

# Erica L. Larson

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## Education

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- 2006 - 2013 PhD, Cornell University, Ithaca NY  
Ecology and Evolutionary Biology  
Advisor: Richard Harrison  
Committee Members: Kerry Shaw, Brian Lazzaro
- 2000 - 2004 BS, Western Washington University, Bellingham WA  
Biology, Chemistry Minor, Magna cum laude  
Advisor: Merrill Peterson

## Professional Appointments

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- 2023 - Associate Professor, Department of Biological Sciences, University of Denver
- 2017 - 2023 Assistant Professor, Department of Biological Sciences, University of Denver  
(Maternity leave Spring quarter 2021)
- 2013 - 2017 Postdoctoral Research Associate, Division of Biological Sciences, University of Montana, Missoula MT, Advisor: Jeffrey Good

## Emphasis of Research

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Speciation, hybridization, sexual selection, sex chromosome evolution, population genetics and genomics, evolution of gene expression

## Peer-reviewed Publications

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2,365 citations, H-index 22

Total peer-reviewed publications = 40; Total at DU since 2017 = 21 (mean = 3.5/year); Total published works = 43; Total first, corresponding, or senior author = 25 (58%)

\*\*\* denotes undergraduate mentee co-author

\* denotes postdoc or tech mentee co-author

\*\* denotes graduate student mentee co-author

^ denotes co-senior authorship

40. Garlovsky MD, Whittington E, Albrecht T, Arenas-Castro H, Castillo DM, Keais GL; **Larson EL**, Moyle L, Plakke M, Reifová R, Snook RR, Ålund M, AAT Weber. Synthesis and scope of the role of postmating prezygotic isolation in speciation. Cold Spring Harbor Perspectives in Biology. In press.

39. Firneno TJ\*, Welsh GT, Nimlos PJ and **EL Larson**. “I think”: integrating project-based learning and case study to teach fundamentals of evolutionary tree building and tree thinking. Evolution: Education and Outreach. 16:13. <https://doi.org/10.1186/s12052-023-00192-8>
38. Firneno TJ\*, Semenov G, Dopman EB, Taylor SA, **Larson EL**, and Z Gompert. Quantitative analyses of coupling in hybrid zones. Cold Spring Harbor Perspectives in Biology: a041434. <http://doi.org/10.1101/cshperspect.a041434>
37. Byerly AR \*\*, Jenck C\*, Goetz A, Weissman DB, Gray DA, Ross CL, Maroja LS and **EL Larson**. Geographic variation in phenotypic divergence between two hybridizing field crickets. Journal of Orthoptera Research. 32:189-200. <http://doi.org/10.3897/jor.32.90713>
36. Kopania EEK, Watson EM, Rathje CC, Skinner BM, Ellis PJI, **Larson EL**<sup>^</sup> and JM Good. 2022. The contribution of sex chromosome conflict to disrupted spermatogenesis in hybrid mice. Genetics 222: iyac151. <https://doi.org/10.1093/genetics/iyac151>
35. Byerly AR \*\*, Firneno TJ \*, Beard R \*\*\*, and **EL Larson**. The role of community science in orthopteran research. Journal of Orthoptera Research. 32: 109-114. <https://doi.org/10.3897/jor.32.90444>
34. **Larson EL** and SA Taylor. 2022. Geography of speciation. Oxford Bibliographies in Evolutionary Biology. <https://doi.org/10.1093/OBO/9780199941728-0142>
33. Jenck CS\*, Lehto WR, Hunnicutt KE \*\*, Murphy SM, Quinn TW, **Larson EL**<sup>^</sup> and RM Tinghitella. 2022. Genetic divergence among threespine stickleback that differ in nuptial coloration. Journal of Evolutionary Biology 35: 934-947. <https://doi.org/10.1111/jeb.14035>
32. Moore EC, Thomas GWC, Mortimer S, Kopania EEK, Hunnicutt KE \*\*, Clare-Salzler ZJ, **Larson EL**, and JM Good. 2022. The evolution of widespread recombination suppression on the Dwarf Hamster (*Phodopus*) X chromosome. Genome Biology and Evolution 14: evac080. <https://doi.org/10.1093/gbe/evac080>
31. The Global Urban Evolution Project. 2022. Parallel environmental and evolutionary change in response to urbanization on a global scale. 1 of 288 authors. Science 375: 1275-1281. <https://doi.org/10.1126/science.abk0989>
30. **Larson EL**, Kopania EEK, Hunnicutt KE \*\*, Vanderpool D, Keeble S, and JM Good. 2022. Stage-specific disruption of X chromosome expression during spermatogenesis in sterile house mouse hybrids. G3: Genes | Genomes | Genetics 12: jka407. <https://doi.org/10.1093/g3journal/jkab407>

