CURRICULUM VITAE: Stacey DeWitt Smith

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EDUCATION

Ph.D. in Botany, University of Wisconsin, Madison, 2006
M.Phil. in Botanical Diversity, Universities of Reading and Birmingham, UK, 2001
B.S. Biology & B.A. Spanish, Virginia Polytechnic Institute & State University, 1999

RESEARCH INTERESTS

evolutionary genetics, comparative methods, floral trait evolution, hybridization, macroevolution, molecular evolution, plant biochemistry, phylogenetics, pollination ecology, systematics

APPOINTMENTS

Associate professor, Department of Ecology and Evolutionary Biology, University of Colorado-Boulder (2017-present)

Assistant professor, Department of Ecology and Evolutionary Biology, University of Colorado-Boulder (Aug. 2013-present)

Assistant professor, School of Biological Sciences, University of Nebraska-Lincoln (2010-2013)

NIH NRSA Postdoctoral Fellow with Dr. Mark Rausher, Duke University (2007-2010)

Center for Genomics Postdoctoral Fellow with Dr. Mark Rausher, Department of Biology, Duke University (2006- 2007)

RESEARCH

PUBLICATIONS

(*graduate student; **undergraduate student, + postdoctoral fellows that I have supervised)

BOOKS

Baum, D. A., & **S. D. Smith**. 2013. *Tree-Thinking: An introduction to phylogenetic biology*. Roberts & Company, Greenwood Village, Colorado.

PEER-REVIEWED ARTICLES

84. Gonzalez Ramirez, I., R. Deanna+ & **S. D. Smith**. 2026. Late Cretaceous origins for major nightshade lineages from total evidence timetree analysis. *Annals of Botany* special issue: "Milestones and trends: the role of the fossil record in reconstructing plant evolution", in press. Preprint: https://doi.org/10.1101/2025.07.22.666174

83. Sierra, G. P.*, A. Orejuela, C. I. Orozco, P. A. Pérez-Mesa, S. Alseekh, R. Fernandez-Hilario, J. L. Fernández-Alonso, **S. D. Smith**, A. R. Fernie & F. Roda. A new arborescent genus of the tribe Datureae (Solanoideae) from Colombia and Peru and its implications for alkaloid evolution in the

Solanaceae family. *Taxon* special issue: "Solanaceae IX: Systematics, Genomics, and Evolution", in press.

82. Deanna, R.+, S. Manchester, E. Martinetto, A. V. Hvalj, E. Sadowski, A. Campos, V. Fernandez, S. Knapp, G. E. Barboza, H. Sauquet, E. Dean, T. Särkinen, F. Chiarini, G. Bernardello & **S. D. Smith**. Seed fossil record of Solanaceae revisited. *Taxon* special issue: "Solanaceae IX: Systematics, Genomics, and Evolution", in press. Preprint: https://doi.org/10.1101/2025.07.03.662944

81. Deanna, R.+, G. Barboza, L. Bohs, S. Dodsworth, L. Giacomin, S. Knapp, A. Orejuela, P. Poczai, T. Särkinen, **S. D. Smith** & R. G. Olmstead. A new phylogeny and phylogenetic classification for Solanaceae. *Taxon* special issue: "Solanaceae IX: Systematics, Genomics, and Evolution", in press. Preprint: https://doi.org/10.1101/2025.07.10.663745

80. Watts, J. L., N. Medina, M. Schreiber, C. Kiel, M. Luján, **S. D. Smith** & E. A. Manzitto-Tripp. 2026. Flowers occupy colorspace extremes: an anthocyanin-derived theoretical floral colorspace approach. *American Journal of Botany* 113: e70149.

79. Sinnott-Armstrong, M. A.+, L. Maier**, **S. D. Smith**. & A. Dellinger+. 2026. Flower clades and fruit clades: trade-offs in color diversification across angiosperms. *American Journal of Botany*, 113: e70146.

78. Wheeler, L. C. +, M. Larter+ & **S. D. Smith**. 2025. MYB regulator of 'colorless' flavonols underlies the evolution of red flowers in *Iochroma* (Solanaceae). *G3* 15: jkaf230

77. Liu, S.* & **S. D. Smith**. 2025. Recruitment of sugar transport and scent volatile genes for prey attraction in the nectar spoon of *Heliamphora tatei*. *Evolution and Development* 27: e70009.

76. Dellinger, A.+, L. Maier**, **S. D. Smith**. & M. A. Sinnott-Armstrong+. Does the abiotic environment influence the distribution of flower and fruit colors. *American Journal of Botany* 9: e70044.

75. Pretz, C.*, E. Au** & **S. D. Smith**. 2025. Decay of self-incompatibility within a lifespan (*Physalis acutifolia*, Solanaceae**).** *Plant Reproduction* 38:7.

74. Harris, J. C.*, T. H. Murphy, E. A. Manzitto-Tripp, N. Medina, Z. Irick, L. D. Estes & **S. D. Smith**. 2024. Phylogenetic relationships of a North American radiation of *Clematis* (Ranunculaceae). *Aliso* 42: 3.

73. Pezzi, P. H.*, L. C. Wheeler+, L. B. Freitas & **S. D. Smith**. 2024. Incomplete lineage sorting and hybridization underlie tree discordance in *Petunia* and related genera (Petunieae, Solanaceae). *Molecular Phylogenetics and Evolution* 198: 108136.

72. Barreto, E., M. A. Boehm, E. Ogutcen, S. Abrahamczyk, M. Kessler, J. Bascompte, A. S. Dellinger +, C. Bello, D. M. Dehling, F. Duchenne, M. Kaehler, L. P. Lagomarsino, L. Lohmann, M. Maglianesi, H. Morlon, N. Muchhala, J. F. Ornelas, M. Perret, N. R. Salinas, **S. D. Smith**, J. C. Vamosi, I. G. Varassin & C. H. Graham. 2024. Coevolution and macroevolution in the plant-hummingbird pollination system. *Biological Reviews* 99: 1831-1847.

71. Schutz, K. T. Melie, **S. D. Smith**, & C. A. Quandt. 2024. Patterns recovered in phylogenomic analysis of *Candida auris* and close relatives implicate broad environmental flexibility in *Candida*/*Clavispora* clade yeasts. *Microbial Genomics* 10: 001233.

70. Dellinger, A. +, L Lagomarsino, F. Michelangeli, S. Dullinger & **S. D. Smith.** 2024. The sequential direct and indirect effects of mountain uplift, climatic niche, and floral trait evolution on diversification dynamics in an Andean plant clade. *Systematic Biology* 73: 594-612.

69. Orejuela, A., B. Villanueva, **S. D. Smith** & R. Deanna+. 2023. A new species of *Iochroma* Benth. (Solanaceae) from the eastern Andes of Colombia. *Phytokeys* 232: 133-144.

68. Liu, S.* & **S. D. Smith**. 2023. Replicated radiations in the South American Marsh Pitcher Plants (Heliamphora) lead to convergent carnivorous trap morphologies. *American Journal of Botany* 110: e16230.

67. Wheeler, L. C.+, A. Dunbar-Wallis, K. Schutz*, & **S. D. Smith**. 2023. Evolutionary walks through flower color space driven by gene expression in *Petunia* and allies (Petunieae). *Proceedings of the Royal Society B* 290: 20230275.

66. Melie, T.*, S. Pirro, A. N. Miller, **S. D. Smith**, K. Schutz* & C. A. Quandt. 2023. Comparative genomics and phylogenomic investigation of the class Geoglossomycetes provide insights into ecological specialization and the systematics of Pezizomycotina. *Mycologia* 115:499-512

65. Deanna R. +, C. Martínez, S. Manchester, P. D. Wilf, A. Campos**, S. Knapp, F. E. Chiarini, G. E. Barboza, G. Bernardello, H. Sauquet, E. Dean, A. Orejuela & **S. D. Smith**. 2023. Fossil berries reveal global radiation of the nightshade family by the early Cenozoic. *New Phytologist* 238: 2685-2697.

64. Pretz, C.*, & **S. D. Smith**. 2023. How does a self-incompatible individual transition to self-compatibility during its lifetime? *American Journal of Botany* 110: e16150.

63. Dellinger, A.+, A. Hamilton*, C. Wessinger, & **S. D. Smith**. 2023. Opposing patterns of altitude-driven pollinator turnover in the tropical and temperate Americas. *American Naturalist* 202:152–165.

62. Tenhumberg, B. T., A. Dellinger, & **S. D. Smith**. 2023. Modeling pollinator and non-pollinator selection on flower color variation. *Journal of Ecology* 111: 746-760.

61. Powell, A. F., J. Zhang, D. A. Hauser, J. Vilela, A. Hu, D. J. Gates*, L. A. Mueller, F. Li, S. R. Strickler, & **S. D. Smith**. 2022. Genome sequence for the blue-flowered Andean shrub *Iochroma cyaneum* reveals extensive discordance across the berry clade of Solanaceae. *The Plant Genome* 15: e20223.

60. Sinnott-Armstrong, M. A.+, Y. Ogawa, G. van de Kerkhof, S. Vignolini, & **S. D. Smith**. 2022. Convergent evolution of disordered lipidic structural color in the fruits of *Lantana strigocamara* (syn. *L. camara* hybrid cultivar). *New Phytologist* 235: 898-906.

59. Wheeler, L. C.+, J. F. Walker, J. Ng, R. Deanna+, A. Dunbar-Wallis*, A. Backes*, P. H. Pezzi*, M. V. Palchetti, A. Monaghan, L. B. Freitas, G. E. Barboza, E. Moyroud & **S. D. Smith**. 2022. Transcription factors evolve faster than their targets in the anthocyanin pathway. *Molecular Biology and Evolution* 39: msac044.

58. Sinnott-Armstrong, M. A.+, R. Deanna+, C. Pretz*, S. Liu*, J. Harris*, A. Dunbar-Wallis*, **S. D. Smith**, & L. C. Wheeler+. 2022. How to approach the study of syndromes in macroevolution and ecology. *Ecology and Evolution* 13: e8583.

57. Pretz, C.*, & **S. D. Smith**. 2022. Intraspecific breakdown of self-incompatibility in *Physalis acutifolia* (Solanaceae). *AOB Plants* 14: plab080.

56. Liu, S.* & **S. D. Smith**. 2021. Phylogeny and biogeography of South American marsh pitcher plant genus *Heliamphora* (Sarraceniaceae) endemic to the Guiana Highlands. *Molecular Phylogenetics and Evolution* 154: 106961.

55. Wheeler, L. C.+, B. A. Wing & **S. D. Smith**. 2020. Structure and contingency determine mutational hotspots for flower color evolution. *Evolution Letters* 5: 61-74. doi.org/10.1002/evl3.212

54. **Smith, S. D.**, M. W. Pennell, C. W. Dunn & S. V. Edwards. 2020. Phylogenetics is the new genetics (for most of biodiversity). *Trends in Ecology and Evolution* 35: 415-425.

53. Larter, M.+, A. Dunbar-Wallis, A. E. Berardi+ & **S. D. Smith**. 2019. Developmental control of convergent floral pigmentation across evolutionary timescales. *Developmental Dynamics* 248: 1091-1100.

52. Dupin, J.* & **S. D. Smith**. 2019. Integrating historical biogeography and environmental niche evolution to understand the geographical distribution of Datureae (Solanaceae). *American Journal of Botany* 106: 1-12.

51. Wheeler, L. C.+ & **S. D. Smith**. 2019. Computational modeling of anthocyanin pathway evolution: biases, hotspots and trade-offs. *Integrative and Comparative Biology* 59: 585-598.

50. Deanna, R.+, M. Larter+, G. E. Barboza & **S. D. Smith.** 2019. Repeated evolution of a morphological novelty: a phylogenetic analysis of the inflated fruiting calyx in the Physalideae tribe (Solanaceae). *American Journal of Botany* 106: 270-279.

49. **Smith, S. D**., R. Angelovici, K. Heyduk, H. A. Maeda, G. D. Moghe, J. C. Pires, J. R. Widhalm, & J. H. Wisecaver. 2019. The renaissance of comparative biochemistry. *American Journal of Botany* 106: 3-13.

48. Ng, J.+ & **S. D. Smith**. 2018. Why are red flowers so rare? Testing the macroevolutionary causes of tippiness. *Journal of Evolutionary Biology* 31: 1863-1875.

47. Deanna, R.+, **S. D. Smith**, T. Särkinen & F. Chiarini. 2018. Patterns of chromosomal evolution in the florally diverse Andean clade Iochrominae (Solanaceae). *Perspectives in Plant Ecology, Evolution and Systematics* 35: 31-43.

46. Ng, J.+, L. B. Freitas & **S. D. Smith**. 2018. Stepwise evolution of floral pigmentation predicted by biochemical pathway structure. *Evolution* 72: 2792-2802.

45. Larter, M.+, A. Dunbar-Wallis, A. E. Berardi+ & **S. D. Smith**. 2018. Convergent evolution at the pathway level: predictable regulatory changes during flower color transitions. *Molecular Biology and Evolution* 35: 2159-2169.

44. Dupin, J.* & **S. D. Smith**. 2018. Phylogenetics of Datureae (Solanaceae), including description of the new genus *Trompettia* and re-circumscription of the tribe. *Taxon* 67: 359-375.

43. Gates, D. J.*, D. Pilson & **S. D. Smith**. 2018. Filtering of target sequence capture individuals facilitates species tree construction in the plant subtribe Iochrominae (Solanaceae). *Molecular Phylogenetics and Evolution* 123: 26–34.

42. **Smith, S. D.** & R. Kriebel. 2018. Convergent evolution of floral shape tied to pollinator shifts in Iochrominae (Solanaceae). *Evolution* 72: 688-697.

41. Gates, D. J.*, B. J. S. C. Olson, T. Clemente & **S. D. Smith**. 2018. A novel R3 MYB transcription repressor associated with the loss of floral pigmentation in *Iochroma*. *New Phytologist* 217: 1346-1356.

40. Moghe, G. D., & **S. D. Smith**. 2017. The push and pull of plant specialized metabolism underlies a long-standing, colorful mystery. *New Phytologist* 217: 471-473.

39. Fernandez-Hilario, R., & **S. D. Smith**. 2017. A new species of *Saracha* Ruiz & Pav. (Solanaceae) from the Central Andes of Peru. *Phytokeys* 85: 31–43.

38. McCarthy, E. W., A. Berardi+, **S. D. Smith** & A. Litt. 2017. Related allopolyploids display distinct floral pigment profiles and transgressive pigments. *American Journal of Botany* 104: 1-10.

37. Dupin, J.*, N. J. Matzke, T. Sarkinen, S. Knapp, R. G. Olmstead, L. Bohs & **S. D. Smith**. 2017. Bayesian estimation of global biogeographic history of Solanaceae. *Journal of Biogeography* 44: 887–899.

36. Gates, D. J.*, S. R. Strickler, L. A. Mueller, B. J. S. C. Olson, & **S. D. Smith**. 2016. Diversification of R2R3 MYB transcription factors in the tomato family Solanaceae. *Journal of Molecular Evolution* 83: 26-37.
35. Berardi, A.+, S. Hildreth, R. J. Helm, B. S. J. Winkel & **S. D. Smith**. 2016. Evolutionary correlations in flavonoid production in leaves and flowers of Iochrominae (Solanaceae). *Phytochemistry* 130:119-127.
34. Ho, W.+, & **S. D. Smith**. 2016. Molecular evolution of anthocyanin pigment genes during flower color transitions. *BMC Evolutionary Biology* 16: 98.
33. O'Meara, B. C., **S. D. