

ROBIN M. TINGHITELLA

Department of Biological Sciences
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Education and Training

Ph.D. University of California - Riverside, 2008
Evolution, Ecology, & Organismal Biology
Advisor: Marlene Zuk; Committee Members: Cheryl Hayashi, Derek Roff

B.S. University of Portland, 2002
Biology, Magna Cum Laude

Professional Experience

2020- Associate Professor, Department of Biological Sciences, University of Denver
2013-20 Assistant Professor, Department of Biological Sciences, University of Denver
2010-13 Postdoctoral Researcher in the laboratories of Drs. Janette Boughman and Thomas Getty, and Co-PI and Project Manager of Kellogg Biological Station's Graduate STEM Fellows in K-12 Education (GK-12) Program. Department of Zoology, Michigan State University
2009-10 Postdoctoral Researcher in the laboratory of Dr. Elizabeth Tibbetts, Department of Ecology and Evolutionary Biology, University of Michigan
2008-9 Project Manager of Kellogg Biological Station's Graduate STEM Fellows in K-12 Education (GK-12) Program. Department of Zoology, Michigan State University

Awards and Other Recognition

2020 **Faculty Career Champion**. Nominated by graduating students for supporting student career and post-graduation goals.
2020 **Community Engaged Teaching Fellow**. University of Denver, Office of Teaching and Learning.
2019 **Excellence in Research, Departmental Winner**. Nominee for the Division of Natural Sciences and Mathematics, University of Denver.
2019 **Faculty Career Champion**. Nominated by graduating students for supporting student career and post-graduation goals.
2018 **Excellence in Teaching, Departmental Winner**. Nominee for the Division of Natural Sciences and Mathematics, University of Denver.
2018 **Faculty Career Champion**. Nominated by graduating students for supporting student career and post-graduation goals.
2017 **Faculty Career Champion**. Nominated by graduating students for supporting student career and post-graduation goals.
2016 **Excellence in Service, Departmental Winner**. Nominee for the Division of Natural Sciences and Mathematics, University of Denver.
2014 **Outstanding Junior Faculty, Departmental Winner**. Nominee for the Division of Natural Sciences and Mathematics, University of Denver.
2008 **Warder Clyde Allee Award** for Best Paper and Presentation, awarded to a single newly minted PhD each year, Animal Behavior Society.

- 2006 **Excellence in Teaching Award**, Department of Evolution, Ecology, and Organismal Biology, University of California - Riverside.
- 2006 **Best Poster**, Sex Matters Conference, University of California - Riverside.
- 2004 **National Science Foundation Graduate Research Fellowship Program**, Honorable Mention.
- 2003 **Evolution and Ecology Graduate Research Umbrella Fellowship**, University of California.
- 2003 **PEARL and Fletcher Jones Fellowships**, University of California.

Peer-Reviewed Publications

** denotes undergraduate student co-author

^ denotes co-first authors

* denotes graduate student co-author

41. Smith, T.**, Broder, E.D., **Tinghitella, R.M.**, Ingley, S. *In Press*. Using inter-institutional collaboration to generate publishable findings through course-based undergraduate research experiences. [American Biology Teacher](#).
40. **Tinghitella, R.M.**^, Broder, E.D.^, Gallagher, J.H.*, Wikle, A.*, Zonana, D.M. 2021. Responses of intended and unintended receivers to a novel sexual signal suggest clandestine communication. [Nature Communications](#). 12: 797.
39. Broder, E.D., Elias, D.O., Rodriguez, R., Rosenthal, G.G., Seymoure, B., **Tinghitella, R.M.** 2021. Evolutionary novelty in communication between the sexes. [Biology Letters](#).16: 20200733.
38. Broder, E.D., Wikle, A.W.**, Gallagher, J.H.* & **Tinghitella, R.M.** 2021. Substrate-borne vibration in *Teleogryllus oceanicus* courtship displays. [Journal of Orthoptera Research](#).
37. **Tinghitella, R.M.**, Lackey, A.C.R., Durso, C., Koop, J.A.H., Boughman, J.W. 2020. The ecological stage changes benefits of mate choice and drives preference divergence. [Philosophical Transactions of the Royal Society B](#). 375: 20190546.
36. Bowen, A.E.**, Gurule-Small, G.A.* & **Tinghitella, R.M.** 2020. Anthropogenic noise reduces male reproductive investment in an acoustically signaling insect. [Behavioral Ecology and Sociobiology](#). 74:103.
35. Jenck, C.S.*, Lehto, W.R.*, Ketterman, B.T.**, Sloan, L.F.**, Sexton, A.N.**, **Tinghitella, R.M.** 2020. Phenotypic divergence between stickleback that differ in nuptial coloration. [Evolution and Ecology](#). <https://doi.org/10.1002/ece3.6105>
34. Wilson, J.D.*, Anner, S.C.**, Murphy, S.M. & **Tinghitella, R.M.** 2020. Consequences of advanced maternal age on reproductive investment of male offspring. [Journal of Orthoptera Research](#). 29(1): 71-76.
33. Lehto, W.* and **Tinghitella, R.M.** 2019. Predator-induced maternal and paternal effects independently alter sexual selection in the threespine stickleback. [Evolution](#). 74(2): 404-418.
32. Larson, E.L., **Tinghitella, R.M.**, Taylor, S.A. 2019. Insect hybridization and climate change. [Frontiers in Ecology and Evolution](#). 7:348.

