

ROBIN M. TINGHITELLA

Curriculum Vitae

I. Personal Data

Name: Robin Marie Tinghitella (legal name: Robin Marie Hibbs)
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Citizenship: U.S.A.

II. Degrees Earned

Ph.D. University of California - Riverside, 2008
Evolution, Ecology, & Organismal Biology
Advisor: Marlene Zuk
Committee: Cheryl Hayashi, Derek Roff
Thesis Title: "Contributions to the rapid evolutionary loss of a sexual signal: Islands, parasites, and mating behavior in the Polynesian field cricket, *Teleogryllus oceanicus*."

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

III. Professional Positions

2013 - *Assistant Professor*, Department of Biological Sciences, University of Denver
2010-12 *Postdoctoral Researcher* in the laboratories of Drs. Thomas Getty and Janette Boughman, 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

IV. Peer-Reviewed Publications

**denotes undergraduate student co-author, *denotes graduate student co-author

¹ denotes work attributed to DU

² denotes invited review or manuscript

16. 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.^{1,2}
15. 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. 88:508-522.¹
14. **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. 15:200.¹
13. **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: 609-616.¹
12. **Tinghitella, R.M.** 2014. Male and female crickets modulate courtship behaviour depending on females' experience with mate availability. Animal Behaviour. 91: 9-15.¹
11. **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): 2820-2831.¹
10. **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.
9. Tibbetts, E.A., Izzo, A.*, **Tinghitella, R.M.** 2011. Juvenile hormone titer and advertised quality are associated with timing of early spring activity in *Polistes dominulus* foundresses. Insectes Sociaux. 58: 473-478.
8. 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.
7. 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.

6. **Tinghitella, R.M.** & Zuk, M. 2009. Asymmetric mating preferences accommodated the rapid evolutionary loss of a sexual signal. Evolution. 63: 2087-2098.

5. **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.

4. Zuk, M. & **Tinghitella, R.M.** 2008. Rapid evolution and sexual signals. In: Sociobiology of Communication: an interdisciplinary perspective. Eds: P d’Etorre & D.P. Hughes. Oxford University Press.

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.

In Review or Revision

4. Minter, R.*, Keagy, J. & **Tinghitella, R.M.** Cognition is displayed in attractive sexual signals and innovative males have fitness advantages. In Review at Behavioral Ecology.¹

3. Lierheimer, V.F.** & **Tinghitella, R.M.** Quantity and quality of available mates alters mate choice behavior and female investment in the Pacific field cricket (*Teleogryllus oceanicus*). In Review at Behavioral Ecology and Sociology.¹

2. Vidal, M.C.*, Grenis, K.*, Lehto, W.R.*, **Tinghitella, R.M.** & Murphy, S.M. Butterfly Hunt: the role of density dependence in Batesian and Mullerian mimicry. In review at the National Center for Case Study Teaching in Science.¹

1. Grenis, K.*, Lehto, W.R.*, Murphy, S.M., Vidal, M.C.* & **Tinghitella, R.M.** Animals on treadmills: the importance of basic research. In Review at the National Center for Case Study Teaching in Science.¹

In Preparation

10. **Tinghitella, R.M.** et al. Male competition and speciation: a comprehensive review of patterns and processes. Invited by the editor of Behavioral Ecology.^{1,2}

9. Minter, R.* & **Tinghitella, R.M.** The role of female cognition in male and female mate

choice: cognitive ability is not always preferred in mate choice. In preparation for Ethology.¹

8. Lehto, W.R.* , Ketterman, B.** , Sexton, A.** , Sloan, L.** & **Tinghitella, R.M.** Correlated evolution of body color and shape in the threespine stickleback. In preparation for Ecology and Evolution.¹

7. **Tinghitella, R.M.** & Boughman, J. Does the identity or magnitude of indirect benefits provided by attractive males depend on ecological conditions? In preparation for Proceedings of the National Academy of Sciences.¹

6. Kitchell, A.** & **Tinghitella, R.M.** Geographic variation in sperm competition in the Pacific field cricket, *Teleogryllus oceanicus*. In preparation for the Journal of Insect Behavior.¹

5. Lackey, A.R., Martin, M. & **Tinghitella, R.M.** Male competition across the speciation continuum. Invited by the editors of Current Zoology.^{1,2}