29. Kopania EEK, **Larson EL**, Callahan C, Keeble S, and JM Good. 2022. Molecular evolution across mouse spermatogenesis. *Molecular Biology and Evolution* 39: msac023. <https://doi.org/10.1093/molbev/msac023>
28. Hunnicutt KE \*\*, Good JM, and **EL Larson**. 2022. Unraveling patterns of disrupted gene expression across a complex tissue. *Evolution* 76: 275-291. <https://doi.org/10.1111/evo.14420>
27. Butlin RK, Servedio MR, Smadja CM, Bank C, Barton NH, Flaxman SM, Giraud T, Hopkins R, **Larson EL**, Maan ME, Meier J, Merrill R, Noor MAH, Ortiz-Barrientos D and A Qvarnström. 2021. Homage to Felsenstein 1981, or why are there so few/many species? *Evolution* 75: 978-988. <https://doi.org/10.1111/evo.14235>
26. **Larson EL**, Tinghitella RM, and SA Taylor. 2019. Insect hybridization and climate change. *Frontiers Ecology and Evolution*. 7: Article 348. <https://doi.org/10.3389/fevo.2019.00348>
25. **Larson EL**, Brassil MM, Maslan J, Juárez D, Lilagan F, Tipton H, Schweitzer A, Skillman J, Monsen-Collar KJ, and MA Peterson. 2019. The effects of heterospecific mating frequency on the strength of cryptic reproductive barriers. *Journal of Evolutionary Biology* 32: 900-912. <https://doi.org/10.1111/jeb.13495> [Featured cover article]
24. Skinner BM, Rathje CC, Bacon J, Johnson EEP, **Larson EL**, Kopania EEK, Good JM, Yousafzai G, Affara NA, and PJI Ellis. 2019. A high-throughput method for unbiased quantitation and categorization of nuclear morphology. *Biology of Reproduction* 100: 1250 - 1260. <https://doi.org/10.1093/biolre/iox013>
23. Taylor, SA and **EL Larson**. 2019. Insights from genomes into the evolutionary importance and prevalence of hybridization in nature. *Nature Ecology and Evolution* 3: 170-177. <https://doi.org/10.1038/s41559-018-0777-y>

Recognized as a DU Highly Cited Paper in 2020

22. Skinner BM, Bacon J, Rathje CC, **Larson EL**, Kopania EEK, Good JM, Affara NA, and PJI Ellis. 2019. Automated nuclear cartography reveals conserved sperm chromosome territory localization across 2 million years of mouse evolution. *Genes* 10:109. <https://doi.org/10.3390/genes10020109>
21. **Larson EL**, Kopania EEK, and JM Good. 2018. Spermatogenesis and the evolution of mammalian sex chromosomes. *Trends in Genetics* 34: 722-732. <https://doi.org/10.1016/j.tig.2018.06.003>
20. **Larson EL**, Vanderpool D, Sarver BAJ, Callahan C, Keeble S, Provencio LP, Kessler MD, Stewart V \*\*\*, Nordquist E \*\*\*, Dean MD, and JM Good. 2018. The evolution of

polymorphic hybrid incompatibles in house mice. *Genetics* 209: 845-859.  
<https://doi.org/10.1534/genetics.118.300840>

**Editor's Choice Award for Outstanding Population Genetics Article** – awarded to one article published in *Genetics* each year

19. Chang PL, Kopania E, Keeble S, Sarver B, **Larson EL**, Orth A, Belkhir K, Boursot P, Bonhomme, F, Good JM, and MD Dean. 2017. Whole exome sequencing of wild-derived inbred strains of mice improves power to link phenotype to genotype. *Mammalian Genome* 28:416-425. <https://doi.org/10.1007/s00335-017-9704-9> [Featured cover article]

----- Began appointment at DU in 2017 -----

18. **Larson EL**, Keeble S, Vanderpool D, Dean MD, and JM Good. 2017. The composite regulatory basis of the large X-effect in mouse speciation. *Molecular Biology and Evolution* 34: 282-295. <https://doi.org/10.1093/molbev/msw243>

**Fast Track Article** – Articles that are considered innovative, impactful, and receive the highest enthusiasm from MBE's reviewers and editors.

17. **Larson EL**, Vanderpool D, Keeble S, Zhou M, Sarver BAJ, Smith A, Dean MD and JM Good. 2016. Contrasting levels of molecular evolution on the mouse X chromosome. *Genetics* 203: 1841-1857.  
<https://doi.org/10.1534/genetics.116.186825>

Article featured in **Issue Highlights**. <https://doi.org/10.1093/genetics/203.4.NP>

16. Harrison RG and **EL Larson**. 2016. Heterogeneous genome divergence, differential introgression, and the origin and structure of hybrid zones. *Molecular Ecology* 25: 2454-2466. <https://doi.org/10.1111/mec.13582>
15. Lewis EM, Fant JB, Moore MJ, Hastings AP, **Larson EL**, Agrawal AA and KA Skogen. 2016 Microsatellites for *Oenothera gayleana* and *O. hartwegii* subsp. *Filifolia* (Onagraceae), and their utility in section *Calylophus*. *Applications in Plant Sciences* 4: 1500107. <https://doi.org/10.3732/apps.1500107>
14. Maroja LS, **Larson EL**, Bogdanowicz SM and RG Harrison. 2015. Genes with restricted introgression in a field cricket hybrid zone are concentrated on the X-chromosome and one autosome location. *G3: Genes | Genomes | Genetics* 5: 2219 – 2227. <https://doi.org/10.1534/g3.115.021246>
13. Taylor SA, **Larson EL** and RG Harrison. 2015. Hybrid zones: Windows on climate change. *Trends in Ecology and Evolution* 30: 398-406.  
<https://doi.org/10.1016/j.tree.2015.04.010> [Featured cover article]

12. Harrison RG and **EL Larson**. 2014. Hybridization, introgression and the nature of species boundaries. Journal of Heredity 105: 795-809.  
<https://doi.org/10.1093/jhered/esu033>

Journal of Heredity's Top 10 Most Viewed Articles

11. Maroja LS, McKenzie ZM, Hart E, Jing J, **Larson EL** & D Richardson. 2014. Barriers to gene exchange in hybridizing field crickets: the role of male courtship effort and cuticular hydrocarbons. BMC Evolutionary Biology 14: 65.  
<https://doi.org/10.1186/1471-2148-14-65>

10. **Larson EL**, White T, Ross CL, and RG Harrison. 2014. Gene flow and the maintenance of species boundaries. Molecular Ecology 23: 1668-1678.  
<https://doi.org/10.1111/mec.12601> [Featured cover article]

Featured in **News & Views**: Vines 2014. Molecular Ecology, 23: 1647-1649.