31. Vidal, M.C.* , Quinn, T.W., Stireman, J.O., **Tinghitella, R.M.**, Murphy, S.M. 2019. Geography is more important than host plant use for the population genetic structure of a generalist insect herbivore. Molecular Ecology. 28: 4317-4334.
30. Broder, E.D., Guilbert, K.E., Ghalambor, C.K., **Tinghitella, R.M.**, Murphy, S.M., Angeloni, L.M. 2019. Authentic science with dissemination increases self-efficacy of middle school students. Integrative and Comparative Biology. 59(6): 1497-1508.
29. Keagy, J., Minter, R.M.* and **Tinghitella, R.M.** 2019. Sex differences in cognition and their relationship to male mate choice. Current Zoology. 65(3): 285-293.
28. Gurule-Small, G.A.* & **Tinghitella, R.M.** 2019. Life history consequences of developing in anthropogenic noise. Global Change Biology. 25(6): 1957-1966.
27. Lehto, W.* and **Tinghitella, R.M.** 2019. Joint maternal and paternal stress increases the cortisol in their daughters' eggs. Evolutionary Ecology Research. 20: 133-144.
26. **Tinghitella, R.M.**, Broder E.D., Gurule-Small G.A.* , Hallagan, C.* , Wilson, J*. 2018. Purring crickets: The evolution of a novel sexual signal. The American Naturalist. 192(6): 773-782.
25. **Tinghitella, R.M.**, Lackey, A.R., Martin, M., Dijkstra, P., Drury, J.P., Heathcote, R., Keagy, J., Scordato, E.S.C., & Tyers, A. 2018. A major player need not be the only player in speciation: a response to comments on Tinghitella et al. Behavioral Ecology. 29(4): 802-803.
24. Lehto, W.R.* , Murphy, S.M., Vidal, M.C.* , & **Tinghitella, R.M.** 2018. Life tables, Darwin's finches, and the dynamics of small island populations. National Center for Case Study Teaching in Science. http://sciencecases.lib.buffalo.edu/cs/collection/detail.asp?case_id=987&id=987.
23. Gurule-Small, G.A.* & **Tinghitella, R.M.** 2018. Developmental experience with anthropogenic noise hinders adult mate location in an acoustically signaling invertebrate. Biology Letters. 14: 20170714.
22. Tibbetts, E.A., Fearon, M.L., Wong, E., Huang, Z. & **Tinghitella, R.M.** 2018. Rapid juvenile hormone downregulation in subordinate wasp queens facilitates stable cooperation. Proceedings of the Royal Society B: Biological Sciences. 285: 20172645.
21. **Tinghitella, R.M.**, Lehto, W.R.* & Lierheimer, V.F.**. 2018. Color and behavior differently predict competitive outcomes for divergent stickleback color morphs. Current Zoology. 64(1): 115-123.
20. **Tinghitella, R.M.**, Lackey, A.R., Martin, M., Dijkstra, P., Drury, J.P., Heathcote, R., Keagy, J., Scordato, E.S.C., & Tyers, A. 2017. On the role of male competition in speciation: a review and research agenda. Behavioral Ecology. 29(4): 783-797. -- Recognized as a highly cited paper in 2019.
19. Vidal, M.C.* , Grenis, K.* , Lehto, W.R.* , **Tinghitella, R.M.** & Murphy, S.M. 2017. Butterfly Hunt: the role of density dependence in Batesian and Mullerian mimicry. National Center for Case Study Teaching in Science. http://sciencecases.lib.buffalo.edu/cs/collection/detail.asp?case_id=946&id=946.

18. Grenis, K.*, Lehto, W.R.*, Murphy, S.M., Vidal, M.C.* & **Tinghitella, R.M.** 2017. Animals on treadmills: the importance of basic research. National Center for Case Study Teaching in Science. http://sciencecases.lib.buffalo.edu/cs/collection/detail.asp?case_id=926&id=926.
17. Minter, R.*, Keagy, J., & **Tinghitella, R.M.** 2017. The relationship between male sexual signals, cognitive performance, and mating success in stickleback fish. Ecology and Evolution. 7(15): 5621-5631.
16. Lierheimer, V.F.** & **Tinghitella, R.M.** 2017. Quality and quantity of available mates alters female responsiveness but not investment in the Pacific field cricket, *Teleogryllus oceanicus*. Behavioral Ecology and Sociobiology. 71(5): 80.
15. Murphy, S.M., Battocletti, A.H.*, **Tinghitella, R.M.**, Wimp, G.M., & Ries, L. 2016. Complex community and evolutionary responses to habitat fragmentation and habitat edges: what can we learn from insect science? Current Opinions in Insect Science. 14:61-65.
14. Weigel, E.G.*, **Tinghitella, R.M.**, & Boughman, J.W. 2015. No evidence for variation in reproductive investment under alternative mate availability regimes. Journal of Fish Biology. 88:508-522.
13. **Tinghitella, R.M.**, Stehle, C.**, & Boughman, J.W. 2015. Females sample more males at high nesting densities, but ultimately obtain less attractive mates. BMC Evolutionary Biology. 15:200.
12. **Tinghitella, R.M.**, Lehto, W.R.*, & Minter, R.* 2015. The evolutionary loss of a badge of status alters male competition in the threespine stickleback. Behavioral Ecology. 26: 609-616.
11. **Tinghitella, R.M.** 2014. Male and female crickets modulate courtship behaviour depending on females' experience with mate availability. Animal Behaviour. 91: 9-15.
10. **Tinghitella, R.M.**, Weigel, E.G.*, Head, M., & Boughman, J.W. 2013. Flexible mate choice when mates are rare and time is short. Ecology and Evolution. 3(9): 2820-2831.
9. **Tinghitella, R.M.**, Zuk, M., Beveridge, M., & Simmons, L.W. 2011. Island hopping introduces Polynesian field crickets to novel environments, genetic bottlenecks, and rapid evolution. Journal of Evolutionary Biology. 24(6): 1199-1211.
8. Tibbetts, E.A., Izzo, A., & **Tinghitella, R.M.** 2011. Juvenile hormone titer and quality are associated with timing of early spring activity in *Polistes dominulus* foundresses. Insectes Sociaux. 58: 473-478.
7. Simmons, L.W., **Tinghitella, R.M.** & Zuk, M. 2010. Quantitative genetic variation in courtship song, and its covariation with immune function and sperm quality in the field cricket *Teleogryllus oceanicus*. Behavioral Ecology. 21(6): 1330-1336.
6. Fullard, J.H., ter Hofstede, H.M., Ratcliffe, J.M., Pollack, G.S., Brigidi, G.S., **Tinghitella, R.M.**, & Zuk, M. 2010. Release from bats: genetic distance and sensoribehavioural regression in the Pacific field cricket, *Teleogryllus oceanicus*. Naturwissenschaften. 97: 53-61.

5. **Tinghitella, R.M.** & Zuk, M. 2009. Asymmetric mating preferences accommodated the rapid evolutionary loss of a sexual signal. Evolution. 63: 2087-2098.
4. **Tinghitella, R.M.**, Wang, J.M.** & Zuk, M. 2009. Pre-existing behavior renders a mutation adaptive: flexibility in male phonotaxis and the loss of singing ability in the cricket *Teleogryllus oceanicus*. Behavioral Ecology. 20: 722-728.
3. **Tinghitella, R.M.** 2008. Rapid evolutionary change in a sexual signal: Genetic control of the mutation "flatwing" that renders male field crickets (*Teleogryllus oceanicus*) mute. Heredity. 100: 261-267.
2. Ayoub, N.A., Garb, J.E., **Tinghitella, R.M.**, Colin, M.A. & Hayashi, C.Y. 2007. Blueprint for a high-performance biomaterial: Full-length spider dragline silk genes. PLoS ONE. 2(6): e514.
1. Zuk, M., Rotenberry, J.T. & **Tinghitella, R.M.** 2006. Silent Night: Adaptive disappearance of a sexual signal in a parasitized population of field crickets. Biology Letters. 2: 521-524.