4. **Tinghitella, R.M.** & Lierheimer, V.F.* Geographic variation in male competition, but not female choice, drives divergence between color morphs. In preparation for Current Biology.¹

3. Murphy, S.M., Grenis, K.* , Lehto, W.R., Vidal, M.C. & **Tinghitella, R.M.** Disease ecology: can plant disease and global change affect human health? In preparation for the National Center for Case Study Teaching in Science.¹

2. Lehto, W.R.* , Grenis, K.* , Murphy, S.M., Vidal, M.C.* & **Tinghitella, R.M.** El Nino is coming: finch reproduction and an introduction to life tables. In preparation for the National Center for Case Study Teaching in Science.¹

1. **Tinghitella, R.T.**, Grenis, K.* , Lehto, W.R.* , Vidal, M.C. & Murphy, S.M. Forest wheel of fortune: succession in forest communities. In preparation for the National Center for Case Study Teaching in Science.¹

V. Other Publications

Published Curricula and 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

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/>.¹

Book Reviews

1. Zuk, M., Gershman, S.N., Lesser, K.J., Panhuis, T.M., Schmidt, T., & **Tinghitella, R.M.** 2006. Book Review: Sexual Conflict: Monographs in Behavior and Ecology (by Arnqvist, R. & Rowe, L.) Quarterly Review of Biology. 81: 204-205.

Published Data Reports and Packages

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>.¹

VI. Awards and other Recognition

2014 Nominated by the Biology Department for the **Outstanding Junior Faculty Award**, Division of Natural Sciences and Mathematics, University of Denver.

2008 **Warder Clyde Allee Award** for Best Paper and Presentation, Animal Behavior Society. This award is given each year to a single individual who earned a Ph.D. in Animal Behavior in the previous year for the best paper and presentation given at the national animal behavior meetings.

2006 **Excellence in Teaching Award**, Department of Evolution, Ecology, and Organismal Biology, University of California - Riverside. This award is given each year to a single graduate student.

2006 **Best Poster**, Sex Matters Conference, University of California - Riverside. This award is given each year to the author of the most outstanding poster or presentation given by a graduate student.

2004 **National Science Foundation Graduate Research Fellowship Program**, *Honorable Mention*.

2003 **Evolution and Ecology Graduate Research Umbrella Fellowship**, University of California – Riverside.

2003 **PEARL Fellowship**, University of California. This fellowship provided an all expenses paid summer of research at the Gump Research Station in Moorea, French Polynesia.

2002 **Fletcher Jones Fellowship**, University of California.

VII. Memberships in Professional Societies

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

VIII. Invited Scholarly Presentations

¹ denotes work attributed to DU

- 2016 **International Society for Behavioral Ecology**, Biennial Meeting: Exeter, UK. *Invited Symposium Speaker*. Emerging patterns in the contribution of male competition to speciation. ¹
- 2016 **University of Denver**, Office of Teaching and Learning: Denver, CO. *Invited Seminar Speaker* (Faculty Showcase series). Student-centered active learning methodologies in a large lecture course. ¹
- 2015 **University of Northern Colorado**: Greeley, CO. *Invited Seminar Speaker*. Why are sexual signaling systems so variable and what does it mean for reproductive isolation? ¹
- 2015 **Methods in Ecological Genomics Workshop**: MOTE Tropical Research Laboratory, Sarasota, FL. *Invited Speaker*. Using Next Generation Sequencing to look for evidence of repeated evolutionary trait loss. ¹
- 2015 **University of Colorado - Denver**: Denver, CO. *Invited Seminar Speaker*. The roles of behavior and ecology in the evolution of sexual signaling systems. ¹
- 2014 **Colorado College**: Colorado College, CO. *Invited Seminar Speaker*. The roles of behavior and ecology in the evolution of sexual signaling systems. ¹
- 2014 **Murray State University, Watershed Studies Institute**: Murray, KY. *Invited Seminar Speaker*. Understanding the roles of behavior and ecology in rapid evolutionary change. ¹
- 2014 **Colorado State University**: Fort Collins, CO. *Invited Seminar Speaker*. Understanding the roles of behavior and ecology in rapid evolutionary change. ¹
- 2012 **College of William and Mary**: Williamsburg, VA. *Invited Seminar Speaker*. How the cricket lost its song: Understanding the role of behavior in rapid evolutionary change.
- 2012 **University of Denver**: Denver, CO. *Invited Seminar Speaker*. How the cricket lost its song: Understanding the role of behavior in rapid evolutionary change.
- 2012 **Mills College**: Oakland, CA. *Invited Seminar Speaker*. How the cricket lost its song: Understanding the role of behavior in rapid evolutionary change.
- 2012 **Butler University**: Indianapolis, IN. *Invited Seminar Speaker*. How the cricket lost its song: Understanding the role of behavior in rapid evolutionary change.
- 2012 **Nevada State College**: Las Vegas, NV. *Invited Seminar Speaker*. Sexual selection and mate choice.

