Jefferson Parish, Louisiana, 2017
- Session chair, "Mating systems and strategies," Society of Integrative and Comparative Biology Meeting, New Orleans, Louisiana, 2017
- Session co-chair, "Courtship and Mating," Society of Integrative and Comparative Biology Meeting, Portland, Oregon, 2016
- Took directed research undergraduate students to the CISAB Animal Behavior Conference and the Midwestern Ecology and Evolution Conference where they presented posters and gave oral presentations of their research, Bloomington, Indiana, 2015
- Expert panel member, "The Nature of Research," University of Minnesota, 2014
- International Society of Behavioral Ecology abstract reviewer for 2014 biannual meeting
- College of Biological Sciences Welcome Week Volunteer, University of Minnesota, 2013, 2014
- Behavior Outreach Fair, "Insect Love Songs," Animal Behavior Society annual meeting, 2013
- Regional Science Olympiad Ornithology Coordinator, 2010
- Education Committee Member, North American Bluebird Society, 2007-2009