Book Chapters, Editorials, and Book Reviews

3. Lackey, A.R., Martin, M. & **Tinghitella, R.M.** 2018. Male competition and speciation: expanding our framework for speciation by sexual selection. Current Zoology. 64(1): 69-73.
2. Zuk, M. & **Tinghitella, R.M.** 2008. Rapid evolution and sexual signals. In: Sociobiology of Communication: an interdisciplinary perspective. Eds: d'Etterre & Hughes. Oxford University Press.
1. Zuk, M., Gershman, S.N., Lesser, K.J., Panhuis, T.M. & **Tinghitella, R.M.** 2005. Review of: Sexual Conflict: Monographs in Behavior and Ecology by G. Arnqvist & L. Rowe. The Quarterly Review of Biology. 81(2).

Data Packages

6. **Tinghitella, R.M.**, Bowen, A.E.**, Gurule-Small, G.A.* 2020. Data from: Anthropogenic noise reduces male reproductive investment in an acoustically signaling insect. Dryad Digital Repository. <https://doi.org/10.5061/dryad.zcrjdfn8d>.
5. **Tinghitella, R.M.**, Lackey, A.C.R., Durso, C. Koop, J.A.H., Boughman, J.W. 2020. Data from: The ecological stage changes benefits of mate choice and drives preference divergence. Dryad Digital Repository. <https://doi.org/10.5061/dryad.j3tx95x9q>.
4. **Tinghitella R.**, Broder E.D., Gurule-Small G.A.*, Hallagan C.*, Wilson, J.D.* 2018. Data from: Purring crickets: The evolution of a novel sexual signal. Dryad Digital Repository. <http://doi.org/10.5061/dryad.gh7v525>.
3. Gurule-Small G.A.*, **Tinghitella R.M.** 2018. Data from: Developmental experience with anthropogenic noise hinders adult mate location in an acoustically signaling invertebrate. Dryad Digital Repository. <https://doi.org/10.5061/dryad.53qb3>.

2. Minter R.*, Keagy J., **Tinghitella R.M.** 2017. Data from: The relationship between male sexual signals, cognitive performance, and mating success in stickleback fish. Dryad Digital Repository. <https://doi.org/10.5061/dryad.6h95v>.

1. **Tinghitella R.M.**, Weigel E.G.*, Head, M. & Boughman J.W. 2013. Data from: Flexible mate choice when mates are rare and time is short. Dryad Digital Repository. <http://dx.doi.org/10.5061/dryad.1p70j>.

Educational Modules

2. **Tinghitella, R.M.** 2015. How the cricket lost its song Part I. Published 'Data Nugget'. <http://datanuggets.org/2015/06/how-the-cricket-lost-its-song/>.

1. **Tinghitella, R.M.** 2015. How the cricket lost its song Part II. Published 'Data Nugget'. <http://datanuggets.org/2016/05/how-the-cricket-lost-its-song-part-2/>.

Extramural Funding Total at DU: \$2,666,045

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| 2020-23 | Morris Animal Foundation Grant PI: R.M. Tinghitella "Immune and reproductive costs of anthropogenic noise" | \$95,989 |
| 2020-24 | National Science Foundation, Rules of Life Co-PI: R.M. Tinghitella (PI: Erica Larson) "The evolution and maintenance of variable species boundaries." | \$1,500,799 |
| 2019-24 | National Science Foundation, IOS – Behavioral Processes PI: R.M. Tinghitella "CAREER: Linking the contemporary evolution of animal communication and science communication in our communities." Total \$ Awarded Includes: <i>Supplement: CAREER PI Meeting 2020 - \$1,982</i> <i>Supplement: REU 2020 - \$19,280</i> <i>Supplement: Creativity Supplement 2020 - \$152,053</i> | \$962,607 |
| 2019-21 | National Science Foundation, RCN – UBE Co-PI: R.M. Tinghitella (PI: S.M. Murphy, Co-PIs: A. Sher, E. Larson, P. Martin) "RCN-UBE Incubator: Enhancing undergraduate biology education through improved science communication" | \$74,975 |
| 2019-20 | Franklin Research Grant, American Philosophical Society PI: R.M. Tinghitella "Purring crickets of Hawaii: the evolution of a novel animal signal" | \$6,000 |
| 2018-19 | Jefferson County Open Space PI: R.M. Tinghitella "Sex in the noisy city: Effects of anthropogenic noise on fitness." | \$4,759 |
| 2016-17 | National Science Foundation, IOS – Behavioral Processes Co-PI: R.M. Tinghitella (PI: A. Lackey, Co-PI: M. Martin) "Travel support for diverse early career scientists to attend the 16th Congress of the International Society for Behavioral Ecology, University of Exeter, UK, 2016." | \$20,000 |
| 2015-16 | Society for the Study of Evolution Small Grant for Local and Regional Outreach PI: R.M. Tinghitella "DU SciTech: A STEM summer camp for girls from underrepresented backgrounds." | \$916 |
| 2010-12 | BEACON Center for the Study of Evolution in Action PI: R.M. Tinghitella (Co-PIs: J. Boughman, T. Getty, C. Klausmeier) "Sexual signaling evolutionary dynamics." | \$44,500 |