9. **Larson EL**, Becker GC, Bondra ER \*\*\* and RG Harrison. 2013. Structure of a mosaic hybrid zone between the field crickets *Gryllus firmus* and *G. pennsylvanicus*. Ecology and Evolution 3: 985-1002. <https://doi.org/10.1002/ece3.514>

8. **Larson EL**, Andres JA, Bogdanowicz SB and RG Harrison. 2013. Differential introgression in a mosaic hybrid zone reveals candidate barrier genes. Evolution 67: 3653-3661. <https://doi.org/10.1111/evo.12205>

Featured in special issue for 75<sup>th</sup> Anniversary of Evolution: Linnen, C.R., Brandvain, Y. and Unckless, R.L., 2022. Theme: Recent work in speciation research by women authors. Evolution. [1 of 23 women scientists highlighted]

7. Andres JA, **Larson EL**, Bogdanowicz SB and RG Harrison. 2013. Patterns of transcriptome divergence in the male accessory gland of two closely related species of field crickets. Genetics 193: 501-513. <https://doi.org/10.1534/genetics.112.142299>

Associated Education Primer: Whittkopp P.J. 2013. Genetics 193: 671-675.

6. Saleh N \*\*\*, **Larson EL** and RG Harrison. 2013. Body size and reproductive success in the cricket *Gryllus firmus*. Journal of Insect Behavior 27: 346 - 356.  
<https://doi.org/10.1007/s10905-013-9425-1>

5. **Larson EL**, Andres JA, and RG Harrison. 2012 Influence of the male ejaculate on post-mating prezygotic barriers in field crickets. PLoSOne 7:e46202.  
<https://doi.org/10.1371/journal.pone.0046202>

4. **Larson EL**, Hume GL, Andres JA and RG Harrison. 2012. Post-mating prezygotic barriers to gene exchange in hybridizing field crickets. Journal of Evolutionary Biology 25: 174-186. <https://doi.org/10.1111/j.1420-9101.2011.02415.x>

3. Peterson MA, **Larson EL**, Brassil M, Buckingham K, Juárez D, Deas J, Mangloña D, White M, Maslan J, Schweitzer J, and KJ Monsen. 2010. Cryptic gametic interactions confer both conspecific and heterospecific advantages in the *Chrysochus* (Coleoptera: Chrysomelidae) hybrid zone. *Genetica* 139: 663-667. <https://doi.org/10.1007/s10709-011-9567-z>
2. **Larson EL**, Bogdanowicz SM, Agrawal AA, Johnson MTJ and RG Harrison. 2008. Isolation and characterization of polymorphic microsatellite loci in common evening primrose (*Oenothera biennis*). *Molecular Ecology Notes* 8: 434-436. <https://doi.org/10.1111/j.1471-8286.2007.01983.x>
1. Peterson MA, Dobler S, **Larson E**, Juarez D, Schlarbaum T, Monsen KJ, and W Francke. 2007. Cuticular chemical profiles mediate male mate choice and sexual isolation between hybridizing *Chrysochus* (Coleoptera : Chrysomelidae). *Chemoecology* 17: 87-96. <https://doi.org/10.1007/s00049-007-0366-z>

#### Perspectives and Book Reviews

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3. **Larson EL** and KE Hunnicutt \*\*. 2020. The beautiful chromosomes of shrews. *Evolution* 74: 1584-1586. <https://doi.org/10.1111/evo.14019>
2. **Larson EL**. 2019. Antagonistic coevolution of Y and X. *Nature Ecology and Evolution* 3: 1505-1506. <https://doi.org/10.1038/s41559-019-1006-z>
1. Fitzpatrick JL and **EL Larson**. 2018. Finding sperm in the English countryside – the 14th Biology of Spermatozoa Meeting. *Molecular Reproduction and Development* 85: 371-373. <https://doi.org/10.1002/mrd.22986>

#### In Review – manuscripts available on bioRxiv or on request

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2. Firreno TJ\*, Welsh GT, Gumm JM, **Larson EL**, and RM Tinghitella. The evolution of sensory systems after signal change in threespine stickleback.
1. Galvin J, **Larson EL**, Yedigarian S, Rahman M, Borziak K, DeNieu M, and MK Manier. Genetic coordination of sperm morphology and seminal fluid proteins promotes male reproductive success in *Drosophila melanogaster*. <https://doi.org/10.1101/2021.11.15.468624>

#### In Final Preparation – complete manuscripts available on request

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3. Hunnicutt KE\*\*, Demboski JR, Knaven U\*\*\*, and **EL Larson**. Hybridization and cryptic species ranges in Colorado cottontails. In prep for *Molecular Ecology*.
2. Galvin J, **Larson EL**, MK Manier. *heartless*-mediated fibroblast growth factor signaling and extracellular chitin contribute to tubulogenesis in the *Drosophila melanogaster* seminal receptacle. In prep for *G3*.

1. Hunnicutt KE\*\*, Moore EC\*, Callahan C, Keeble S, Good JM and **EL Larson**. The evolution of hybrid sterility in dwarf hamsters. In prep for Molecular Biology and Evolution.

#### Editorial Features of My Research

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- 2022 National Geographic: Ligers, zorses, and pizzlies: How animal hybrids happen. By Jason Bittel. <https://www.nationalgeographic.com/animals/article/ligers-zorses-pizzlies-how-animal-hybrids-happen>
- 2022 Recent work in speciation research by women authors, by Linnen CR, Brandvain Y, and RL Unckless. Special feature for Evolution. 1 of 26 featured women scientists. Linnen, C.R., Brandvain, Y. and Unckless, R.L., 2022. Theme: Recent work in speciation research by women authors. Evolution.

