

CURRICULUM VITAE

**KENNETH D. WHITNEY**

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MSC03 2020  
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**APPOINTMENTS**

- 2019-present Professor, University of New Mexico, Department of Biology
- 2017-present Associate Chair, University of New Mexico, Department of Biology
- 2012-2019 Associate Professor, University of New Mexico, Department of Biology
- 2012 Associate Professor, Rice University, Dept. of Ecology and Evolutionary Biology
- 2005-2012 Assistant Professor, Rice University, Dept. of Ecology and Evolutionary Biology
- 2003-2005 Postdoctoral Fellow, Indiana University; Advisor: Loren H. Rieseberg

**ADJUNCT AND OTHER APPOINTMENTS**

- 2014-present Senior Research Fellow, UCLA Center for Tropical Research (CTR)
- 2010-present Adjunct Graduate Doctoral Faculty, Texas State University – San Marcos
- 2009-present Faculty, Rocky Mountain Biological Laboratory

**EDUCATION**

- 2003 Ph.D., Population Biology, University of California at Davis  
Major professor: Maureen L. Stanton  
Committee Members: Sharon Y. Strauss, Thomas B. Smith
- 1997 M.A., Ecology and Systematics, San Francisco State University  
Major professor: Thomas B. Smith  
Committee Members: V. Thomas Parker, Eric J. Routman
- 1989 A.B. *summa cum laude*, English, Dartmouth College  
minor in Environmental Studies

## OTHER PROFESSIONAL EXPERIENCE – ENVIRONMENTAL CONSULTING

- 1997-1998 Staff Scientist, Stillwater Ecosystem, Watershed and Riverine Sciences  
Berkeley, CA
- 1989-1992 Scientist I, EA Engineering, Science, and Technology, Inc.  
Lafayette, CA

## RESEARCH SUPPORT

- 2018-2023 \$482,500 National Science Foundation DEB-1754468 (co-PI; PI Tom Miller; \$179K to UNM). *LTREB: Host-microbe symbiosis through the lens of stochastic demography.*
- 2018-2024 \$6,432,997 National Science Foundation DEB-1655499 (non-signatory co-PI; PI Jenn Rudgers). *LTREB: Sevilleta (SEV) site: climate variability at dryland ecotones.*
- 2013-2018 \$690,237 National Science Foundation DEB 1257965 (PI; co-PI Loren Rieseberg). *Repeatability and genetic architecture of adaptive introgression: a long-term experimental evolution study in sunflowers.*
- 2012-2015 \$310,822 National Science Foundation DEB 1146203 (co-PI; PI Stephen Hovick). *Effects of population genetic diversity on colonization success.*
- 2007-2012 \$577,527 National Science Foundation DEB 0716868 (PI; co-PI Loren Rieseberg). *Long-term natural selection and adaptive introgression in weedy sunflowers.*
- 2010-2012 \$14,982 National Science Foundation Dissertation Improvement Grant DEB 1011661 (co-PI Jeffrey Ahern). *DISSERTATION RESEARCH: Evolutionary ecology of defensive chemical variation in Xanthium strumarium*
- 2012 \$7,500 National Science Foundation REU supplement to DEB 0716868
- 2011 \$7,500 National Science Foundation REU supplement to DEB 0716868
- 2009-2010 \$50,000 Shell Center for Sustainability (co-PI Lesley Campbell). *Response of native plant mating systems to global change*
- 2009-2010 \$26,608 Hamill Innovation Grant, Rice Institute of Biosciences and Bioengineering AND Rice Faculty Initiatives Fund (co-PI Michael Covington). *Seed-seed signaling in Arabidopsis thaliana: evolutionary ecology and molecular mechanisms of a newly-discovered process*
- 2010 \$7,000 National Science Foundation REU supplement to DEB 0716868
- 2009 \$7,475 National Science Foundation REU supplement to DEB 0716868

2007-2009	\$20,000	National Geographic Society 8237-07 (PI; co-PIs Amy Savage, Jennifer Rudgers). <i>Yellow Crazy Ant invasion of the Samoan Archipelago: Do novel mutualisms amplify the ecological impacts?</i>
2005	\$50,000	Genomics Education Matching Fund Program, Licor Corporation (co-PI with Michael Kohn)
2003-2005	\$89,200	USDA NRI Postdoctoral Fellowship
2001	\$5,000	ARCS Foundation Scholarship
1999-2001	\$8,800	UC Davis competitive intramural research grants
1998-2001	\$5,000	Center for Tropical Research Grant
1997-2000	\$66,000	EPA STAR Fellowship
1996	\$5,000	NSF Graduate Research Traineeship
1994-1996	\$43,000	NSF Graduate Research Fellowship
1994	\$24,000	Wildlife Conservation Society (co-PI with T. B. Smith, V. T. Parker, M. Fogiel)

#### **OTHER SUPPORT**

2007            Brown Foundation Teaching Grant, \$4,977 (co-PI with Jennifer Rudgers)

#### **MANUSCRIPTS IN REVIEW** (\*Coauthor associated with my lab; †Undergraduate student)

67. Owens, G.L., M. Todesco, N. Bercovich, J. S. Legare, N. Mitchell, K. D. Whitney, L. H. Riesberg. *In review*. An unexpected donor in the adaptive introgression candidate *Helianthus annuus* subsp. *texanus*.

66. Cumberland\*, C. L., T. L. Griswold, N. Mitchell\*, K. W. Wright, and K. D. Whitney. *In review*. Declines in abundance and changes in composition of southwestern US sunflower pollinators resurveyed after 40 years.

65. Mitchell\*, N. and K. D. Whitney. *In review*. Hybridization and diversification are positively correlated across vascular plant families. <https://doi.org/10.1101/724377>

#### **PUBLICATIONS, PEER-REVIEWED** (\*Coauthor associated with my lab; †Undergraduate student).

64. Mitchell\*, N., S. A. Chamberlain\*, K. D. Whitney. *In press*. Proximity to crop relatives determines some patterns of natural selection in a wild sunflower. *Evolutionary Applications*.