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| 2010-15 | National Science Foundation, Graduate STEM Fellows in K-12 Education Co-PI: R.M Tinghitella (PI: T. Getty and Co-PIs: K. Gross, G.P. Robertson, J. Lau, A. Anderson) "Using the STEM dimensions of bioenergy sustainability to bring leading- edge graduate research to K-12 learning settings." | \$2.6M |
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| Intramural Funding | Total at DU: \$233,433 |
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| 2020-2022 | Professional Research Opportunities for Faculty (PROF) Grant "Parallel divergence in male signal evolution." Co-PI: Erica Larson | \$20,000 |
| 2019-2020 | Center for Community Engagement and Service Learning (CCESL) Public Good Fund (Co-awarded with S. Murphy and J. Hoffman) "DU SciTech 2019: Building STEM identification and scientific self-efficacy with girls of color in Denver" | \$20,000 |
| 2019-2020 | Olin Faculty Development Award (Co-awarded with S. Murphy) "Bringing science communication education and outreach to DU." | \$8,220 |
| 2018-2020 | Faculty Internationalization Grant "Faculty strategic partnership with Lund University." | \$7,685 |
| 2018-2020 | Knoebel Institute for Healthy Aging Pilot Grant (Co-awarded with S. Murphy) "Effects of maternal and grand-maternal aging on offspring health and longevity." | \$40,000 |
| 2015-18 | University of Denver Research Post-Doctoral Fellows Award (Co-awarded with S. Murphy) | \$65,000 |
| 2017-18 | Center for Community Engagement and Service Learning (CCESL) Public Good Fund (Co-awarded with S. Murphy and J. Hoffman) "DUSciTech 2017: Pathways to STEM careers for girls of color and low-income girls in Denver." | \$15,000 |
| 2016-17 | CCESL Public Good Fund (Co-awarded S. Murphy and J. Hoffman) "DU SciTech: A STEM summer camp for girls from underrepresented backgrounds at the University of Denver." | \$18,884 |
| 2016-17 | CCESL STEM Education Mini-grant | \$750 |
| 2016 | CCESL Engaged Scholar Program - High Impact STEM Education | \$750 |
| 2014-16 | Professional Research Opportunities for Faculty (PROF) Grant "The genomics of rapid morphological and behavioral change in mating signals." (Co-awarded with T. Quinn) | \$29,154 |
| 2015-16 | One New Thing Grant, Office of Teaching and Learning | \$500 |
| 2015-16 | Olin Faculty Development Award (Co-awarded with S. Murphy) | \$3,390 |
| 2014,15 | 3X Marsico Visiting Scholar Grant | \$4100 |

Extramural Grants Awarded to My Mentees

Total at DU: \$401,447

* Graduate Student

** Undergraduate Student

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| 2021 | Cameron Venable | Ford Foundation Postdoctoral Fellowship | \$50,000 |
| 2020 | Aaron Wikle* | NSF Graduate Research Fellowship | \$138,000 |
| 2020 | David Zonana | NSF Postdoctoral Research Fellowship | \$208,000 |
| 2020 | Jay Gallagher* | Orthopterists' Society | \$1500 |
| 2020 | Brooke Washburn* | Northwest Scientific Association | \$1500 |
| 2020 | Brooke Washburn* | SSB Student Research Grant | \$3000 |
| 2020 | Jay Gallagher* | SICB Grant in Aid of Research | \$1000 |
| 2020 | Brooke Washburn* | SICB Grant in Aid of Research | \$1000 |
| 2019 | Brooke Washburn* | Sigma Xi Grants in Aid of Research | \$500 |
| 2019 | Brooke Washburn* | Lewontin Award, SSE | \$2500 |
| 2019 | Brooke Washburn* | Orthopterists' Society | \$1500 |
| 2019 | Jay Gallagher* | Crowdfunder through Kickstarter | \$2000 |
| 2018 | Jay Gallagher* | Sigma Xi Grants in Aid of Research | \$1000 |
| 2018 | Clara Jenck* | Sigma Xi Grants in Aid of Research | \$1000 |
| 2018 | Jacob Wilson* | BEACON Travel Award | \$500 |
| 2018 | Whitley Lehto* | Stickleback Meeting Travel Award | \$500 |
| 2018 | Whitley Lehto* | International Society for Behavioral Ecology Travel | \$500 |
| 2018 | Whitley Lehto* | Animal Behavior Society Travel Award | \$500 |
| 2018 | Jacob Wilson* | Orthopterists' Society | \$1250 |
| 2018 | E. Dale Broder (postdoc) | Orthopterists' Society | \$1470 |
| 2018 | Clara Jenck* | Crowdfunder through Kickstarter | \$2000 |
| 2018 | Clara Jenck* | Society for Northwest Vertebrate Biologists | \$1000 |
| 2017 | Gabrielle Gurule-Small* | Sigma Xi Grants in Aid of Research | \$1000 |
| 2017 | Gabrielle Gurule-Small* | Orthopterists' Society | \$1235 |
| 2017 | Claudia Hallagan* | Orthopterists' Society | \$1382 |
| 2017 | Whitley Lehto* | BEACON Travel Award | \$500 |
| 2017 | Gabrielle Gurule-Small* | BEACON Travel Award | \$500 |
| 2017 | E. Dale Broder (postdoc) | BEACON Travel Award | \$500 |
| 2017 | Whitley Lehto* | Animal Behavior Society Travel Award | \$500 |
| 2017 | Gabrielle Gurule-Small* | Society for the Study of Evolution Travel Award | \$500 |
| 2016 | Whitley Lehto* | National Science Foundation DDIG | \$19,535 |
| 2016 | Whitley Lehto* | Animal Behavior Society Student Grant | \$2000 |
| 2016 | Faith Lierheimer** | Turner Award, Animal Behavior Society | \$1075 |
| 2015 | Whitley Lehto* | Rosemary Grant Award, SSE | \$2500 |

Intramural Grants Awarded to My Mentees

Total at DU: \$189,999

* Graduate Student

** Undergraduate Student

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| 2019 | Aziz Syammach**, Summer Research Grant. | \$3500 |
| 2019 | Sophia Anner**, Summer Research Grant. | \$3500 |
| 2019 | Sophie Bloss**, Summer Research Grant. | \$3500 |

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| 2019 | Jay Gallagher*, Shubert Graduate Fellowship Fund. | \$500 |
| 2019 | Sophie Fitzgerald**, Pustmueller Grant. | \$3500 |
| 2018 | Brooke Washburn*, Graduate Studies Doctoral Fellowship. | \$1500 |
| 2018 | Jacob Wilson*, Shubert Graduate Fellowship Fund. | \$500 |
| 2018 | Clara Jenck*, Shubert Graduate Fellowship Fund. | \$500 |
| 2018 | Brian Oberlies**, Summer Research Grant. | \$3476 |
| 2018 | Josie Evans**, Summer Research Grant. | \$3476 |
| 2018 | Sophia Anner**, Summer Research Grant. | \$3443 |
| 2018 | Makenzie Day**, Pustmueller Grant. | \$3476 |
| 2018 | Sophie Fitzgerald**, Summer Research Grant. | \$1540 |
| 2018 | Gui Zheng**, Summer Research Initiative (CO-WY AMP Grant) | \$6000 |
| 2018 | Kallie Feldhaus**, Partners in Scholarship Grant. | \$950 |
| 2017 | Claudia Hallagan*, Shubert Graduate Fellowship Fund | \$500 |
| 2017 | Whitley Lehto*, Shubert Graduate Fellowship Fund | \$500 |
| 2017 | Gabrielle Gurule-Small*, Inclusive Engagement Fellowship | \$4500 |
| 2017 | Whitley Lehto*, Dissertation Fellowship | \$2500 |
| 2017 | Lukas Sloan**, Summer Research Grant. | \$3500 |
| 2017 | Anne Bowen**, Summer Research Grant. | \$3463 |
| 2017 | Kallie Feldhaus**, Summer Research Grant. | \$3500 |
| 2016 | E. Dale Broder (postdoc), IRISE Postdoctoral Fellowship. | \$95000 |
| 2016 | Clara Jenck**, Summer Research Grant. | \$3500 |
| 2015 | Angus Kitchell**, Partners in Scholarship Grant. | \$1462 |
| 2015 | Brian Ketterman**, Summer Research Grant. | \$3500 |
| 2015 | Clara Jenck**, Pustmueller Grant. | \$3500 |
| 2014 | Whitley Lehto*, Inclusive Engagement Fellowship | \$1000 |
| 2014 | Victoria Faith Lierheimer**, Summer Research Grant. | \$3269 |
| 2014 | Jolysa Gallegos**, Pustmueller Grant. | \$3500 |
| 2014 | Angus Kitchell**, Summer Research Grant. | \$3457 |
| 2014 | Kyle Robrock**, Summer Research Grant. | \$3500 |
| 2014 | Emrys Andromeda-Focht**, Pustmueller Grant. | \$3500 |
| 2013 | Victoria Faith Lierheimer**, Summer Research Grant. | \$3498 |
| 2013 | Joey Fisher**, Summer Research Grant. | \$3489 |