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Extramural Funding Total: \$3,815,754 Total to DU: \$2,004,848

2022 - 25	Swedish Foundation for International Research and Higher Education (STINT) PI: A Runemark, Co-PI: EL Larson Award in SEK: 470,000, “The role of gene expression in ecological adaptation following a host plant shift: a collaboration”	\$44,331
2020 - 25	National Science Foundation, Division of Environmental Biology Evolutionary Processes, Rules of Life PI: EL Larson, Co-PIs: RM Tinghitella, LS Maroja Total Award: \$1,925,337, \$112,359 award in supplemental funding “Collaborative Research: The evolution and maintenance of variable species boundaries”	\$1,613,157
2020 - 24	National Science Foundation, Division of Integrative Organismal Systems Behavioral Processes PI: DJ Emlen, Co-PIs: B Swanson, EL Larson Total Award: \$1,761,111 “Collaborative Research: Multimodal signaling in rhinoceros beetles”	\$263,387
2020 - 21	Jefferson County Open Space, Small Research Grant PI: EL Larson, Co-PI: Kelsie Hunnicutt “The impact of urbanization on past and present hybridization in cottontails”	\$5,000
2019 - 21	National Science Foundation RCN UBC	\$74,975

“RCN-UBC Incubator: Enhancing Undergraduate Biology Education through Science Communication”  
 PI: S Murphy, Co-PIs: A Sher, EL Larson, P Martin, RM Tinghitella

2019	American Genetics Association PI: EL Larson, Co-PIs: SA Taylor, N Kane “Genomic Data Visualization Workshop”	\$1,000
2019	University of Colorado Boulder Faculty Conference Award PI: SA Taylor, Co-PIs: EL Larson, Nolan Kane “Genomic Data Visualization Workshop”	\$3,000
2010	Orthopterists’ Society Cohn Research Fund	\$1,000

<u>Intramural Funding</u>		<u>Total at DU: \$65,207</u>
2022 - 25	International Partnership & Development Grants	\$41,707
2020 - 22	Professional Research Opportunities for Faculty Grant (Co-awarded with RM Tinghitella)	\$20,000
2019	Olin Faculty Development Fund	\$3,500

----- Began appointment at DU in 2017 -----

2008-12	Paul F. Feeney Graduate Student Research Grant, Cornell University	\$4,700
2008,10,11	Andrew W. Mellon Student Research Grant, Cornell University	\$3,945
2009-11	Sigma Xi Research Award, Sigma Xi Association, Cornell Chapter	\$2,800
2011	Orenstein Endowment Grant, Cornell University	\$750
2011	Cornell Center for Comparative Population Genomics Travel Grant	\$750
2009-12	Conference Travel Award, Graduate School, Cornell University	\$2,120
2010	Research Travel Grant, Graduate School, Cornell University	\$2,000

Extramural Funding to Mentees                      Total: \$739,180    Total to Larson Lab: \$305,180

#### **Postdocs**

2022	Thomas J Firreno	NSF Postdoctoral Fellowship (PRFB)	\$138,000
2022	Thomas J Firreno	Orthopterists’ Society Cohn Research Fund	\$1,500

#### **Co-sponsored Postdocs**

2021	David Zonana	Tinghitella Lab - NSF Postdoctoral Fellowship (PRFB)	\$276,000
2019	Dhaval Vyas	Murphy Lab - NSF Postdoctoral Fellowship (PRFB)	\$153,000

#### **Graduate Students**

2021	Amy Byerly	NSF Graduate Research Fellowship Honorable Mention	
2021	Amy Byerly	Society of Systematic Biologists	\$3,000
2020	Kelsie Hunnicutt	NSF Graduate Research Fellowship	\$138,000
2020	Kelsie Hunnicutt	Society for the Study of Evolution Lewontin Award	\$2,500



2020	Brooke Washburn	Northwest Scientific Association Research Award	\$1,500
2020	Amy Byerly	Orthopterists' Society Cohn Research Fund	\$1,500
2020	Amy Byerly	Explorers Club Mamont Scholar Grant	\$4,680
2020	Brooke Washburn	Society of Systematic Biologists	\$3,000
2020	Kelsie Hunnicutt	Society of Systematic Biologists	\$2,000
2020	Kelsie Hunnicutt	Society for Integrative & Comparative Biology	\$1,000
2019	Brooke Washburn	Sigma Xi Grants in Aid of Research	\$500
2019	Kelsie Hunnicutt	Sigma Xi Grants in Aid of Research	\$1,000
2019	Brooke Washburn	Society for the Study of Evolution Lewontin Award	\$2,500
2019	Kelsie Hunnicutt	American Society of Mammalogists	\$1,500
2019	Brooke Washburn	Orthopterists' Society Cohn Research Fund	\$1,500

**Undergraduate Students**

2020	Uma Knaven	Sigma Xi Grants in Aid of Research	\$1,500
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**Intramural Funding to Mentees**

Total to Larson Lab: \$54,500

**Graduate Students**

2021	Amy Byerly	Inclusive Engagement Fellowship (declined)	\$9,000
2021	Amy Byerly	Shubert Graduate Fellowship Fund	\$500
2020	Kelsie Hunnicutt	Shubert Graduate Fellowship Fund	\$500
2019	Amy Byerly	Graduate Studies Doctoral Fellowship	\$9,000
2018	Kelsie Hunnicutt	Graduate Studies Doctoral Fellowship	\$4,500
2018	Brooke Washburn	Graduate Studies Doctoral Fellowship	\$4,500

**Undergraduate Students**

2023	Ella Mathews	URC Summer Research Grant	\$5,000
2021	Christina Maguire	URC Summer Research Grant	\$3,500
2021	Elise Gellman	URC Summer Research Grant	\$3,500
2019	Uma Knaven	Partners in Scholarship Award	\$1,500
2019	Uma Knaven	URC Summer Research Grant	\$3,500
2019	Abigail Wallin	URC Summer Research Grant	\$3,500
2018	Veronica Cabral	Summer Research Initiative (CO-WY AMP Grant)	\$6,000