63. Thompson, K. A., M. Urquhart-Cronish, K. D. Whitney, L. H. Rieseberg, and D. Schluter. 2021. Patterns, predictors, and consequences of dominance in hybrids. *American Naturalist* 197: E72-E88. <https://www.journals.uchicago.edu/doi/10.1086/712603>

62. Whitney, K. D., A. K. Smith\*†, C. F. Williams, and T. E. White. 2020. Birds perceive more

- intraspecific color variation in bird-pollinated than bee-pollinated flowers. *Frontiers in Plant Science* 11: 1806. <https://doi.org/10.3389/fpls.2020.590347>
61. Kazenel\*, M. R., K. W. Wright, J. Bettinelli, T. L. Griswold, K. D. Whitney, J. A. Rudgers. 2020. Predicting changes in bee assemblages following state transitions at North American dryland ecotones. *Scientific Reports* 10: 708. <https://www.nature.com/articles/s41598-020-57553-2>
60. Mitchell\*, N., L. G. Campbell\*, J. R. Ahern\*, K. C. Paine\*, A. B. Giroldo, and K. D. Whitney. 2019. Correlates of hybridization in plants. *Evolution Letters* 3(6): 570-585. <https://onlinelibrary.wiley.com/doi/full/10.1002/evl3.146>
59. Rudgers, J. A., A. Hallmark, S. R. Baker, L. Baur, K. M. Hall, M. E. Litvak, E. H. Muldavin, W. T. Pockman, K. D. Whitney. 2019. Sensitivity of dryland plant allometry to climate. *Functional Ecology* 33(12): 2290-2303. <https://besjournals.onlinelibrary.wiley.com/doi/10.1111/1365-2435.13463>
58. Singer, M. S., R. E. Clark, E. R. Johnson, I. H. Lichter-Marck, K. A. Mooney, K. D. Whitney. 2019. Dietary specialization is conditionally associated with increased ant predation risk in a temperate forest caterpillar community. *Ecology and Evolution* 9(21): 12099-12112. <https://onlinelibrary.wiley.com/doi/10.1002/ece3.5662>
57. Griffin-Nolan, R., D. Blumenthal, S. Collins, T. Farkas\*, A. Hoffman, K. Mueller, T. Ocheltree, M. Smith, K. Whitney, A. Knapp. 2019. Shifts in plant functional composition following long-term drought in grasslands. *Journal of Ecology* 107: 2133–2148. <https://doi.org/10.1111/1365-2745.13252>
56. Siepielski, A. M., M. B. Morrissey, S. M. Carlson, J. G. Kingsolver, K. D. Whitney, and L. E. B. Kruuk. 2019. No evidence that warmer temperatures are associated with selection for smaller body sizes. *Proceedings of the Royal Society B* 286: 20191332. <https://doi.org/10.1098/rspb.2019.1332>
55. Paine\*, K. C., T. E. White and K. D. Whitney. 2019. Intraspecific floral color variation as perceived by pollinators and non-pollinators: evidence for pollinator-imposed constraints? *Evolutionary Ecology* 33: 461-479. <https://doi.org/10.1007/s10682-019-09991-2>
54. Hovick\*, S.M., and K. D. Whitney. 2019. Propagule pressure and genetic diversity enhance colonization by a ruderal species: a multi-generation field experiment. *Ecological Monographs* 89(3):e01368. (22 pages) <https://doi.org/10.1002/ecm.1368>
53. Mitchell\*, N., G. L. Owens, S. M. Hovick\*, L. H. Rieseberg, and K. D. Whitney. 2019. Hybridization speeds adaptive evolution in an eight-year field experiment. *Scientific Reports* 9: 6746. <https://doi.org/10.1038/s41598-019-43119-4>
52. Whitney, K. D., J. Mudge, D. O. Natvig, A. Sundararajan, W. Pockman, J. Bell, S. Collins, J. A. Rudgers. 2019. Experimental drought reduces genetic diversity in the grassland foundation species *Bouteloua eriopoda*. *Oecologia* 189: 1107–1120. <https://doi.org/10.1007/s00442-019-04371-7>
51. Qiu, F., E. Baack, K. Whitney, D. Bock, H. Tetreault, L. Rieseberg, M. Ungerer. 2019. Phylogenetic trends and environmental correlates of nuclear genome size variation in *Helianthus* sunflowers. *New Phytologist* 221: 1609-1618. <https://doi.org/10.1111/nph.15465>
50. Mitchell\*, N. and K. D. Whitney. 2018. Can plants evolve to meet a changing climate? The potential of field experimental evolution studies. *American Journal of Botany* 105: 1613–1616. <https://doi.org/10.1002/ajb2.1170>

49. Gray\*†, M., M. Stansberry\*†, J. S. Lynn\*, C. F. Williams, T. E. White and K. D. Whitney. 2018. Consistent shifts in pollinator-relevant floral coloration along a Rocky Mountain elevation gradient. *Journal of Ecology* 106: 1910-1924. <https://doi.org/10.1111/1365-2745.12948>
48. Martinez\*†, M. A., E. J. Baack, S. M. Hovick\*, and K. D. Whitney. 2018. A reassessment of the genome size – invasiveness relationship in reed canarygrass (*Phalaris arundinacea*). *Annals of Botany* 121: 1309-1318. <https://doi.org/10.1093/aob/mcy028>
47. Gundel, P. E., J. A. Rudgers & K. D. Whitney. 2017. Vertically transmitted symbionts as mechanisms of transgenerational effects. *American Journal of Botany* 104:787-792.
46. Campbell\*, L. G., L. P. Albert\*, E. D. Gumuser\*†, and K. D. Whitney. 2016. Water-induced stress influences the relative investment in cleistogamous and chasmogamous flowers of an invasive grass, *Microstegium vimineum* (Poaceae). *Plant Ecology & Diversity* 9: 339–348.
45. Bock, D. G., C. Caseys, R. D. Cousens, M. Hahn, S. M. Heredia, S. Hübner, K. G. Turner, K. D. Whitney, and L. H. Rieseberg. 2015. What we still do not know about invasion genetics. *Molecular Ecology* 24: 2277-2297.
44. Whitney, K. D., K. W. Broman, N. C. Kane, S. M. Hovick\*, R. A. Randell, and L. H. Rieseberg. 2015. QTL mapping identifies candidate alleles involved in adaptive introgression and range expansion in a wild sunflower. *Molecular Ecology* 24: 2194-2211.
43. Whitney, K. D., and E. Gering. 2015. Five decades of invasion genetics. *New Phytologist* 205: 472-475.
42. Hovick\*, S.M., and K. D. Whitney. 2014. Hybridization is associated with increased fecundity and size in invasive taxa: meta-analytic support for the hybridization-invasion hypothesis. *Ecology Letters* 17: 1464–1477.
41. Singer M. S., I. H. Lichter-Marck, T. E. Farkas, E. Aaron, K. D. Whitney, and K. A. Mooney. 2014. Herbivore diet breadth mediates the cascading effects of carnivores in food webs. *Proceedings of the National Academy of Sciences* 111: 9521-9526.
40. Lamperti, A. M., A. R. French, E. S. Dierenfeld, M. K. Fogiel, K. D. Whitney, D. J. Stauffer, K. M. Holbrook, B. D. Hardesty, C. J. Clark, J. R. Poulsen, B. Wang, T. B. Smith, V. T. Parker. 2014. Diet selection is related to breeding status in two frugivorous hornbill species of Central Africa. *Journal of Tropical Ecology* 30: 273-290.
39. Rudgers, J. A., S. N. Kivlin, K. D. Whitney, M. V. Price, N. M. Waser, J. Harte. 2014. Responses of high-altitude graminoids and soil fungi to 20 years of experimental warming. *Ecology* 95:1918–1928.
38. Ahern\*, J. R. and K. D. Whitney. 2014. Sesquiterpene lactone stereochemistry influences herbivore resistance and plant fitness in the field. *Annals of Botany* 113: 731-740.
37. Ahern\*, J. R. and K. D. Whitney. 2014. Stereochemistry affects sesquiterpene lactone bioactivity against an herbivorous grasshopper. *Chemoecology* 24: 35-39.