- 2010 **BEACON Center for the Study of Evolution in Action:** East Lansing, MI. *Invited Speaker.* Observing rapid evolution in the field.
- 2010 **University of Michigan:** Ann Arbor, MI. *Invited Seminar Speaker.* How the cricket lost its song: Causes and consequences of the loss of a sexual signal.
- 2009 **College of Wooster:** Wooster, OH. The strong silent type: Mate location and courtship interactions following the loss of a sexual signal.
- 2008 **Michigan State University:** East Lansing, MI. Contributions to the rapid evolutionary loss of a sexual signal: Islands, parasites, and mating behavior.
- 2008 **Kellogg Biological Station:** Hickory Corners, MI. I saw it with my own eyes: Lessons learned in rapid evolution.
- 2008 **Kellogg Biological Station:** Hickory Corners, MI. Contributions to the rapid evolutionary loss of a sexual signal: Islands, parasites, and mating behavior.

IX. Contributed Presentations

***denotes undergraduate student co-author, *denotes graduate student co-author*

¹ denotes work attributed to DU

- 2016 Lierheimer, V.F.** & **Tinghitella, R.M.** *Animal Behavior Society, Annual Meeting: Colombia, MO.* "Quantity and quality of available mates alters mate choice behavior and female investment in the Pacific field cricket (*Teleogryllus oceanicus*)."¹ (poster)
- 2015 W. Lehto* & **Tinghitella, R.M.** *Guild of Rocky Mountain Ecologists and Evolutionary Biologists: Nederland, CO.* "Parental effects on offspring mate choice in threespine sticklebacks (*Gasterosteus aculeatus*)."¹
- 2015 **Tinghitella, R.M.**, C. Stehle**, J. Boughman. *Eighth International Conference on Stickleback Behavior and Evolution: Stony Brook, NY.* "Females sample more males at high nesting densities, but ultimately obtain less attractive mates."¹
- 2015 R. Minter* & **Tinghitella, R.M.** *Front Range Student Ecology Symposium: Fort Collins, CO.* "Are mating decisions and success mediated through cognitive ability?" (poster)¹
- 2014 **Tinghitella, R.M.**, W. Lehto* & R. Minter*. *Guild of Rocky Mountain Ecologists and Evolutionary Biologists: Pingree Park, CO.* "Roles of behavior and ecology in the evolution of sexual signaling systems."¹