**Fellowships, Honors, and Awards**

2023	Faculty Career Champion - nominated by graduating students for supporting student career and post-graduation goals
2022	Excellence in Teaching, Department of Biology, University of Denver
2021	Excellence in Research, Department of Biology, University of Denver
2020	Outstanding Junior Faculty, Department of Biology, University of Denver
2020, 21	Faculty Career Champion - nominated by graduating students for supporting student career and post-graduation goals
2019	Editor's Choice Award for Outstanding Population Genetics Article published in Genetics - one article per year selected
2013	Hamilton Award Finalist, Society for the Study of Evolution
2011,12	Provost's Diversity Fellowship, Cornell University

2011	American Association of University Women Fellowship
2010	Robert H. Whittaker Award for Outstanding Presentation, Cornell University
2009	Outstanding TA, College of Agriculture & Life Sciences, Cornell University.
2007,08	National Science Foundation Graduate Research Fellowship, Honorable Mention
2006	Olin Graduate Fellowship, Cornell University
2004	Outstanding Graduating Senior, Western Washington University
2004	Undergraduate Research Accomplishment Award
2004	SAIC Award for Academic Achievement & Creative Problem-Solving
2003	Department of Biology Faculty Fellowship, Western Washington University
2000	Washington Promise Scholarship

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**Invited Presentations**


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 Total while at DU (external): 21
**Symposia**

2019	Gordon Research Conference on Speciation, Ventura, CA (International)
2018	Population, Evolutionary & Quantitative Genetics, Madison, WI
2017	Biology of Spermatozoa, Bakewell, UK (International)
2017	Spotlight Session at the Society for the Study of Evolution, Portland, OR

**International Seminars**

2020	University of Sheffield, Department of Animal and Plant Sciences, Sheffield, UK
2018	Lund University, Department of Biology, Lund, Sweden
2018	University of Western Australia, School of Biological Studies, Perth, Australia

**Seminars**

\* Graduate student invited speaker

2023	The Jackson Labs, Bar Harbor, ME
2022	Columbia University, Ecology, Evolution and Environmental Biology, New York, NY
2020	Pennsylvania State University, Department of Biology, State College PA
2019	University of Nebraska, Lincoln, Biological Sciences, Lincoln NE
2019	Oregon State University, Department of Integrative Biology, Corvallis OR
2019	Rochester University, Department of Biology, Rochester, NY
2019	University of Wyoming, Zoology and Physiology, Laramie WY
2019	University of California Northridge, Biology, Northridge, CA
2018	* University of Michigan, Ecology and Evolutionary Biology, Ann Arbor, MI
2018	University of Kentucky, Biology, Lexington, KY
2018	University of Colorado, Colorado Springs, Depart. of Biology, Colorado Springs, CO
2017	University of Chicago, Department of Ecology and Evolutionary Biology, Chicago, IL
2017	University of Colorado Denver, Department of Integrative Biology, Denver, CO
2017	* University of Colorado Boulder, Ecology and Evolutionary Biology, Boulder, CO
2017	Cal Poly Pomona, Department of Biological Sciences, Pomona, CA
2017	University of Denver, Department of Biological Sciences, Denver, CO
2017	Mississippi State University, Department of Biological Sciences, Starkville, MS
2017	University of Louisiana, Department of Biology, Lafayette, LA
2017	University of Massachusetts Dartmouth, Biology Department, Dartmouth, MA
2017	University of North Carolina Charlotte, Depart. of Biological Sciences, Charlotte, NC

- 2017 Texas A&M, Department of Biology, College Station, TX
- 2017 University of Minnesota Duluth, Department of Biology, Duluth, MN
- 2016 University of California Davis, Center for Population Biology, Davis, CA
- 2016 University of California Berkeley, The Museum of Vertebrate Zoology, Berkeley, CA
- 2016 University of California San Diego, Ecology and Evolutionary Biology, San Diego, CA
- 2016 University of Arkansas, Department of Biological Sciences, Fayetteville, AR
- 2014 Western Washington University, Department of Biology, Bellingham, WA

### Internal Seminars

- 2022 Department of Biology, Tenure Seminar, University of Denver, Denver, CO
- 2021 Global Environmental Research Seminar
- 2013 University of Montana, Division of Biological Sciences, Missoula, MT
- 2012 Cornell University, Department of Ecology and Evolutionary Biology, Ithaca, NY
- 2011 Evolution Group, Cornell University, Ithaca, NY

### Contributed Presentations

Total while at DU 7

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- 2023 Gordon Research Conference on Speciation, Italy (poster)
  - 2019 Biology of Spermatozoa, Stockholm Sweden (poster, co-author poster)
  - 2019 Society for the Study of Evolution, Providence RI (oral)
  - 2018 Guild of Rocky Mountain Ecologists and Evolutionary Biologists (poster)
  - 2017 Entomological Society of America, Denver CO (oral)
  - 2017 Guild of Rocky Mountain Ecologists and Evolutionary Biologists (oral)
  - 2017 Society for Molecular Biology and Evolution (co-author poster)
  - 2016 Society for the Study of Evolution, Austin TX (oral)
  - 2016 Cytogenetic and genome research, UK (co-author poster)
  - 2015 American Genetics Association, Bainbridge Island, WA (oral, poster)
  - 2015 Gordon Research Conference Speciation, Ventura, CA (poster)
  - 2015 Postdoc Symposium, University of Montana, MT (oral)
  - 2014 Inland Northwest Genomics Symposium, Moscow, ID (poster)
  - 2014 Society for the Study of Evolution, Raleigh, NC (oral, co-author oral)
  - 2013 Biology of Spermatozoa, Bakewell, UK (poster)
  - 2013 Society for the Study of Evolution, Snowbird, UT (oral)
  - 2013 Complex Trait Community, Madison, WI (poster)
  - 2012 Society for the Study of Evolution, Ottawa, ON (oral)
  - 2012 Speciation Day Symposium, Ithaca, NY (poster)
  - 2011 Society for the Study of Evolution, Norman, OK (oral, co-author poster)
  - 2011 Biology of Spermatozoa, Bakewell, UK (poster)
  - 2011 Cornell Center for Comparative and Population Genomics, Ithaca, NY (poster)
  - 2011 Museum of the Earth Summer Research Symposium, Ithaca, NY (poster)
  - 2011 Ecology and Evolutionary Biology Symposium, Cornell University Ithaca, NY (oral)
  - 2010 Society for the Study of Evolution, Portland, OR (poster)
  - 2010 Genetics and the Origin of Species: The Continuing Synthesis, Ithaca NY (poster)
  - 2010 Cornell Center for Comparative and Population Genomics, Ithaca, NY (poster)
  - 2010 Ecology and Evolutionary Biology Symposium, Cornell University Ithaca, NY
  - 2009 Society for the Study of Evolution, Moscow, ID (poster)