Invited Scholarly Presentations

External

- 2021 University of Bristol: Bristol, England.
- 2020 Society for the Study of Evolution, Annual Meeting: Cleveland, OH. Symposium Speaker. (Cancelled due to Covid-19)
- 2020 Colorado State University: Fort Collins, CO. (Cancelled due to Covid-19)
- 2020 Colorado State University, Pueblo: Pueblo, CO. (Cancelled due to Covid-19)
- 2020 St Olaf College: Northfield, MN.
- 2020 George Washington University: Washington, D.C.
- 2019 George Washington University: Washington, D.C.
- 2019 North Dakota State University: Fargo, ND.
- 2019 Illinois State University: Normal, IL.

- (2nd Annual Weigel Seminar - invited by Phi Sigma Biological Honor Society)
- 2019 University of Wyoming: Laramie, WY.
 - 2019 University of California - Santa Barbara: Santa Barbara, CA.
 - 2019 University of California - Berkeley: Berkeley, CA.
 - 2019 California State University - San Bernardino: San Bernardino, CA.
 - 2018 Lund University Christmas Meetings of the Evolutionary Ecology Group: Lund, Sweden.
 - 2018 University of Maryland Baltimore County: Baltimore, MD.
 - 2018 University of Colorado - Denver: Denver, CO.
 - 2018 University of Western Australia: Perth, Australia.
 - 2018 University of Colorado - Boulder: Boulder, CO.
 - 2017 University of Colorado - Colorado Springs: Colorado Springs, CO.
 - 2017 Entomological Society of America, Annual Meeting: Denver, CO. Symposium Speaker.
 - 2017 Society for the Study of Evolution, Annual Meeting: Portland, OR. Symposium Speaker.
 - 2017 National Park Service Night Skies and Natural Sounds Division: Fort Collins, CO.
 - 2016 International Society for Behavioral Ecology, Biennial Meeting: Exeter, UK. Symposium Speaker.
 - 2015 University of Northern Colorado: Greeley, CO.
 - 2015 University of Colorado - Denver: Denver, CO.
 - 2014 Colorado College: Colorado College, CO.
 - 2014 Murray State University, Watershed Studies Institute: Murray, KY.
 - 2014 Colorado State University: Fort Collins, CO.
 - 2012 College of William and Mary: Williamsburg, VA.
 - 2012 University of Denver: Denver, CO.
 - 2012 Mills College: Oakland, CA.
 - 2012 Butler University: Indianapolis, IN.
 - 2012 Nevada State College: Las Vegas, NV.
 - 2010 BEACON Center for the Study of Evolution in Action: East Lansing, MI.
 - 2010 University of Michigan: Ann Arbor, MI.
 - 2009 College of Wooster: Wooster, OH.
 - 2008 Michigan State University: East Lansing, MI.
 - 2008 Kellogg Biological Station: Hickory Corners, MI.

Internal - University of Denver

- 2021 Department of Biological Sciences Seminar.
- 2021 Global Environmental Change Institute Seminar Series.
- 2017 Founders Forum. Invited Banquet Speaker. *6 faculty members chosen to speak out of 702 full time faculty
- 2017 Honors Program. Invited Banquet Speaker.
- 2016 Office of Teaching and Learning. Invited Seminar Speaker. Faculty Showcase series.
- 2016 Center for Community Engagement and Service Learning. Invited Speaker.

Contributed Presentations

- 2020 Virtual Animal Behavior Society Meeting: Denver, CO.
- 2020 Virtual Animal Behavior Society Meeting: Denver, CO. (Co-presenter)
- 2020 Winter Animal Behavior Meeting: Steamboat, CO.
- 2019 Evolution, Annual Meeting: Providence, RI.
- 2019 Behaviour 2019: Chicago, IL.

- 2019 Winter Animal Behavior Meeting: Steamboat, CO.
- 2018 Ninth International Conference on Stickleback Behavior and Evolution: Kyoto, Japan.
- 2018 The Society for Integrative and Comparative Biology: San Francisco, CA. (Co-presenter)
- 2018 Winter Animal Behavior Meeting: Steamboat, CO.
- 2017 Winter Animal Behavior Meeting: Steamboat, CO.
- 2017 DU Diversity Summit on Inclusive Excellence: Denver, CO. Workshop. (Co-presenter)
- 2017 High Country Lepidopterists' Society, Annual Meeting: Boulder, CO. (Co-presenter)
- 2015 Methods in Ecological Genomics Workshop: MOTE Tropical Research Laboratory, Sarasota, FL.
- 2015 Eighth International Conference on Stickleback Behavior and Evolution: Stony Brook, NY.
- 2014 Guild of Rocky Mountain Ecologists and Evolutionary Biologists: Pingree Park, CO.
- 2014 International Society for Behavioral Ecology, Biennial Meeting: New York, NY.
- 2014 Animal Behavior Society, Annual Meeting: Boulder, CO.
- 2013 Society for the Study of Evolution, Annual Meeting: Snowbird, UT. (Co-presenter, poster)
- 2012 Seventh International Conference on Stickleback Behavior and Evolution: Seattle, WA.
- 2012 First Joint Conference on Evolutionary Biology: Ottawa, Canada.
- 2011 National Outreach Scholarship Conference: East Lansing, MI.
- 2011 Animal Behavior Society and International Ethological Conference: Bloomington, IN.
- 2009 Long-term Ecological Research All Scientists Meeting: Estes Park, CO. (Co-presenter)
- 2009 Long-term Ecological Research All Scientists Meeting: Hickory Corners, MI. (Co-presenter)
- 2009 Annual Graduate STEM Fellows in K-12 Education Meeting: Washington D.C.
- 2008 Animal Behavior Society, Annual Meeting: Snowbird, UT.
*****Winner – Allee Award for Best Paper and Presentation.**
- 2008 International Society for Behavioral Ecology, Biennial Meeting: Ithaca, NY.
- 2007 California Animal Behavior Symposium: Santa Barbara, CA.
- 2006 International Society for Behavioral Ecology, Biennial Meeting: Tours, France.
- 2006 Society for the Study of Evolution, Annual Meeting: Stony Brook, NY.