- 2014 **Tinghitella, R.M.** *International Society for Behavioral Ecology, Biennial Meeting: New York, NY.* “Male and female crickets modulate courtship behavior depending on females’ experience with mate availability.”¹
- 2014 W. Lehto*, R. Minter* & **Tinghitella, R.M.** *International Society for Behavioral Ecology, Biennial Meeting: New York, NY.* “Male competition, but neither female nor male mating preferences changed with the loss of a sexual signal.” (poster)¹
- 2014 **Tinghitella, R.M.**, E. Weigel*, M. Head & J. Boughman. *Animal Behavior Society, Annual Meeting: Boulder, CO.* “Flexible mate choice when mates are rare and time is short.”¹
- 2014 R. Hollmann** & **Tinghitella, R.M.** *Animal Behavior Society, Annual Meeting: Boulder, CO.* “Male crickets modify courtship depending on females’ previous experience with males, but not CHC exposure.” (poster)¹
- 2013 S. Balenger, N.W. Bailey, **Tinghitella, R.M.**, J. Rotenberry & M. Zuk. *Society for the Study of Evolution, Annual Meeting: Snowbird, UT.* “Genetic and calling song variation in the Pacific field cricket, *Teleogryllus oceanicus*, across a wide geographic range.” (poster)¹
- 2013 Weigel, E.*, **Tinghitella, R.M.** & Boughman, J. *Midwest Ecology and Evolution Conference: South Bend, IN.* “Play the odds: Mate availability, not timing, impacts female reproductive investment.”
- 2012 **Tinghitella, R.M.**, Weigel, E.* & Boughman, J. *Seventh International Conference on Stickleback Behavior and Evolution: Seattle, WA.* “Flexible mate choice in response to intrinsic and social cues: Mate availability and time of season.”
- 2012 **Tinghitella, R.M.**, Weigel, E.*, & Boughman, J. *First Joint Conference on Evolutionary Biology: Ottawa, Canada.* “Flexible mate choice in response to intrinsic and social cues: Mate availability and time of season.”
- 2012 Weigel, E.*, **Tinghitella, R.M.** & Boughman, J. *First Joint Conference on Evolutionary Biology: Ottawa, Canada.* “Mate availability influences timing and number of clutches in sticklebacks.” (poster)
- 2012 Chung, M.S.**, Lopresto, S.K.**, McLaughlin, E.** & **Tinghitella, R.M.** *Research and Arts Forum: East Lansing, MI.* “Are females less choosy when mates are rare?”
- 2011 **Tinghitella, R.M.** & Sametz, L. *National Outreach Scholarship Conference: East Lansing, MI.* “Symposium: Science and Technology Education. Translating complex science for many audiences.”

- 2011 **Tinghitella, R.M.**, Weigel, E.* & Boughman, J. Joint Meeting of the Animal Behavior Society and the International Ethological Conference: Bloomington, IN. "Mate availability and hybridization in the threespine stickleback."
- 2011 Weigel, E.* & **Tinghitella, R.M.** *BEACON Center for the Study of Evolution in Action, All Hands Meeting: East Lansing, MI.* "Mate availability and hybridization in the threespine stickleback." (poster)
- 2009 **Tinghitella, R.M.** & Doll, J. *Long-term Ecological Research All Scientists Meeting: Estes Park, CO.* "Who needs to know what – and when and how? Outreach and education beyond courses for credit."
- 2009 **Tinghitella, R.M.**, Wilke, B., Schramm, J. & Anderson, C.W. *Kellogg Biological Station's Long-term Ecological Research All Scientists Meeting: Hickory Corners, MI.* "Pathways to ecological literacy: A math science partnership at W.K. Kellogg Biological Station."
- 2009 **Tinghitella, R.M.**, Getty, T., Syswerda, S., & Erwin, S. *Annual Graduate STEM Fellows in K-12 Education Meeting: Washington D.C.* "Bringing GK-12 Fellows' research to K-12 classrooms through school-year workshops and summer science institutes."
- 2008 **Tinghitella, R.M.** *Animal Behavior Society, Annual Meeting: Snowbird, UT.* The strong silent type: courtship interactions following the loss of a sexual signal." ****Allee Award Recipient for Best Student Paper and Presentation.*
- 2008 **Tinghitella, R.M.** & Zuk, M. *International Society for Behavioral Ecology, Biennial Meeting: Ithaca, NY.* "The strong silent type: courtship interactions following the loss of a sexual signal." **Allee Award Recipient for Best Student Paper and Presentation.*
- 2007 **Tinghitella, R.M.** *California Animal Behavior Symposium: Santa Barbara, CA.* "X marks the spot: genetic control of the flatwing mutation that renders male field crickets mute."
- 2006 **Tinghitella, R.M.**, Rotenberry, J.T. & Zuk, M. *International Society for Behavioral Ecology, Biennial Meeting: Tours, France.* "Behavior facilitates rapid loss of sexual signal in a parasitized population of field crickets."
- 2006 **Tinghitella, R.M.**, Rotenberry, J.T. & Zuk, M. *Society for the Study of Evolution, Annual Meeting: Stony Brook, NY.* "Behavior facilitates rapid loss of sexual signal in a parasitized population of field crickets." (poster)

X. Service as Reviewer for Journals, Granting Agencies, Professional Societies

Journal Editorial Board

2016- Current Zoology, Guest Editor for Special Column (6-8 papers) on “Male competition across the speciation continuum”.

Review of Manuscripts

Animal Behaviour

Animal Ecology

Behavioral Ecology

Behavioral Ecology and Sociobiology

Biological Journal of the Linnean Society

BMC Evolutionary Biology

Canadian Journal of Zoology

Ecological Entomology

Ethology

Evolution

Evolutionary Ecology Research

Functional Ecology

Hydrobiologia

Journal of Evolutionary Biology

Journal of Ethology

Journal of Fish Biology

Journal of Insect Behavior

Peer J

Proceedings of the Royal Society B: Biological Sciences

Textbook Review

2016 Oxford University Press, *Ecology: Evolution, Application, Integration* First Edition, Krohne

Review of Proposals (~44 proposals, # reviewed in parentheses)

2016 Panelist, NSF Division of Environmental Biology (planned for November 2016)

2016 Panelist, NSF Integrative Organismal Systems, Integrative Ecological Physiology (24)

2015 External Referee, Biotechnology and Biological Sciences Research Council, UK (1)

2015 Panelist, Animal Behavior Society Grants (8)

2015 External Referee, Natural Environmental Research Council, UK (1)

2015 Panelist, Shubert Graduate Fellowship Fund, University of Denver

2014 External Referee, University of Wisconsin Faculty Research Grants (1)

2014 External Referee, Natural Environmental Research Council, UK (1)

2013 Panelist, Animal Behavior Society Grants (8)

XI. Extramural Funding

Current

2016-18	National Science Foundation, IOS - Behavioral Processes Doctoral Dissertation Improvement Grant PI: R.M. Tinghitella (Co-PI: W.R. Lehto) “Stress Induced Parental Effects on Offspring Mate Choice: Ultimate drivers and proximate mechanisms using the threespine stickleback (<i>Gasterosteus aculeatus</i>).”	\$19,535
2016-17	National Science Foundation, IOS – Behavioral Processes Conference Grant 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 “DUSciTech: A STEM summer camp for girls from underrepresented backgrounds at the University of Denver.”	\$916

Completed

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
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, G.P. Robertson) “Using the STEM dimensions of bioenergy sustainability to bring leading-edge graduate research to K-12 learning settings.”	\$2.6M
2006-08	National Science Foundation Doctoral Dissertation Improvement Grant	\$11,730
2006	Graduate Dean’s Dissertation Research Grant, UC Riverside	\$934
2005-08	UC Riverside Graduate Student Association Travel Grants (4X)	\$2000
2004	Pacific Rim Research Program Grant	\$2593
2004	Orthopterists’ Society Grant	\$1000
2003	Ecology and Evolution Graduate Research Grant	\$4000

Extramural Grants In Review

2016	National Science Foundation, IOS – Behavioral Processes	\$605,571
	<i>Invited Full Proposal</i>	
	PI: R.M. Tinghitella (Co-PI J. Gumm)	
	“Collaborative Research: How does the evolutionary loss of exaggerated male traits contribute to the build-up of reproductive isolation?”	

Extramural Student Grants Awarded

Graduate Students

2016	Whitley Lehto*	Animal Behavior Society Student Grant	\$2000
2015	Whitley Lehto*	Rosemary Grant Award, Society for Study of Evolution	\$2500

Undergraduate Students

2016	Faith Lierheimer**	Turner Award, Animal Behavior Society	\$1075
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XII. Intramural Funding

Current

2016-17	CCESL STEM Education Mini-grant	\$750
2016	CCESL Engaged Scholar Program - High Impact STEM Education	\$750
2016-17	CCESL Public Good Fund	\$18,884
	Co-awarded with Drs. Jennifer Hoffman and Shannon Murphy	
	“DU SciTech: A STEM summer camp for girls from underrepresented backgrounds at the University of Denver.”	
2015-16	University of Denver Research Post Doctoral Fellows Award	\$65,000
	Co-awarded with Dr. Shannon Murphy	
2014-16	Professional Research Opportunities for Faculty (PROF) Grant	\$29,154
	Co-awarded with Dr. Thomas Quinn	
	“The genomics of rapid morphological and behavioral change in mating signals.”	