Presentations by Mentees

Total while at DU: 20

- 2023 Camille Thomas-Bulle, Society for Molecular Biology and Evolution, Ferrera, Italy (poster)  
 2023 Kelsie Hunnicutt, Society for the Study of Evolution, Albuquerque, NM (oral)  
 2023 Kelsie Hunnicutt, Society for the Study of Evolution, Albuquerque, NM (poster)  
 2023 David Zonana, Society for the Study of Evolution, Albuquerque, NM (oral)  
 2023 Thomas J. Firneno, Society for the Study of Evolution, Albuquerque, NM (poster)  
 2023 Camille Thomas-Bulle, American Society of Naturalists, Asilomar, CA (oral)  
 2023 Thomas J. Firneno, American Society of Naturalists, Asilomar, CA (poster)  
 2022 Kelsie Hunnicutt, GREEBs (oral)  
 2022 Kelsie Hunnicutt, American Genetics Association, Seattle, WA (oral)  
 2022 Kelsie Hunnicutt, Society for the Study of Evolution, Cleveland, OH (oral)  
 2022 Thomas J. Firneno, Society for the Study of Evolution, Cleveland, OH (oral)  
 2022 Thomas J. Firneno, Society for the Study of Evolution, Cleveland, OH (poster)  
 2022 Amy Byerly, Biology Department Seminar Series, DU (oral)  
 2022 Kelsie Hunnicutt, Biology Department Seminar Series, DU (oral)  
 2021 Kelsie Hunnicutt, American Genetics Association, Snowbird, UT (poster)  
 2021 Kelsie Hunnicutt, Society for the Study of Evolution, virtual (oral)  
 2021 Kelsie Hunnicutt, American Society of Mammalogy, virtual (oral)  
 2021 Kelsie Hunnicutt, Biology Department Seminar Series, DU (oral)  
 2021 Uma Knaven, URC Undergraduate Virtual Showcase, virtual (oral)  
 2018 Brooke Washburn, GREEBs (poster)

Student Advising and Mentorship

Total at DU: 5 graduate, 21 undergraduate

**Postdoc Mentor or Co-sponsor**

- 2023 - present Camille Thomas-Bulle  
 2023 - present Emily Moore  
 2022 - 2023 Emily Moore, Good lab, University of Montana, Co-mentored  
 2021 - present Thomas J. Firneno  
 2020 - 2023 Camille Thomas-Bulle, Emlen Lab, University of Montana, Co-mentored  
 2021 - present David Zonana, Tinghitella Lab, Co-sponsored NSF PRFB  
 2019 - 2021 Dhaval Vyas, Murphy Lab, Co-sponsored NSF PRFB

**Graduate Student Thesis Advisor**

- 2023 - present Lauren Wols, MS, Tinghitella Lab, Co-advised  
 2022 - present Scott Melander, PhD  
 2022 - present Alyson Emery, MS  
 2018 - present Kelsie Hunnicutt, PhD, Thesis: "The causes and consequences of mammalian hybridization"  
 2019 - 2022 Amy Byerly, MS, Defended Spring 2022, Thesis: "Morphological variation and community science in Orthoptera"  
 2018 - 2021 Brooke Washburn, PhD, Tinghitella Lab, Co-advised

**Graduate Student Committee Member**

- 2023 – present William Anderson, PhD, University of Colorado Boulder (Taylor Lab)  
 2023 - present Lacey Conrad, PhD (Velotta Lab)  
 2023 - present Riley Corcoran, MS (Velotta Lab)

2022	Blyss Bieber, MS (Murphy Lab)
2021 - present	Peter Nimlos, MS (Velotta Lab)
2021 - present	Jake Pawley, PhD (Nichols Lab)
2021 - present	Aaron Wikle, MS (Tinghitella Lab)
2021 - present	Gabrielle Welsh, PhD (Tinghitella Lab)
2019 - present	James Gallagher, PhD (Tinghitella Lab)
2019 - 2022	Bernadette Doyle, PhD (Nichols Lab)
2019 - 2022	Kathryn Grabenstein, PhD, University of Colorado Boulder (Taylor Lab)
2018 - present	Alexander Goetz, PhD (Sher Lab)
2018 - 2019	Whitley Lehto, PhD (Tinghitella Lab)
2019 - 2022	Erik Funk, PhD, University of Colorado Boulder (Taylor Lab)
2018 - 2019	Jake Wilson, MS (Tinghitella Lab)
2018	Gabrielle Gurule-Small, MS (Tinghitella Lab)
2018 - 2019	Claudia Hallagan, MS (Tinghitella Lab)
2017 – 2018	Mayra Vidal, PhD (Murphy Lab)
2017 – 2018	McCall Calvert, MS, University of Colorado Denver (Ragland Lab)
2017 - 2002	Emily Kopania, PhD, University of Montana (Good Lab)
2017 – 2019	Clara Jenck, MS (Tinghitella Lab)

#### Undergraduate Honors/Thesis of Distinction

2023	Lauren Wols, “Copulation duration in a promiscuous leaf beetle”
2022	Elise Gellman, “Microsatellite genotyping and development of sperm DNA extraction protocols in <i>Gryllus firmus</i> crickets”
2022	Christina Maguire, “Testing microsatellite genotyping in an urban cricket population”
2021	Uma Knaven, “Potential hybridization between three Colorado cottontail rabbit species”

#### Undergraduate Research Experience

1. Lauren Wols <sup>4,6</sup>	11. Christina Maguire <sup>1,6</sup>	21. Amanda Durbin
2. Bian Stahl	12. Isabella Mohr	--- DU 2017 ---
3. Riley Beard <sup>3</sup>	13. Hannah Fine	22. Marc Velling
4. Jayne VanKirk	14. Uma Knaven <sup>1,2,4,5,6</sup>	23. Stephenie Horne
5. Ella Mathews	15. Abigail Wallin <sup>1</sup>	24. Vanessa Stewart <sup>2,3</sup>
6. Genesis Kebebe	16. Veronica Cabral <sup>1,5</sup>	25. Erin Nordquist <sup>3</sup>
7. Sydney Gelhorn	17. Gui Zheng <sup>1</sup>	26. Eliana Bondra <sup>3</sup>
8. Hannah Yi	18. Elizabeth Pacheco <sup>1,5</sup>	27. JeeYun Lee
9. Elise Gellman <sup>1,6</sup>	19. Da Laina Cameron <sup>1</sup>	28. Nicholas Saleh <sup>3,6</sup>
10. Gillian Luczyk	20. Jackson Ferris	29. Hannah Stillings

<sup>1</sup> Intramural grant received

<sup>3</sup> Co-authored publication

<sup>4</sup> Preparing publication

<sup>5</sup> Presentation

<sup>6</sup> Honors/Thesis of Distinction

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Teaching Teaching Load at DU 10-12 quarter credits/year

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**Instructor**University of Denver

2023	BIOL 4330	Introduction to R (2 credits)	5-15 students
2020 - 23	BIOL 3706	Evolution (4 credits)	20-45 students
2019 - 23	BIOL 1011	Evolution, Heredity and Biodiversity (4 credits) Co-taught in 2 sections with Dr. Scott Nichols	200 students
2020, 21	BIOL 4220	Grad Seminar: Ecology Evolution (2 credits)	5-15 students
2018 - 20	BIOL 4330	Foundations in the Literature (2 credits)	5-15 students

Cornell University

2008-10	BIOG 1104	Investigative Biology Laboratory II (1 credit)	20 students
2007-09	BIOG 1103	Investigative Biology Laboratory I (1 credit)	20 students

Western Washington University

2004	BIOL 101	Introductory Biology Laboratory	20 students
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**Guest Lecturer**

2019	BIOL 4150	Advanced Research Analysis, University of Denver
2017	BIOB 272	Genetics and Evolution, University of Montana
2011	BIOEE 4530	Speciation: Genetics, Ecology and Behavior

**Teaching Assistant**

2011	BIOEE 4530	Speciation, Cornell University (4 credits, 30 students)
2011	BIOEE 1780	Evolution and Diversity, Cornell University (4 credits, 350 students)
2002	BIOL 206	Zoology, Western Washington University (1 credit, 20 students)

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Development of Teaching Practice

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2023	Teaching for Inclusion and Equity Micro-credential Program: Intermediate Badge
2023	UDL Your Course: Assistive Technology and the Canvas Course
2023	UDL Your Course: Inclusive Classroom Participation
2022	Neurodiversity Institute
2022	Teaching for Inclusion and Equity Micro-credential Program: Foundational Badge
2022	Faculty Institute for Inclusive Teaching Cohort Six week program
2022	Course Design Institute, Office of Teaching and Learning Week-long workshop on course design
2020	Teaching with Video Online Short Course, Office of Teaching and Learning
2020	Creating Instructional Videos Short Course, Office of Teaching and Learning
2020	Faculty Institute for Inclusive Teaching Training
2020 - 22	Academic Advisor Training
2017	University of Denver Teaching Workshop
2009	Mentoring Workshop, Cornell Ecology and Evolutionary Biology Graduate Program
2009, 10	Empathy, Assistance & Referrals Workshop, Cornell Center for Teaching Excellence
2007	Teaching Workshop, Cornell Center for Teaching Excellence

Service as Reviewer      Total at DU: 65 grants, 78 manuscripts (28.6 external reviews/year)

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### Proposal Review for National and International Funding Agencies

2023      Panelist, National Science Foundation IntBIO (7 proposals)  
 2022      Panelist, National Science Foundation BRC-BIO (8 proposals)  
 2022      Ad hoc reviewer, National Science Foundation DEB  
 2021      Panelist, National Science Foundation DEB (10 proposals)  
 2021      External reviewer, Czech Science Foundation  
 2021      External reviewer, Austrian Science Fund  
 2021      Ad hoc reviewer, National Science Foundation DEB  
 2020      External reviewer, Czech Science Foundation (2 proposals)  
 2020      Ad hoc reviewer, National Science Foundation DEB  
 2019      Panelist, National Science Foundation DEB (15 proposals)  
 2019      External Reviewer, Dutch Research Council  
 2019      External Reviewer, French National Research Agency  
 2018      Panelist, National Science Foundation DEB (12 proposals)  
 2018      External Reviewer, University of Nebraska  
 2018      External Reviewer, Czech Science Foundation  
 2017      External Reviewer, Czech Science Foundation  
 2017      Ad hoc reviewer, National Science Foundation DEB