36. Chamberlain\*, S. A., K. D. Whitney, and J.A. Rudgers. 2013. Proximity to agriculture alters abundance and community composition of wild sunflower mutualists and antagonists. *Ecosphere* 4(8): 96.
35. Laurance W. F., D. C. Useche, J. Rendeiro, ... K. Whitney, et al. 2012. Averting biodiversity collapse in tropical forest protected areas. *Nature* 489: 290-294.
34. Hovick\*, S.M., E. D. Gumuser\*†, K. D. Whitney. 2012. Community dominance patterns, not colonizer genetic diversity, drive colonization success in a test with grassland species. *Plant Ecology* 213: 1365-1380.
33. Chamberlain\*, S., S. Hovick\*, C. Dibble, B. Van Allen, B. Maitner, J. Ahern\*, L. Bell-Dereske, N. Rasmussen, J. Carillo, M. Meza-Lopez, C. Roy, E. Siemann, M. Lajeunesse and K. D. Whitney. 2012. Does phylogeny matter? Assessing the impact of phylogenetic information in ecological meta-analysis. *Ecology Letters* 15: 627–636.
32. Hovick\*, S. M., L. G. Campbell\*, A. A. Snow, and K. D. Whitney. 2012. Hybridization alters early life-history traits and increases plant colonization success in a novel region. *American Naturalist* 179: 192-203.
31. Maitner, B. S., J. A. Rudgers, A. E. Dunham, and K. D. Whitney. 2012. Patterns of bird invasion are consistent with environmental filtering. *Ecography* 35: 614-623.
30. Savage\*, A. M., and K. D. Whitney. 2011. Mutualistic, trait-mediated indirect interactions in invasions: a highly invasive ant has unique behavioral responses to plant nectar. *Ecosphere* 2(9):106.
29. Albert\*, L. P., L. G. Campbell\*, and K. D. Whitney. 2011. Beyond simple reproductive assurance: cleistogamy allows adaptive plastic responses to pollen limitation. *International Journal of Plant Sciences* 172:862-869.
28. Ness, J. H., E. J. Rollinson†, and K. D. Whitney. 2011. Phylogenetic distance can predict susceptibility to attack by natural enemies. *Oikos* 120:1327-1334.
27. Whitney, K. D., B. Boussau, E. J. Baack, and T. Garland Jr. 2011. Drift and genome complexity revisited. *PLoS Genetics* 7(6): e1002092
26. Savage\*, A. M., S. D. Johnson\*†, K. D. Whitney, and J. A. Rudgers. 2011. Do invasive ants respond more strongly to carbohydrate availability than co-occurring non-invasive ants? A test along an active *Anoplolepis gracilipes* invasion front. *Austral Ecology* 36: 310-319.
25. Craig\*†, S., S. Kannadan\*†, S. L. Flory, E. K. Seifert, K. D. Whitney, and J. A. Rudgers. 2011. Potential for endophyte symbiosis to increase resistance of the native grass *Poa alsodes* to invasion by the non-native grass *Microstegium vimineum*. *Symbiosis* 53: 17-28.
24. Whitney, K. D. and T. Garland Jr. 2010. Did genetic drift drive increases in genome complexity? *PLoS Genetics* 6(8): e1001080.
23. Whitney, K. D., J. R. Ahern\*, L. G. Campbell\*, L. P. Albert\*, and M. S. King\*†. 2010. Patterns of hybridization in plants. *Perspectives in Plant Ecology, Evolution and Systematics* 12: 175-182.

22. Whitney, K. D., R. A. Randell, and L. H. Rieseberg. 2010. Adaptive introgression of abiotic tolerance traits in the sunflower *Helianthus annuus*. *New Phytologist* 187: 230-239.
21. Whitney, K. D., E. J. Baack, J. L. Hamrick, M. J. W. Godt, B. C. Barringer, M. D. Bennett, C. G. Eckert, C. Goodwillie, S. Kalisz, I. J. Leitch, and J. Ross-Ibarra. 2010. A role for nonadaptive processes in plant genome size evolution? *Evolution* 64: 2097-2109.
20. Scascitelli, M., K. D. Whitney, R. A. Randell, M. King, C. A. Buerkle, and L. H. Rieseberg. 2010. Genome scan of hybridizing sunflowers from Texas (*Helianthus annuus* and *H. debilis*) reveals asymmetric patterns of introgression and small islands of genomic differentiation. *Molecular Ecology* 19:521-541.
19. Crawford\*, K. M., and K. D. Whitney. 2010. Population genetic diversity influences colonization success. *Molecular Ecology* 19: 1253–1263.
18. Whitney K.D., Rudgers J.A. 2009. Constraints on plant signals and rewards to multiple mutualists? *Plant Signaling & Behavior* 4(9): 801-804.
17. Savage\* A.M., J.A. Rudgers & K.D. Whitney. 2009. Elevated dominance of extrafloral nectary-bearing plants is associated with increased abundances of an invasive ant and reduced native ant richness. *Diversity and Distributions* 15: 751-761.
16. Whitney, K.D. 2009. Comparative evolution of flower and fruit morphology. *Proceedings of the Royal Society B-Biological Sciences* 276:2941-2947.
15. Whitney, K.D., J.R. Ahern\*, and L.G. Campbell\*. 2009. Hybridization-prone plant families do not generate more invasive species. *Biological Invasions* 11:1205-1215.
14. Whitney, K.D. & C.A. Gabler. 2008. Rapid evolution in introduced species, ‘invasive traits’ and recipient communities: challenges for predicting invasive potential. *Diversity and Distributions* 14: 569–580.
13. Rieseberg, L. H., S. C. Kim, R. A. Randell, K. D. Whitney, B. R. Gross, C. Lexer, and K. Clay. 2007. Hybridization and the colonization of novel habitats by annual sunflowers. *Genetica* 129: 149-165.
12. Rudgers, J.A. & K.D. Whitney. 2006. Interactions between insect herbivores and a plant architectural dimorphism. *Journal of Ecology* 94: 1249-1260.
11. Whitney, K. D., R. A. Randell, and L. H. Rieseberg. 2006. Adaptive introgression of herbivore resistance traits in the weedy sunflower *Helianthus annuus*. *American Naturalist* 167(6): 794-807.
10. Whitney, K. D. 2005. Linking frugivores to the dynamics of a fruit color polymorphism. *American Journal of Botany* 92: 859-867.
9. Baack, E. J., K. D. Whitney, and L. H. Rieseberg. 2005. Hybridization and genome size evolution: timing and magnitude of nuclear DNA content increases in *Helianthus* homoploid hybrid species. *New Phytologist* 167:623-630.
8. Whitney, K. D. 2005. Evidence for simple genetic control of a fruit colour polymorphism in *Acacia ligulata*. *Australian Journal of Botany* 53: 363-366.