Contributed Presentations by Mentored Students/Postdocs

Total while at DU: 40

*Graduate student presenter **Undergraduate student presenter

Last name of student presenting is listed below. These presentations are **not** repeated above.

- 2021 Anner, S.** and Fitzgerald S.** Front Range Student Ecology Symposium: Fort Collins, CO.
- 2020 Smith, T.** Virtual Ecological Society of America Meeting: Denver, CO.
- 2020 Gallagher, J.* Virtual Animal Behavior Society Meeting: Denver, CO.
- 2020 Zonana, D.* Virtual Animal Behavior Society Meeting: Denver, CO.
- 2020 Gallagher, J.* Front Range Student Ecology Symposium: Fort Collins, CO.
*****Winner – 2nd place talk.**
- 2019 Wikle, A.** Behaviour 2019: Chicago, IL.
*****Winner – Runner up, Founder's Forum.**
- 2018 Hallagan, C.* Entomological Society of America: Vancouver, BC, Canada.
- 2018 Washburn, B.* Guild of Rocky Mountain Ecologists and Evolutionary Biologists: Nederland, CO.
- 2018 Wilson, J.* Guild of Rocky Mountain Ecologists and Evolutionary Biologists: Nederland, CO.
- 2018 Hallagan, C.* Guild of Rocky Mountain Ecologists and Evolutionary Biologists: Nederland, CO.
- 2018 Jenck, C.* Guild of Rocky Mountain Ecologists and Evolutionary Biologists: Nederland, CO.
- 2018 Lehto, W.* Ninth International Conference on Stickleback Behavior and Evolution: Kyoto, Japan.
*****Winner – Best student talk.**

- 2018 Jenck, C.* Ninth International Conference on Stickleback Behavior and Evolution: Kyoto, Japan.
- 2018 Gurule-Small, G.* International Society for Behavioral Ecology, Biennial Mtg: Minneapolis, MN.
- 2018 Lehto, W.* International Society for Behavioral Ecology, Biennial Meeting: Minneapolis, MN.
- 2018 Wilson, J.* International Society for Behavioral Ecology, Biennial Meeting: Minneapolis, MN.
- 2018 Lehto, W.* Animal Behavior Society, Annual Meeting: Milwaukee, WI.
- 2018 Gurule-Small, G.* Animal Behavior Society, Annual Meeting: Milwaukee, WI.
- 2018 Hallagan, C.* Front Range Student Ecology Symposium: Fort Collins, CO.
*****Winner – 2nd place talk.**
- 2018 Gurule-Small, G.* Front Range Student Ecology Symposium: Fort Collins, CO.
- 2018 Wilson, J.* Front Range Student Ecology Symposium: Fort Collins, CO.
*****Winner – 1st place graduate poster.**
- 2018 Feldhaus, K.** Front Range Student Ecology Symposium: Fort Collins, CO.
*****Winner – 1st place undergraduate poster.**
- 2018 Fetrow, K.** Front Range Student Ecology Symposium: Fort Collins, CO.
*****Winner – 2nd place undergraduate poster.**
- 2018 Lehto, W.* Gordon Research Conference on Predator-Prey Interactions: Ventura, CA.
- 2017 Gurule-Small, G.* Entomological Society of America, Annual Meeting: Denver, CO.
- 2017 Hallagan, C.* Entomological Society of America, Annual Meeting: Denver, CO.
*****Winner – 2nd place poster.**
- 2017 Fetrow, K.** Entomological Society of America, Annual Meeting: Denver, CO.
- 2017 Broder, E.D. Entomological Society of America, Annual Meeting: Denver, CO.
- 2017 Gurule-Small, G.* Guild of Rocky Mountain Ecologists and Evolutionary Biologists: Nederland, CO.
- 2017 Jenck, C.** Guild of Rocky Mountain Ecologists and Evolutionary Biologists: Nederland, CO.
- 2017 Lehto, W.* Society for the Study of Evolution, Annual Meeting: Portland, OR.
- 2017 Gurule-Small, G.* Society for the Study of Evolution, Annual Meeting: Portland, OR.
- 2017 Lehto, W.* Front Range Student Ecology Symposium: Fort Collins, CO.
*****Winner – 2nd place poster.**
- 2017 Gurule-Small, G.* Front Range Student Ecology Symposium: Fort Collins, CO.
- 2017 Lierheimer, V.F.** Front Range Student Ecology Symposium: Fort Collins, CO.
- 2016 Lehto, W.* Guild of Rocky Mountain Ecologists and Evolutionary Biologists: Crested Butte, CO.
- 2016 Lierheimer, V.F.** Animal Behavior Society, Annual Meeting: Columbia, MO.
- 2015 Lehto, W.* Guild of Rocky Mountain Ecologists and Evolutionary Biologists: Nederland, CO.
- 2015 Minter, R.* Front Range Student Ecology Symposium: Fort Collins, CO.
- 2014 Lehto, W.* International Society for Behavioral Ecology, Biennial Meeting: New York, NY.
- 2014 Hollmann, R.** Animal Behavior Society, Annual Meeting: Boulder, CO.

Student Advising and Mentorship

Total at DU: 9 grad students, 65 undergraduates

Graduate Students, Thesis Advisor

- 2020-25 Gabrielle Welsh, Ph.D. student
- 2020-22 Aaron Wikle, M.S. student
- 2018-23 James Gallagher, Ph.D. student
- 2017-19 Jacob Wilson, M.S. (Co-advised with S. Murphy).
- 2017-19 Clara Jenck, M.S.
- 2013-19 Whitley Lehto, Ph.D.