Completed

2015-16	One New Thing Grant, Office of Teaching and Learning	\$500
2015-16	NSM Olin Faculty Development Award	\$3,390
	Co-awarded with Dr. Shannon Murphy	
2015	Marsico Visiting Scholar Grant for Dr. Jason Keagy, Michigan State University	\$1,350
2015	Marsico Visiting Scholar Grant for Dr. Genevieve Kozak, Tufts University	\$1300
2014	Marsico Visiting Scholar Grant for Dr. Liliana Lettieri, Michigan State University	\$1450

Intramural Student Grants/Fellowships Awarded

Graduate Students

2014 Whitley Lehto, Inclusive Engagement Fellowship \$1,000

Undergraduate Students

2016 Clara Jenck, Summer Research Grant. \$3500
"Predator exposure of threespine stickleback parents influencing offspring mating decisions."
2015 Angus Kitchell, PinS Grant. \$1462
"Population density and sperm competition in the Pacific field cricket, *Teleogryllus oceanicus*."
2015 Brian Ketterman, Summer Research Grant. \$3500
"A test for correlated sexual signals among populations of threespine sticklebacks (*Gasterosteus aculeatus*) that differ in nuptial coloration."
2015 Clara Jenck, Pustmueller Grant. \$3500
"Do parental effects extend through development to alter mate choice?"
2014 Victoria Faith Lierheimer, Summer Research Grant. \$3269
"Does mate availability alter maternal investment in offspring in the Pacific field cricket, *Teleogryllus oceanicus*?"
2014 Jolysa Gallegos, Pustmueller Grant. \$3500
"Male competition and the loss of red throat color in sticklebacks."
2014 Angus Kitchell, Summer Research Grant. \$3457
"Population density and sperm competition in the Pacific field cricket, *Teleogryllus oceanicus*."
2014 Kyle Robrock, Summer Research Grant. \$3500
"The role of cognition in sexual signaling and mate choice decisions."
2014 Emrys Andromeda-Focht, Pustmueller Grant. \$3500
"Can acoustically orienting natural enemies assess the size of their prey items?"
2013 Victoria Faith Lierheimer, Summer Research Grant. \$3498
"Mate choice when mate availability varies."
2013 Joey Fisher, Summer Research Grant. \$3489
"The loss of sexually selected traits through changes in female choice."

XIII. Student Advising

Graduate Students, Advisor

2016-18 Claudia Hallagan, M.S. Thesis Title: TBD (Co-advised with S. Murphy)
2016-18 Victoria Faith Lierheimer, M.S. Thesis Title: TBD
2015-17 Gabrielle Gurule-Small, M.S. Thesis Title: "Fitness effects of noise pollution in an invertebrate."

- 2013-18 Whitley Lehto, Ph.D. Thesis Title: "Predator-induced, stress-mediated parental effects alter female offspring mate choice."
- 2013-15 Ross Minter, M.S. Thesis Title: "The role of cognition in sexual signaling and mate choice decisions."

Graduate Students, Committee Member

- 2015-17 Lisa Clark, M. S. Thesis Title: TBD
- 2015-16 Joe Statwick, Ph.D. Thesis Title: The ecology and evolution of rare, soil specialist *Astragalus* plants in the arid western U.S.
- 2014-16 Darin Schulte, Ph.D. Thesis Title: "Spatially explicit modeling of plant community dynamics."
- 2014-19 Annie Henry, Ph.D. Thesis Title: TBD
- 2014-16 Brent Horowitz, M.S. Thesis Title: "Panmixia across the range of the assortatively mating Lesser Snow Goose"
- 2013-17 Laurel Cepero, M.S. Thesis Title: "How fire and post-fire recovery influence tri-trophic interactions."
- 2013-18 Mayra Vidal, Ph.D. Thesis Title: "Ecological speciation in herbivorous insects."
- 2011-17 Elizabeth Barnes, Ph.D. Thesis Title: "Plant-mediated competition between herbivorous insects."
- 2010-16 Kylee Grenis, Ph.D. Thesis Title: "Light pollution as an ecological trap for moths."

Undergraduate Students, Thesis Advisor

- 2018 Lucas Sloan Title TBD
- 2017 Clara Jenck Title TBD
- 2017 Aaron Sexton Title TBD
- 2016 Brian Ketterman. " A test for correlated sexual signals among populations of threespine sticklebacks (*Gasterosteus aculeatus*) that differ in nuptial coloration"
- 2016 Victoria Faith Lierheimer. "The quantity and quality of mates alters mating behavior and investment in the Pacific field cricket, *Teleogryllus oceanicus*."
- 2016 Angus Kitchell. "Geographic variation in sperm competition in the Pacific field cricket, *Teleogryllus oceanicus*."
- 2015 Jolysa Gallegos. "Male competition and the loss of red throat color in sticklebacks."

Undergraduate Students: Research experience in my lab (not including Thesis students above)

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| 1. Dalton Larrinaga | 11. Mikki Mesfin |
| 2. Grace Fierle | |
| 3. Emma Phillips | |
| 4. Kyle Robrock | |
| 5. Aimee Molloy | |
| 6. Joey Fisher | |
| 7. Emrys Andromeda-Focht | |
| 8. Annie Halseth | |
| 9. Rebecca Hollmann | |
| 10. Ian Moffit | |

XIV. Service and Outreach

Departmental, Divisional and University Service

- 2016 Faculty Search Committee member, Evolutionary Biologist
- 2016 IRISE Postdoc Search Committee member, Equity in STEAM (Science, Technology, Engineering, Art, and Math)
- 2015 Faculty Search Committee member, Plant Ecologist
- 2015- NSMentoring Program - faculty mentor
- 2014- Graduate Committee, Department of Biological Sciences
- 2014- Undergraduate Admissions Recruiting, meetings with prospective students and their parents, Department of Biological Sciences
- 2014- Undergraduate Honors Committee, Department of Biological Sciences
- 2014- Pioneer Days (I have helped 2 times)
- 2013-14 Seminar Coordinator, Department of Biological Sciences

Service to Professional Societies

- 2014 Scientific Advisory Committee for the International Society for Behavioral Ecology, Annual Meeting
- 2014 Session Chair, International Society for Behavioral Ecology Annual Meeting

Community Education and Outreach

- 2016- Co-coordinator DU SciTech. This is a week-long STEM Summer Camp hosted at DU for middle school girls from Denver Public Schools who are from groups historically underrepresented in the sciences. I co-coordinated, funded, and ran the entire camp with two other DU NSM faculty members. The camp was free for all girls attending!
- 2015- Member, Denver Girls in STEM Group.
- 2015 Virtual lab tour for >180 middle school students from Highlands Ranch Schools, introducing students to research on ecology, evolution, and animal behavior.
- 2015 Presenter at RUSciTech. Presented a biodiversity module at Regis' RU SciTech camp for middle school girls from groups that are historically underrepresented in the sciences.
- 2014 "Rapid Evolution Roadshow" presented to >180 7th grade students at Mountain Ridge Middle School. Quarterly visits to the school during the school year, plus a 1x virtual lab visit.
- 2013 "Rapid Evolution Roadshow" presented to >180 7th grade students at Mountain Ridge Middle School. Quarterly visits to the school, plus a 1x per year virtual lab visit.
- 2013 DU Day of Action - Munroe Elementary School Visit to the University of Denver, workshop leader (with Dr. Shannon Murphy). Designed and 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 Education and Outreach Committee, Kellogg Biological Station.

- 2011-13 Guest blogger for BEACON Center for the Study of Evolution in Action.
- 2009 SW Michigan COPUS (Coalition on Public Understanding of Science) Committee
- 2009 Facilitator and Judge, Michigan Science Olympiad Tournament, East Lansing, MI.
- 2006 Science Fair judge for elementary schools in Riverside, CA.

XV. Courses Taught (by quarter)

<u>Quarter</u>	<u>Course</u>	<u>Title</u>	<u># Students</u>	<u>Credit Hours</u>
Fall 2016	BIOL 2010-1	General Ecology	38	4
Fall 2016	BIOL 2010-2	General Ecology	37	4
Fall 2016	BIOL 3995-1	Independent Research	1	1
Fall 2016	BIOL 3991-1	Independent Study	1	2
Summer 2016	BIOL 5995	Independent Research PhD	1	4
Spring 2016	BIOL 3995-6	Independent Research	1	1
Spring 2016	BIOL 4994-3	Independent Research	1	8
Spring 2016	BIOL 5995-1	Independent Research PhD	1	8
Winter 2016	BIOL 3995-3	Independent Research	2	1-2
Winter 2016	BIOL 4995-10	Independent Research	1	3
Winter 2016	BIOL 5995-1	Independent Research PhD	1	6
Fall 2015	BIOL 4330-1	Foundations in Literature: Ecology	5	2
Fall 2015	BIOL 2010-1	General Ecology	29	4
Fall 2015	BIOL 2010-2	General Ecology	41	4
Fall 2015	BIOL 3995-4	Independent Research	2	1
Fall 2015	BIOL 4995-3	Independent Research	2	4-6
Spring 2015	BIOL 3995-3	Independent Research	3	1-2
Spring 2015	BIOL 3995-5	Independent Research	1	2
Spring 2015	BIOL 4995-11	Independent Research	1	5
Spring 2015	BIOL 4995-3	IS Behavioral Ecology Rsch	1	8
Winter 2015	BIOL 3410-1	Animal Behavior	16	4
Winter 2015	BIOL 4995-6	Independent Research	1	7
Winter 2015	BIOL 4995-7	Independent Research	1	5
Fall 2014	BIOL 4220-1	Grad Seminar: Ecology Evolution	6	2
Fall 2014	BIOL 3995-11	Independent Research	1	1
Fall 2014	BIOL 4995-3	Independent Research	1	4
Fall 2014	BIOL 4995-4	Independent Research	1	4
Spring 2014	BIOL 4995-8	Independent Research	2	6-8
Spring 2014	BIOL 3991-2	IS: Applied Rsch: Lab & Field	2	4
Spring 2014	BIOL 3995-10	Independent Research	1	2
Winter 2014	BIOL 4220-1	Grad Seminar: Ecology Evolution	9	2
Winter 2014	BIOL 4995-3	Independent Research	2	3
Fall 2013	BIOL 2010-1	General Ecology	23	4
Fall 2013	BIOL 2010-2	General Ecology	32	4
Fall 2013	BIOL 3995-4	Independent Research	3	1-4
Fall 2013	BIOL 4995-8	Independent Research	2	2
Spring 2013	BIOL 4332-1	Foundations in Literature: Ecology	5	2
Winter 2013	BIOL 3991-14	IS: Behavioral Ecology Rsch	1	1

XV. Teaching Evaluations (Scale 1 = low, 6 = high)

- 1 = Topics covered in this class were stimulating
 2 = The formats for the lectures and the lecture presentations were informative
 3 = I found the content of this course to be challenging
 4 = The criteria for grading in this course were clear
 5 = I learned a great deal in this course
 6 = Overall, this is an excellent course
 7 = The instructor was clearly knowledgeable of the material presented in class
 8 = The instructor has excellent communication skills
 9 = Overall, this is an effective instructor

Term									
Course	1	2	3	4	5	6	7	8	9
Fall 2015									
Fndts in Lit: Ecology I	5.8	5.8	5.2	5.2	5.8	5.8	6	6	6
General Ecology - 1	4.8	4.9	4.6	4.9	4.6	4.5	5.3	5.4	5.4
General Ecology - 2	5	4.7	5	4.4	4.8	4.5	5.6	5.1	5.1
Winter 2015									
Animal Behavior	5.9	6	5.6	5.3	5.9	5.9	6	5.7	5.9
Fall 2014									
Grad Seminar: Ecol & Evol	6	6	5.8	5.5	6	6	6	6	6
Winter 2014									
Grad Seminar: Ecol & Evol	6	5.1	5.8	5.3	5.8	5.8	5.9	6	5.9
Fall 2013									
General Ecology - 1	4.4	4.3	4.9	4.5	4.1	4.1	5.8	5.8	5.6
General Ecology - 2	4.3	4.3	4.5	4.5	4.3	4	5.6	5.2	5.4
Spring 2013									
Fndts in Lit: Ecology III	5.8	5.8	5.8	5.8	5.5	5.8	5.8	6	6
Mean Tinghitella	5.3	5.2	5.2	5.0	5.2	5.2	5.8	5.7	5.7
Mean Biology Dept	4.6	4.6	4.9	4.7	4.7	4.5	5.3	4.8	4.8
St Deviation Tinghitella	0.7	0.7	0.5	0.5	0.7	0.9	0.2	0.4	0.3
St Deviation Biology Dept.	1.3	1.3	1.1	1.4	1.3	1.4	1.0	1.3	1.3
% Response Tinghitella	65.1	65.1	65.1	65.1	65.1	64.5	65.1	65.1	65.1
% Response Biology Dept.	56.7	56.5	56.6	56.7	56.9	56.7	63.4	63.3	63.3