7. Whitney, K. D., and M. L. Stanton. 2004. Insect seed predators as novel agents of selection on fruit color. *Ecology* 85: 2153-2160.
6. Whitney, K. D. 2004. Experimental evidence that both parties benefit in a facultative plant-spider mutualism. *Ecology* 85:1642-1650.
5. Whitney, K. D., and C. E. Lister. 2004. Fruit colour polymorphism in *Acacia ligulata*: seed and seedling performance, clinal patterns, and chemical variation. *Evolutionary Ecology* 18: 165-186.
4. Whitney, K. D. 2002. Dispersal for distance? *Acacia ligulata* seeds and meat ants *Iridomyrmex viridiaeneus*. *Austral Ecology* 27: 589-595.
3. Whitney, K. D., and T. B. Smith. 1998. Habitat use and resource tracking by African *Ceratogymna* hornbills: implications for seed dispersal and forest conservation. *Animal Conservation* 1: 107-117.
2. Whitney, K. D., M. K. Fogiel, A. M. Lamperti, K. M. Holbrook, D. M. Stauffer, B. D. Hardesty, V. T. Parker, and T. B. Smith. 1998. Seed dispersal by *Ceratogymna* hornbills in the Dja Reserve, Cameroon. *Journal of Tropical Ecology* 14: 351-371.
1. Smith, T. B., K. K. Rasmussen, K. D. Whitney, and M. K. Fogiel. 1996. A preliminary survey of birds from the Lac Lobeke Reserve, south-eastern Cameroon. *Bird Conservation International* 6: 167-174.

#### **HIGHLIGHTS OF MY PUBLISHED WORK**

Singer et al. 2014:

- “Diverse diet makes caterpillars more likely target for birds,” *Los Angeles Times*, 16 June 2014
- “Picky Eaters Are Less Likely to Be Eaten,” *Discover Magazine Blog*, 17 June 2014
- “Variety in a Caterpillar's Diet Could Spell Its Doom,” *Audubon Magazine Blog*, 16 June 2014

Laurance et al. 2012:

- *Faculty of 1000 Biology* 'Recommended'. <http://f1000.com/prime/717956187>

Whitney & Garland 2010:

- Research Highlights: "Ginormous genomes." *Nature* 467(7312): 135.
- *PLoS Genetics* "Most Viewed" article 8/27/10 - 10/7/10
- "Not the origin of genome complexity." *Discover Magazine, Gene Expression Blog*, 27 August 2010. <http://blogs.discovermagazine.com/gnxp/2010/08/not-the-origin-of-genome-complexity/>
- *Faculty of 1000 Biology* 'Must Read'. <http://f1000.com/5141957>

Crawford & Whitney 2010:

- *Faculty of 1000 Biology* 'Recommended'. <http://f1000.com/4675956>
- News and Views: "Population-level traits that affect, and do not affect, invasion success." Sanders, N. J. 2010. *Molecular Ecology* 19: 1079–1081.

Whitney, Randall, Rieseberg 2010:



- Forum: "What's good for you may be good for me: evidence for adaptive introgression of multiple traits in wild sunflower." Vekemans, X. 2010. *New Phytologist* 187: 6-9.

Whitney, Ahern, Campbell 2009:

- *Faculty of 1000 Biology* 'Recommended'. <http://f1000.com/1162698>

### INVITED SEMINARS & PRESENTATIONS

- 2019 “Hybrids: Chances and Challenges of New Genomic Combinations.” Institute of Plant Science and Microbiology, University of Hamburg, Hamburg, Germany (12-14 June)  
University of California San Diego, Department of Biological Sciences (12 April)  
University of California Los Angeles, Department of Biological Sciences (10 April)
- 2018 University of Oklahoma, Department of Microbiology and Plant Biology (19 Oct)
- 2016 Guild of Rocky Mountain Ecologists and Evolutionary Biologists (16 Sept)
- 2015 Michigan State University, VISTAS Program (27 May)  
New Mexico State University (5 Feb)
- 2014 KBS Eminent Ecologists Series, Kellogg Biological Station, Michigan State University (21 May)
- 2013 University of Miami, Dept. of Biology (November)
- 2012 University of New Mexico, Dept. of Biology (April)  
Molecular Ecology 2012, Vienna, Austria (scheduling conflict, declined)  
University of Arizona, Department of Ecology and Evolutionary Biology (5 Mar)
- 2011 University of Houston, Dept. of Biology (12 Oct)
- 2010 University of Richmond (1 Nov)  
Rocky Mountain Biological Lab Seminar Series, Gothic, CO (29 June)
- 2009 10<sup>th</sup> Annual Ecological Integration Symposium, "Resilience from Genes to Ecosystems: Ecological, Evolutionary, and Social Perspectives on Sustainable Conservation", Texas A&M University (March 6).
- 2008 Texas A & M University, Department of Entomology (2 October).  
Rice University, Institute of Biosciences and Bioengineering Symposium (18 June).  
“The Evolutionary Ecology of Plant-animal Interactions: from Genes to Communities.” Spanish Association of Terrestrial Ecology, Mallorca, Spain (April 21-23).
- 2007 “Microevolutionary Change in Human-altered Environments: An International Summit to Translate Science into Policy.” University of California, Los Angeles (February 8-11).  
Texas A & M University, Department of Rangeland Ecology and Management (17 April).
- 2006 Central Texas Ecologists’ Meeting, Austin, TX (18 Nov).  
Botanical Society of America Symposium, “Hybridization as a Stimulus for the Evolution of Invasiveness in Plants.” Chico State University, Chico, CA (2 August).