### Textbook Review

2022      Evolution 3<sup>rd</sup> Edition, by Carl Bergstrom and Lee Dugatkin

### Journal Editorial Roles

2023 -      *Journal of Evolutionary Biology*, Deciding Editor

### Journal Review

Axios	Journal of Insect Physiology (2)
Biological Journal of the Linnean Society	Journal of Mammalogy
Biological Reviews (2)	Molecular Biology and Evolution (9)
Ecological Entomology	Molecular Ecology (26)
Ecology and Evolution	Molecular Ecology Resources (2)
European Journal of Entomology	Molecular Reproduction and Development (2)
European Journal of Wildlife Research (4)	Nature Communications (4)
Evolution (13)	Nature Communications Biology (2)
Evolution Letters (4)	Nature Ecology and Evolution (2)
Evolutionary Applications	PeerJ
Experimental and Applied Acarology	Philosophical Transactions B (2)
Genetics (2)	PloS Biology
Genome Biology and Evolution (5)	PloS Genetics (2)
Genome Research (4)	PLoS One (2)
Heredity (4)	PNAS (3)
Hydrobiologia	Proceedings B
International Journal of Molecular Sciences	Proceedings of the Royal Society
Journal of Biogeography (2)	Royal Society Open Science

Journal of Evolutionary Biology (2)  
Journal of Heredity (3)

Scientific Reports (2)

### Service to Professional Societies and Communities

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2023 Ad hoc reviewer, ForBio, Norwegian Research School in Biosystematics, Marie Skłodowska-Curie Actions Postdoctoral Fellowships Training Program or EU Horizon grants  
2023 Reviewer for EECG Research Awards, American Genetics Association  
2022 Reviewer for Society for the Study of Evolution Rosemary Advance Grant  
2022 - Elected Council Member, American Genetics Association  
2022 Reviewer for EECG Research Awards, American Genetics Association  
2019, 22 Society for the Study of Evolution Hamilton Award Reviewer  
2019 Society of Systematic Biologists Graduate Student Research Awards Reviewer  
2011 - 2013 Co-founder, Cornell Evolution Group  
2011 - 2013 Symposium organizer, Speciation Day Symposium, Cornell University  
2008 - 2012 Secretary, Sigma Xi Alpha Chapter, Cornell University

### Service towards Justice, Equity, Diversity, and Inclusion

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2023 STEM Mentoring Liaison, MERISTEM DU Develop  
2023 iChange Action Plan Committee  
2022 Search Committee Member, MERISTEM DU Develop  
2022 - Organizer, STEM Women Faculty Association  
2022 - Faculty mentor, Women in STEM Club  
2022 - NSF ADVANCE Grant DU MERISTEM DU-Develop Team  
2021 - Natural Sciences and Mathematics Equity and Racial Justices Committee  
2020 - 2021 Steering Committee, NSF ADVANCE Grant DU MERISTEM  
2021, 22 Evolution meeting graduate career mentor  
2020 STEM career exploration, Community College Field Biology Alliance, UCLA  
2019 Mentor for the Gordon Research Symposium on Speciation  
2018 Colorado- Wyoming Alliance for Minority Participation Faculty Mentor  
2016 - 2017 Founder & Co-organizer, University of Montana Women in Science group  
2008 - 2012 Co-chair, Expanding Your Horizons: Science workshop for middle school girls  
2007 Mentor, Expanding Your Horizons: Science workshop for middle school girls

### Service to Department, College, and University

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2023 - Co-Director of Graduate Studies, Biology  
2023 - Departmental Action Team (DAT) member, Biology  
2023 Organizer, Shubert Graduate Fellowship Fund  
2022 - Biology By-Laws Working Group  
2022 Organizer, Shubert Graduate Fellowship Fund  
2019 - 2020 Faculty Search Committee Member (Evolutionary Biology)  
2019 - Graduate Student Committee, Department of Biological Sciences  
2019 Undergraduate Admissions Recruiting  
2019 - Sustainability Council, University of Denver



2018 - Grounds and Garden Committee, University of Denver  
 2018 - 2020 Seminar Series Coordinator, Department of Biological Sciences  
 2017 - 2022 Undergraduate Honors Committee, Department of Biological Sciences  
 2020, 22 Organizer, Shubert Graduate Fellowship Fund  
 2017 - 2020 Reviewer, Shubert Graduate Fellowship Fund  
 2017 Reviewer, Knoebel Institute Research Pilot Proposals

### Community Education and Engagement

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2018 - Volunteer, University of Denver Nature Challenge (twice yearly)  
 2016 - 2017 Co-organizer, The Genome Experience: interdisciplinary public outreach  
 2010 Co-creator Science workshop for speciation exhibit, Museum of the Earth  
 2010 Co-organizer, Science from the Slope: Public Science Communication Event

### Professional Memberships

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Society for the Study of Evolution	American Society of Naturalists
Genetics Society of America	Entomological Society of America
American Genetics Association	American Society of Mammalogists
Society for Molecular Biology and Evolution	Orthopterists Society
American Association for University Women	Sigma Xi

### Professional Development

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2023 Considering the Role of Student Voice in Teaching Evaluation  
 2023 Faculty Self-Reflection, Portfolios, and Statements for Teaching Evaluations  
 2022 Valuing DEI/Inclusive Teaching in Promotion and Tenure Workshop  
 2022 Bias in Promotion and Tenure Decisions Workshop  
 2016 Big Data Management, University of Montana  
 2014 Programming for Genomics, University of Montana  
 2011 Linux for Biologists, Cornell Center for Comparative & Population Genomics  
 2011 GBS, Cornell Center for Comparative & Population Genomics  
 2010 Next Gen Sequencing, Cornell Center for Comparative & Population Genomics