2016-19 Claudia Hallagan, M.S. (Co-advised with S. Murphy).

2015-18 G. Gurule-Small, M.S.

2013-15 Ross Minter, M.S.

Undergraduate Students: Research experience in my lab at DU (including Thesis students)

- | | | |
|-------------------------------|--------------------------|------------------------|
| 1. Dalton Larrinaga | 23. Jolysa Gallegos*^§ | 45. Kirsten Fetrow*^@ |
| 2. Grace Fierle | 24. Anne Bowen*^~§# | 46. Madison Sleyster |
| 3. Emma Phillips | 25. Ambree Campbell | 47. Erin Sadler |
| 4. Kyle Robrock*^ | 26. Madison Heller | 48. Julie Campbell |
| 5. Aimee Molloy | 27. Caroline Smith | 49. Miranda Fincher |
| 6. Joey Fisher*^ | 28. Elizabeth Pepper | 50. Corwyn Bradeen |
| 7. Emrys Andromeda-Focht* | 29. Gui Zheng* | 51. Alicia Lauer |
| 8. Annie Halseth | 30. Chloe Pepke | 52. Sophie Bloss*^ |
| 9. Rebecca Hollmann@ | 31. Adam Begeman | 53. Aziz Syammach*^ |
| 10. Ian Moffit | 32. Lauren Tyree | 54. Brianna Herner |
| 11. Sophie Fitzgerald*^§~ | 33. Jared Smith | 55. Charlie Shikany |
| 12. Josie Evans*^ | 34. Miranda Fleishhacker | 56. Harry Zakarian |
| 13. Josie Boynton | 35. Morgan Ziegler | 57. Madeline Almen |
| 14. Brian Oberlies*^§ | 36. Bailey Rojewsky | 58. Sophie Kanellitsas |
| 15. Makenzie Day*^§ | 37. Kallie Feldhaus*^@§ | 59. Katherine Davis |
| 16. Mikki Mesfin | 38. Sophia Anner*^§# | 60. Gavin Gershman |
| 17. Clara Jenck*^@# | 39. Kathryn Ziegner | 61. Finn Gamble |
| 18. Aaron Sexton# | 40. Austin Adams | 62. Emily Vandenberg |
| 19. Lukas Sloan*^§# | 41. Maddie Sweet | 63. Megan Holiday |
| 20. Brian Ketterman*^§# | 42. Abby Horton§ | 64. Tim Greenwood |
| 21. V. Faith Lierheimer*^#@~§ | 43. Laura Braun | 65. Delaney Sanford |
| 22. Angus Kitchell*^§ | 44. Adam Begeman | |

* Grant received

Co-authored publication

^ Presentation at internal meeting

@Presentation at national or international meeting

§ Distinction or Honors student

~ Thesis or research award

Undergraduate Students, Honors/Distinction Thesis Advisor (included above)

- | | | | |
|------|---|------|--------------------------------|
| 2020 | Sophie Fitzgerald | 2018 | Lukas Sloan |
| | ***Winner – Best Thesis | 2018 | Kallie Feldhaus |
| 2020 | Josie Evans | 2016 | Brian Ketterman |
| 2019 | Brian Oberlies | 2016 | Victoria Faith Lierheimer |
| 2019 | Sophia Anner | | ***Winner - Best Thesis |
| 2019 | Anne Bowen | 2016 | Angus Kitchell |
| | *** Winner – Most Impactful Thesis | 2015 | Jolysa Gallegos |
| | *** Winner – Best Thesis | | |

Teaching

Teaching load at DU = 12 quarter credits/year

University of Denver:

- 2020- BIOL 3110, Science Communication
 2015- BIOL 3410, Animal Behavior
 2014- BIOL 4220, Graduate Seminar: Ecology and Evolution
 2013- BIOL 2010, General Ecology
 2013,15 BIOL 4330, Graduate Foundations in Literature: Evolution

Other institutions:

- 2005 Bio 034, Human Heredity and Evolution (University of California-Riverside)
 2010-12 Zol 895, Professional Development for Graduate Students (Michigan State University)

Service as Reviewer/Editor for Journals, Textbooks, Granting Agencies

Textbook Review

- 2016 McGraw-Hill, Ecology: Concepts and Applications 7th Edition, Molles
 2016 Oxford University Press, Ecology: Evolution, Application, Integration First Edition, Krohne

Journal Editorial Board

- 2021- Associate Editor for Evolution.
 2019- Editorial Board for Behavioral Ecology.
 2018- Associate Editor for Environmental Entomology.
 2017 Guest Editor for a Special Column. Current Zoology.

Review of Manuscripts

- | | |
|---|---|
| American Naturalist | Hydrobiologia |
| Animal Behaviour | Integrative and Comparative Biology |
| Animal Ecology | Journal of Animal Ecology |
| Behavioral Ecology | Journal of Evolutionary Biology |
| Behavioral Ecology and Sociobiology | Journal of Ethology |
| Bioacoustics | Journal of Fish Biology |
| Biological Journal of the Linnean Society | Journal of Insect Behavior |
| Biology Letters | Journal of Orthopteran Research |
| BMC Evolutionary Biology | Oikos |
| Canadian Journal of Zoology | Peer J |
| Current Zoology | PLoS Biology |
| Ecology | PLoS One |
| Ecological Entomology | Proceedings of the Royal Society B: Biological Sciences |
| Environmental Entomology | Proceedings of the National Academy of Sciences |
| Ethology | Quarterly Review of Biology |
| Evolution | Royal Society Open Science |
| Evolution and Ecology | Urban Ecosystems |
| Evolutionary Ecology Research | |
| Frontiers in Ecology and Evolution | |
| Functional Ecology | |

Review of Proposals

- 2021 External Referee, Deutsche Forschungsgemeinschaft (German Research Foundation)
- 2020 Panelist, Shubert Graduate Fellowship Fund, University of Denver
- 2019 Ad hoc reviewer, NSF Integrative Organismal Systems
- 2019 Panelist for University of Denver's Summer Research Grants
- 2018 Panelist for University of Denver's Professional Research Opportunities for Faculty grants
- 2018 Organizer and panelist, Shubert Graduate Fellowship Fund, University of Denver
- 2017 Ad hoc reviewer, NSF Division of Environmental Biology
- 2017 Panelist, Shubert Graduate Fellowship Fund, University of Denver
- 2016 Panelist, NSF Integrative Organismal Systems
- 2015 External Referee, Biotechnology and Biological Sciences Research Council, UK
- 2015 Panelist, Animal Behavior Society Grants
- 2015 External Referee, Natural Environmental Research Council, UK
- 2015 Panelist, Shubert Graduate Fellowship Fund, University of Denver
- 2014 External Referee, University of Wisconsin Faculty Research Grants
- 2014 External Referee, Natural Environmental Research Council, UK
- 2013 Panelist, Animal Behavior Society Grants

Service and Community Engagement

Community Education and Engagement

- 2021 Podcast guest "Fresh Scoop" Episode Twenty-Seven. "How crickets can tell us more about urban noise pollution"
- 2019- Co-developer/teacher of an Inter-institutional CURE executed at BYU-Hawaii (a minority-serving undergraduate institution in the heart of my most important field site)
- 2019 Colorado Café Scientifique Speaker "Grand gestures and love notes"
- 2018 MileHigh TedX Speaker and Adventure Leader "Waiting, dating, and mating"
- 2018 Mentored native Hawaiian high school students while conducting field research on Molokai
- 2016- Co-founder and coordinator for DU SciTech. This is a week-long STEM Summer Camp hosted at DU for middle school girls who are from groups historically underrepresented in the sciences and financially disadvantaged. I co-coordinate, fund, and run the entire camp with two other DU faculty members. The camp is free for all girls attending.
- 2015 Virtual lab tour for >180 middle school students from Highlands Ranch Schools
- 2015,17 Presenter at Regis University's SciTech Summer Camp
- 2014,13 "Rapid Evolution Roadshow" presented to >180 7th grade students at Mountain Ridge Middle School. Quarterly visits to the school during the school year.
- 2013 DU Day of Action - Munroe Elementary School Visit to the University of Denver, workshop leader. Co-led an activity for 100 K-5 students about insect morphology.
- 2008-12 Coordinator, K-12 Educator's Summer Science Institute (1X per year) and School-year teacher professional development workshops (4X per year) at Kellogg Biological Station, Hickory Corners, MI.
- 2008-12 Member, Education and Outreach Committee, Kellogg Biological Station
- 2011-13 Guest blogger for BEACON Center for the Study of Evolution in Action
- 2009 Member, SW Michigan Coalition on Public Understanding of Science Committee
- 2009 Facilitator and Judge, Michigan Science Olympiad Tournament, East Lansing, MI

Departmental, Divisional and University Service

- 2021 Faculty Search Committee, Teaching Professor
- 2021- Equity and Racial Justice Committee, College of Natural Sciences and Mathematics
- 2020- Faculty Mentoring and Onboarding Committee, appointed by Vice Provost for Faculty Affairs
- 2019- Chair, Honors Committee, Department of Biological Sciences
- 2019 Chair, Faculty Search Committee, Evolutionary Biologist
- 2018 Invited Speaker at Undergraduate Research and Scholarship Open House
- 2018 Invited Speaker at DU Nature Challenge BioBlitz
- 2018 Colorado-Wyoming Alliance for Minority Participation (CO-WY AMP) Faculty Mentor
- 2017- University Honors Council (elected member)
- 2016- Rocky Mountain Cooperative Ecosystem Studies Unit - University Representative
- 2016 Faculty Search Committee Member, Evolutionary Biologist
- 2016 IRISE Postdoc Search Committee Member, Equity in STEAM
- 2016-18 Faculty Mentor for the Pre-Veterinary Club
- 2015- Pre-Veterinary Advisor, Department of Biological Sciences
- 2015 Faculty Search Committee Member, Plant Ecologist
- 2015 NSMentoring Program Faculty Mentor
- 2014-19 Graduate Committee, Department of Biological Sciences
- 2014-16 Undergraduate Honors Committee, Department of Biological Sciences
- 2013-14 Seminar Coordinator, Department of Biological Sciences

Service to Professional Societies

- 2020 Judge, Allee Award, Animal Behavior Society
- 2019 Symposium Organizer, Behaviour 2019, Annual Meeting
- 2018 Scientific Advisory Committee for the International Society for Behavioral Ecology Meeting
- 2016 Symposium Organizer, International Society for Behavioral Ecology, Biennial Meeting
- 2017 Judge, Hamilton Award Talks, Society for the Study of Evolution Annual Meeting
- 2014 Scientific Advisory Committee for the International Society for Behavioral Ecology Meeting
- 2014 Session Chair, International Society for Behavioral Ecology Annual Meeting

Membership in Professional Societies

- 2017- Entomological Society of America
- 2015- American Association of University Women
- 2014- Sigma Xi
- 2008- Animal Behavior Society
- 2006- International Society for Behavioral Ecology
- 2004- Society for the Study of Evolution
- 2003- Orthopterists' Society

Selected Editorial Features of My Research

Inverse: One overlooked human action could be destroying entire ecosystems. A ripple effect is transmitting through nature. By: Tara Yarlagadda

<https://www.inverse.com/science/insect-sound-pollution-cricket-research>

Newsweek: Hawaii crickets have evolved to purr like cats. By: Hannah Osborne.

<https://www.newsweek.com/hawaii-crickets-have-evolved-purr-cats-1194642>

New Scientist: Crickets rapidly evolve new mating call to avoid their parasites. By: Colin Barras.

<https://www.newscientist.com/article/2183848-crickets-rapidly-evolve-new-mating-call-to-evade-their-parasites>

USA Today Amaze Lab: Hawaii crickets started purring like cats to attract mates.

<https://www.usatoday.com/videos/tech/science/2018/10/31/hawaii-crickets-started-purring-like-cats-attract-mates/38342067/>

Hawaii News Now: Evolution at work: Crickets on Molokai are now...purring.

<http://www.hawaiinewsnow.com/2018/11/01/evolution-work-crickets-molokai-are-now-purring/>

Lateral Magazine: The Fastest Show on Earth. By: Emily Gregg. <http://www.lateralmag.com/issue-2-underground/the-fastest-show-on-earth>

DatingAdvice.com Researcher Profile: Animal Mate Choice is More Sophisticated Than We Think. By:

Hayley Matthews. <http://www.datingadvice.com/studies/drtamc>

Science Editor's Choice: The advantage of keeping quiet. By: Andrew Sugden.

<http://science.sciencemag.org/content/314/5797/224.1>

National Geographic News: Hawaii crickets evolved "silent" wings to evade parasites. By: Scott Norris.

<http://news.nationalgeographic.com/news/2006/10/061003-silent-crickets.html>

Understanding Evolution: Quick evolution leads to quiet crickets.

http://evolution.berkeley.edu/evolibrary/news/061201_quietcrickets

Science News: Crickets on Mute: Hush falls as killer fly stalks singers. Volume 170 (13).

<http://www.sciencenews.org/articles/20060923/fob5.asp>