Trinity University, Dept. of Biology

- 2005 NSF-USDA-EPA Principal Investigators Symposium  
University of Tennessee, Department of Ecology and Evolutionary Biology  
USDA Sunflower Unit, Symposium on Wild *Helianthus*
- 2004 Rice University, Department of Ecology & Evolutionary Biology  
University of Akron, Department of Biology  
Tufts University, C. Orians Lab
- 2003 University of Wyoming, Department of Botany  
University of Pittsburgh, Department of Biology  
Susquehanna University, Department of Biology  
Entomological Society of America Symposium, “Stable Isotopes in Basic and Applied  
Entomology”  
University of Toronto, Departments of Botany and Zoology
- 2001 University of Arizona, J. Bronstein Lab
- 1998 University of Queensland, Centre for Conservation Biology

#### **PROFESSIONAL MEETING ABSTRACTS**

- Rudgers, J., K. Whitney, J. Lau, L. Kleynhans, S. Frey, A. Pringle, and L. van Diepen. Experimental evolution in the wild: The power of LTER experiments for understanding evolution. Ecological Society of America, Annual Meeting (Virtual), Aug 2020.
- Kazenel, M. R., K. W. Wright, T. L. Griswold, K. D. Whitney, J. A. Rudgers. Body size-mediated responses to climate change in a desert bee assemblage. Ecological Society of America, Annual Meeting (Virtual), Aug 2020.
- Mitchell, N., H. Luu, L. H. Rieseberg, K. D. Whitney. Repeatability of hybrid evolution across environmental contexts in Texas sunflowers (*Helianthus*). Ecological Society of America, Annual Meeting (Virtual), Aug 2020.
- Gerstner, B., H. J. Wearing, K. D. Whitney. The paradox of polyploidy: is variation in unreduced gamete formation the key missing factor? American Society of Naturalists Meeting, Asilomar, California, Jan 2020.
- Miller, T. E.X., Fowler J. C., K. D. Whitney, J. A. Rudgers. Host-symbiont interactions through the lens of stochastic demography: variance buffering as a form of mutualism. American Society of Naturalists Meeting, Asilomar, California, Jan 2020.
- Thompson, K. A., M. Urquhart-Cronish, K. D. Whitney, L. H. Rieseberg, and D. Schluter. Patterns, predictors, and consequences of dominance in F<sub>1</sub> hybrids. American Society of Naturalists Meeting, Asilomar, California, Jan 2020.
- Whitney, K.D. Can patterns of flower color variation identify the pollinators that matter? Testing for pollinator-imposed constraints in bee- and hummingbird-pollinated flowers. Guild of Rocky Mountain Ecologists and Evolutionary Biologists Meeting, Gothic, Colorado, September 2019.
- Kazenel, M. R., K. W. Wright, J. Bettinelli, T. L. Griswold, K. D. Whitney, J. A. Rudgers. Native bees exhibit species- and ecosystem-specific changes in abundance with aridity. Guild of Rocky Mountain Ecologists and Evolutionary Biologists Meeting, Gothic, Colorado, September 2019.
- Owens, G.L., L.H. Rieseberg, and K.D. Whitney. An experimental test of adaptive introgression in Texas

- sunflowers. Evolution 2018, Montpellier, France, August 20th 2018.
- Mitchell, N., L.H. Rieseberg, G.L. Owens, and K.D. Whitney. Hybridization speeds adaptation in Texas sunflowers: insights from field experimental evolution. Botany 2018, Rochester, Minnesota, July 2018.
- Owens, G.L., L.H. Rieseberg, and K.D. Whitney. An experimental test of adaptive introgression in Texas sunflowers. Ecology and Evolution Retreat 2017, Squamish BC Canada, November 4th 2017.
- Hovick S.M. and K.D. Whitney. Genetic diversity mechanisms underlying colonization success in a weedy plant. Ecological Society of America, Portland, Oregon, Aug 2017.
- Whitney K.D., C. Evans-Peck, P. Agosti, and J. Rigby. Floral visitation is predicted by plant traits, neighborhood effects, and phylogenetic isolation. American Society of Naturalists, Asilomar, California, Jan 2016.
- Weston, Anastasia, Hannah Tetreault, Mark Ungerer, Megan Martinez, Kenneth Whitney, Eric Baack. Genome Size Variation in the Wild Sunflower Genus *Helianthus*. Ecological Genomics Symposium, Manhattan, Kansas, November 2015. <http://ecogen.k-state.edu/symposia/2015.html>
- Hovick S.M. and K.D. Whitney. When does increased population genetic diversity enhance colonization success? Ecological Society of America, Portland, Oregon, Aug 2015.
- Whitney K.D. and S. M. Hovick. Are hybridization and genetic diversity drivers of colonization success? Invasion Genetics: The Baker and Stebbins Legacy. Asilomar, California, Aug 2014.
- Hovick S. M. and K.D. Whitney. Hybridization increases fecundity and size in invasive taxa: meta-analytic support for the hybridization-invasion hypothesis. Society for the Study of Evolution, American Society of Naturalists & Society of Systematic Biologists; Raleigh, NC, Jun 2014.
- Hovick S. M. and K.D. Whitney. Simply a numbers game? Disentangling the effects of founder population size and population genetic diversity on colonization success. American Society of Naturalists, Asilomar, California, Jan 2014.
- Whitney K. D., L. H. Rieseberg. Identifying key alleles and traits in adaptive introgression events: insights from experimental evolution in sunflowers. American Society of Naturalists, Asilomar, California, Jan 2014.
- Sneck M., K. D. Whitney, and L. G. Campbell. Evolutionary response to global change: an experimental test of the effect of altered precipitation on hybridization rates in sunflower (*Helianthus*). Society for The Study of Evolution, Snowbird, Utah 2013.
- Hovick S.M., L.H. Rieseberg and K.D. Whitney. Replaying the clock in hybrid evolution: A field experimental evolution study using sunflowers (*Helianthus*). Ecological Society of America, Portland, Oregon, 2012.
- Campbell L. G., K. L. Mercer, C. Chaplin, and K. D. Whitney. Do hybridization rates vary with water availability? First Joint Congress on Evolutionary Biology, Ottawa, Canada 2012.
- Gumuser E.D., S.M. Hovick and K.D. Whitney. Importance of functional group dominance and colonizer genetic diversity on invasive success. Ecological Society of America, Austin TX 2011.
- Hovick S.M., L.G. Campbell, A.A. Snow and K.D. Whitney. Hybridization in wild radish (*Raphanus raphinistrum*) alters early life-history traits and increases colonization success in a novel region. Ecological Society of America, Austin TX 2011.
- Savage, A.M., K. D. Whitney and J. A. Rudgers. Can novel mutualisms with native species modify the community-wide consequences of ant invasions? A test using the *Anoplolepis gracilipes* invasion of the Samoan Archipelago. Ecological Society of America, Austin TX 2011.
- Sloat, L.L., C.A. Lamanna, G. Aldridge, B.J. Enquist, A.N. Henderson, D.W. Inouye, M.J. Stansberry, K.D. Whitney, I. Billick. A comprehensive functional trait database for the plants of the Rocky Mountain Biological Laboratory. Ecological Society of America, Austin TX 2011.
- Ahern, J. R., and K. D. Whitney. Ecological factors associated with the maintenance of a defensive chemical polymorphism in *Xanthium strumarium*. Society for The Study of Evolution, Norman, OK 2011.
- Ahern, J. R., and K. D. Whitney. Factors associated with the maintenance of a defensive chemical polymorphism in *Xanthium strumarium*. Ecological Society of America, Austin TX 2011.

- Chamberlain, S. A. and K. D. Whitney. Mutualist and antagonist arthropod communities of native plants are influenced by proximity to agricultural crops. Ecological Society of America, Austin TX 2011.
- Campbell, L.G., K. Mercer and K. D. Whitney. Do hybridization rates vary with water availability? Canadian Society for Evolution and Ecology, May 2011.
- Ness, J.H., E.J. Rollinson, K. D. Whitney. Phylogenetic community structure influences among-species differences in susceptibility to attack by natural enemies. Ecological Society of America, Pittsburgh, PA 2010.
- Maitner, B.S., A. E. Dunham, J. A. Rudgers, K. D. Whitney. Phylogenetic community structure is correlated with the success of invasive avifauna. Ecological Society of America, Pittsburgh, PA 2010.
- Ahern, J. R., Whitney, K. D. Effects of sesquiterpene lactone stereochemistry on herbivore resistance in *Xanthium strumarium*. Gordon Research Conference: Plant-Herbivore Interactions. Galveston, TX 2010.
- Whitney, K. D., J. H. Ness. Phylogenetic community structure influences herbivore damage. Gordon Research Conference: Plant-Herbivore Interactions. Galveston, TX 2010.
- Savage, A. M., K. D. Whitney, and J. A. Rudgers. The invasive ant *Anoplolepis gracilipes* modifies the community-wide impacts of a facultative mutualism. Sigma Xi, the Scientific Research Society Annual Conference, The Woodlands, TX. November 2009.
- Whitney, K. D., J. R. Ahern, L. G. Campbell and L. P. Albert. Explaining hybridization propensity in plants. Ecological Society of America, Albuquerque, NM 2009.
- Ahern, J.R. & K. D. Whitney. Sesquiterpene lactone stereochemistry determines herbivore resistance in *Xanthium strumarium* (Asteraceae). Ecological Society of America, Albuquerque, NM 2009.
- Savage, A. M. , J. A. Rudgers and K.D. Whitney. Community-level consequences of an ant-plant mutualism change when an invasive ant dominates local ant assemblages. Southeast Ecology and Evolution Conference, Gainesville, FL. March 2009.
- Whitney, K. D., J. R. Ahern, and L. G. Campbell. Hybridization-prone plant families do not generate more invasive species. Society for the Study of Evolution, Minneapolis, MN. 2008.
- Savage, A. M., J. A. Rudgers, and K. D. Whitney. Yellow crazy ant invasion of the Samoan Archipelago: Can novel mutualisms facilitate community-wide impacts? Southeast Ecology and Evolution Conference, Tallahassee, FL. March 2008.
- Crawford, K. M., P. Thompson, and K. D. Whitney. Genetic diversity and early colonization success: Testing hypotheses with a model system. Ecological Society of America, San Jose, CA. 2007.
- Whitney, K. D., R. A. Randell, L. H. Rieseberg. Adaptive introgression of herbivore-resistance traits and range expansion in sunflowers. Society for the Study of Evolution, Stony Brook, NY. 2006.
- Whitney, K. D., R. A. Randell, C. Orians, L. H. Rieseberg. Introgression of herbivore resistance traits and the evolution of invasiveness in sunflowers (*Helianthus*). Gordon Conference on Plant-Herbivore Interaction. Ventura, CA. 2004.
- Whitney, K. D., R. A. Randell, C. Orians, L. H. Rieseberg. Introgression of herbivore resistance traits and the evolution of invasiveness in sunflowers (*Helianthus*). Ecological Society of America, Portland, OR. 2004.
- Whitney, K. D. Experimental evidence that both parties benefit in an Australian plant-spider mutualism. Ecological Society of America, Tucson, AZ. 2002.
- Whitney, K. D. Seed dispersers, predators, and the maintenance of genetic variation: fruit color polymorphism in *Acacia ligulata*. Ecological Society of America, Madison, WI. 2001.
- Whitney, K. D. Fruit color polymorphism in *Acacia ligulata*: Are seed dispersers or seed predators key to the riddle? 3<sup>rd</sup> International Symposium on Frugivores and Seed Dispersal, São Pedro, Brazil. 2000.
- Whitney, K. D. Seed dispersers, seed predators, and the maintenance of genetic variation: aril color polymorphism in *Acacia ligulata*. Ecological Society of Australia, Melbourne, Australia. 2000.
- Whitney, K. D. & T. B. Smith. Conservation value of seed dispersal by Hornbills. Earthwatch/UK Tropical Forest Forum conference: African rainforests and the conservation of biodiversity, Limbe,

Cameroon. 1997.

Whitney, K. D. & T. B. Smith. Frugivore visitation, seed removal, and seed deposition at three species of African nutmeg (Myristicaceae). Ecological Society of America, Providence, RI. 1996.

Whitney, K. D. & T. B. Smith. Seasonal variation in diet and habitat use of two large African forest hornbills: implications for forest dynamics. Ecological Society of America, Snowbird, Utah. 1995.

Smyth, A. P. & K. D. Whitney. A comparison of seed dispersal in primary vs. secondary forest for an afro-tropical pioneer species, *Rauwolfia macrocarpa*. Ecological Society of America, Snowbird, Utah. 1995.

Whitney, K. D. & T. B. Smith. Visitation and dispersal of the Myristicaceae by hornbills (Bucerotidae) in an African forest. Association for Tropical Biology, San Diego, CA. 1995.

## **TEACHING EXPERIENCE**

### **University of New Mexico**

*Evolution* (Bio 300), Spring 2019

*Basic Graduate Evolution* (Bio 517), Spring 2013, Spring 2014, Spring 2015, Spring 2016, Spring 2017

*Introductory Biology* (Bio 203), Fall 2014, Fall 2016, Fall 2017

*Evolution and Ecology of Pollination* (Bio 402/502), Spring 2015

*Invasive Species Research* (Biol 419/519), Fall 2015

*Biology of Functional Traits* (Bio 502), Spring 2016, Spring 2017

*Ecological Genetics* (Bio 502)

### **Rice University**

*Plant Diversity* (EBIO 336), Spring 2007, Spring 2008, Spring 2010, Spring 2011, Spring 2012.

*Graduate Core Class in Ecology and Evolutionary Biology* (EBIO 529), Ecological Genetics module, Fall 2006, Fall 2008, Fall 2009, Fall 2010, Fall 2011.

*Topics in Ecology* (EBIO 563): Fall 2008, Fall 2009, Fall 2010.

*Topics in Evolution* (EBIO 561): Spring 2006, Spring 2007.

## **HONORS AND AWARDS**

- 2021 Nominee, Outstanding Teacher of the Year award, UNM
- 2014 KBS Eminent Ecologist, Kellogg Biological Station, Michigan State University
- 2012 Finalist, Phi Beta Kappa Teaching Prize, Rice University
- 2007 Distinguished Associate Award, Lovett College, Rice University
- 2001 Phi Sigma, University of California at Davis Chapter
- 1997 Graduate Student Award for Distinguished Achievement in Biology, SFSU
- 1989 High Honors in the Major, Dartmouth College
- 1988 Phi Beta Kappa, Dartmouth College Chapter
- 1988 Presidential Scholar, Dartmouth College
- 1988 Ralston English Prize, Dartmouth College

## **POSTDOCTORAL FELLOW SUPERVISION**

	<u>Dates</u>	<u>Current Position</u>
Dr. Nora Mitchell	May 2017 – Aug 2019	Assistant Professor, Dept. of Biology, University of Wisconsin, Eau Claire

Dr. Timothy Farkas	July 2017 – July 2018	Data Scientist, RS21
Dr. Stephen Hovick	May 2010 – July 2013	Assistant Professor, Dept. of Evolution, Ecology, and Organismal Biology, The Ohio State University
Dr. Lesley Campbell	January 2008 - July 2010	Associate Professor, Dept. of Chemistry and Biology, Ryerson University, Toronto

### **GRADUATE STUDENT SUPERVISION**

	<u>Status</u>	<u>Co-supervisor</u>	<u>Position following tenure in my lab:</u>
Benjamin Turnley	M. S. in progress		
Maya Allen	Ph.D. in progress		
Melanie Kazenel	Ph.D. in progress	J. Rudgers	
Benjamin Gerstner	Ph.D. in progress		
Catherine Cumberland	Ph.D. 2019		
Kellen Paine	M.S. 2018		
Michelle Sneck	M.A. 2012		Ph.D. program with Tom Miller, Rice University
Scott Chamberlain	Ph.D. 2012	J. Rudgers	Postdoc with Elizabeth Elle, Simon Fraser University
Jeffrey Ahern	Ph.D. 2012		Postdoc with Juha-Pekka Salminen, University of Turku, Finland
Amy Savage	Ph.D. 2011	J. Rudgers	Postdoc with Rob Dunn, North Carolina State University
Autumn Hardin*	Ph.D. 2008		Adjunct Faculty, Lone Star College, Houston, Texas
Amaris Swann*	Ph.D. 2007		Program Manager, UNM Sevilleta Field Station, University of New Mexico

\*research conducted in L. Meffert Lab

### **M.S./PH.D. THESIS COMMITTEES (U. S.)**

Michelle Afkhami (Rice EEB)  
 Lara Appleby (University of Houston)  
 Kayce Bell (UNM Biology)  
 Julieta Bettinelli (UNM Biology)  
 Alex Cameron (UNM Biology)

Lindsey Kaufman (UNM Biology)  
 Jennie Kuzdzal (Rice EEB)  
 John Liu (Rice Biochem & Cell Biol)  
 Joshua Lynn (UNM Biology)  
 Brian Maitner (Rice EEB)

Juli Carillo (Rice EEB)  
 Kerri Crawford (Rice EEB)  
 Sarah Christensen (Rice Biochem & Cell Biol)  
 Juan Diaz (Rice EEB)  
 Christopher Dibble (Rice EEB)  
 Diana Dugas (Rice Biochem & Cell Biol)  
 Danielle Goodspeed (Rice Biochem & Cell Biol)  
 Joseph Hinton (Rice EEB)  
 Anthony Kinyo (Rice EEB)

Onza Razafindratsima (Rice EEB)  
 Christopher Roy (Rice EEB)  
 Ching-Hua Shih (Rice EEB)  
 Laurie Stevison (Rice EEB)  
 Sunni Taylor (Texas State University San Marcos)  
 Benjamin Van Allen (Rice EEB)  
 Kimberly Vincent (Rice EEB)  
 Yichen Zheng (University of Houston)

**PH.D. EXAMINER (INTERNATIONAL)**

Joshua Buru (Queensland University of Technology, Australia, 2016)  
 Cairo Forrest (University of Wollongong, Australia, 2016)

**MENTORING – UNDERGRADUATE INDEPENDENT RESEARCH PROJECTS SINCE 2005 (28)**

	<u>Project</u>	<u>Current Position</u>
Phillip Agosti Charles Ary	NSF REU (2013 at RMBL) Senior thesis (2010)	Biology Graduate Program, U. West Virginia Development Analyst, Clean Line Energy Partners, Houston TX
Carina Baskett	Independent study	NSF Predoctoral Fellow; Ph.D. Program in Ecology, Evolution, and Behavioral Biology, Michigan State University
Jonathan Berg Morgan Black Katherine Boles	NSF REU (2012) Senior thesis (2012) Senior thesis (2008)	Masters Program in Landscape Architecture, University of Virginia
Jeremy Caves	Independent study	NSF Predoctoral Fellow; PhD program in Environmental Earth System Science, Stanford University
Christopher Chen Skylar Craig Anna Dipaola Michelle Gray	NSF REU (2009) Senior thesis (2010) NSF REU (2014 at RMBL) NSF REU (2015 at Sevilleta) NSF REU (2016 at RMBL)	M.D. program, Baylor College of Medicine
Esra Gumuser	Senior thesis (2011)	M.D. program, Texas A&M Health Science Center College of Medicine
Carlisle Evans-Peck Amy Ewbank	NSF REU (2012 at RMBL) NSF REU (2011); Senior thesis (2012)	
Sally Johnson	Senior thesis (2008)	MS Program in Environmental Science and Management, UC Santa Barbara
Matthew King	Independent study	Clinical internship with Dr. Richard Stasney, Methodist Hospital
Darren Li Megan Martinez	NSF REU, Senior thesis (2011) NSF REU (2015), Senior Honors Thesis (2016)	M.D. program, University of Michigan Peace Corps, Tanzania
Lauren Merchant	NSF REU (2014 at Sevilleta)	

Reshmi Paul	Century Scholar	
Fatima Pino	MARC student	
Celeste Ranken	Senior Honors Thesis (2016)	
Justin Rigby	NSF REU (2014 at RMBL)	Ph.D. Program in Ecology and Evolution, University of Chicago
Marcus Stansberry	NSF REU (2009 at RMBL), Senior thesis (2010)	Statistics Graduate Program, Rice University
Emily Stone	NSF REU (2011 at RMBL)	
Paul Thompson	Independent study	University of Pittsburgh School of Nursing Program
Anika Vinze	Independent study	Masters Program in Health Science in Global Disease Epidemiology, Johns Hopkins University
Niki VonHedemann	Senior thesis (2008)	MA Program in Geography, University of Arizona

### **MENTORING – POSTGRADUATE TECHNICIANS**

#### Position following tenure in my lab:

Katlin Beaven	(current)
Dylan Kent	(current)
Jennifer Bell	Ph.D. Program in Biology, University of Saskatchewan
Kendall Beals	M.S. Program in Ecology & Evolutionary Biology, University of Tennessee
Bethany Haley	Ph.D. Program in Urban Biogeoscience and Environmental Health, Boston University
Melanie Kazenel	Ph.D. Program in Biology, University of New Mexico
Loren Albert	Ph.D. Program in Ecology and Evolutionary Biology, University of Arizona
Nancy Falxa-Raymond	M.A. Program in Conservation Biology, Columbia University
Samantha Hammer	M.S. Program in Hydrology, University of Arizona
Megan Rúa	Ph.D. Program in Ecology, University of North Carolina – Chapel Hill
Elizabeth Siefert	Technician, University of Guelph
Carolina Simao	Ph.D. Program in Ecology and Evolutionary Biology, University of Michigan
Prudence Sun	Company member, Suchu Dance

### **JOURNAL EDITORIAL POSITIONS (75+ manuscripts)**

Associate Editor, *Journal of Ecology*, 2011 – 2020  
Ad Hoc Editor, *Ecology*, March 2012



## **SERVICE IN PEER REVIEW – JOURNALS**

<i>American Journal of Botany</i>	<i>Journal of Evolutionary Biology</i>
<i>American Midland Naturalist</i>	<i>Journal of Tropical Ecology</i>
<i>American Naturalist</i>	<i>Molecular Biology and Evolution</i>
<i>Annals of Botany</i>	<i>Molecular Ecology</i>
<i>Australian Journal of Botany</i>	<i>Nature</i>
<i>Biological Invasions</i>	<i>Nature Communications</i>
<i>BMC Evolutionary Biology</i>	<i>Nature Climate Change</i>
<i>Botany</i>	<i>Nature Ecology &amp; Evolution</i>
<i>Conservation Physiology</i>	<i>Naturwissenschaften</i>
<i>Current Biology</i>	<i>New Phytologist</i>
<i>Diversity and Distributions</i>	<i>Oecologia</i>
<i>Ecography</i>	<i>Oikos</i>
<i>Ecological Research</i>	<i>Plant and Soil</i>
<i>Ecology</i>	<i>Plant Biology</i>
<i>Ecology Letters</i>	<i>Plant Biosystems</i>
<i>Ecosphere</i>	<i>Plant Ecology</i>
<i>Evolution</i>	<i>PLoS One</i>
<i>Evolutionary Ecology</i>	<i>Proceedings of the National Academy of Sciences USA</i>
<i>Functional Ecology</i>	<i>Proceedings of the Royal Society B: Biological Sciences</i>
<i>Frontiers in Plant Science</i>	<i>Philosophical Transactions of the Royal Society B:</i>
<i>Genetics</i>	<i>Biological Sciences</i>
<i>Heredity</i>	<i>Science</i>
<i>Invasive Plant Science and Management</i>	<i>Scientific Reports</i>
<i>Journal of Animal Ecology</i>	<i>Trends in Plant Science</i>
<i>Journal of Applied Ecology</i>	<i>Wildlife Research</i>
<i>Journal of Ecology</i>	<i>Zoo Biology</i>

## **SERVICE IN PEER REVIEW – GRANTING AGENCIES**

DFG (German Research Foundation) (1)  
Grant Agency of the Czech Academy of Science (1)  
International Post doc Fellowship Programme in Plant Sciences, Zurich-Basel Plant  
Science Center - ETH Zürich (1)  
National Geographic Society (3)  
NERC, National Environment Research Council, UK (1)  
NSF, Environmental Genomics (2)  
NSF, Evolutionary Ecology (17)  
NSF, Evolutionary Genetics (2)  
NSF, Integrative Organismal Systems (2)  
NSF, International Research Fellowship Program (1)  
NSF, Population and Evolutionary Processes (6)  
NSF, Population and Evolutionary Processes, DDIG (22)  
NYZS/The Wildlife Conservation Society (1)  
Swiss National Science Foundation (SNSF) (1)  
USDA, Biology of Weedy and Invasive Plants Panel (1)

### **SERVICE – GRANTING AGENCY PANELS & RESEARCH LAB COMMITTEES**

NSF, Evolutionary Ecology Panel, April 2015  
NSF, Evolutionary Ecology Panel, Mar 2011  
NSF, Population and Evolutionary Processes Panel, Doctoral Dissertation Improvement Grants, Feb 2008  
RMBL (Rocky Mountain Biological Lab) Research Committee, Chair, 2019-present  
RMBL (Rocky Mountain Biological Lab) Research Committee, 2013-present  
RMBL (Rocky Mountain Biological Lab) Douglass Distinguished Lecturer Committee, 2015-2018  
RMBL (Rocky Mountain Biological Lab) Finance Committee, 2016-2017

### **SOCIETY MEMBERSHIP**

American Society of Naturalists  
Ecological Society of America  
Sigma Xi  
Society for the Study of Evolution

### **SERVICE -- PROFESSIONAL SOCIETIES**

Reviewer, American Society of Naturalists Student Research Awards, 2018, 2019  
Chair, American Society of Naturalists Student Research Awards, 2020  
Judge, Ruth Patrick Student Award, American Society of Naturalists, June 2017  
Judge, Best Postdoctoral Presentation, American Society of Naturalists, January 2016  
Judge, Best Graduate Student Presentation, American Society of Naturalists, January 2014

### **SERVICE & OUTREACH IN SCIENCE EDUCATION**

2016 Science Fair Judge, Corrales Elementary School, 6 Dec 2016  
2015 "Mutualism". Kids nature camp, Rocky Mountain Biological Lab, 10 August 2015  
2014 "Aphids and Ants". Kids nature camp, Rocky Mountain Biological Lab, 8 July 2014  
2013 "Hybridization in Wild Plants." Adult Science Lecture & Field Trip, Rocky Mountain Biological Lab, 1 Aug 2013  
2013 "Aphids and Ants". Kids nature camp, Rocky Mountain Biological Lab, 2 Aug 2013  
2010 Civic Scientist Series. Carnegie Vanguard High School, 13 Oct 2010  
2009 Civic Scientist Series. Carnegie Vanguard High School, 14 Oct 2009  
Civic Scientist Series. Eastwood Academy, 10<sup>th</sup> grade biology class, 24 Feb 2009.  
"Field biology in Africa and Australia"  
2007 Instructor, International Baccalaureate teacher training workshop, Rice University  
2006 Instructor, Advanced Placement teacher training workshop, Rice University  
2006 Instructor, International Baccalaureate teacher training workshop, Rice University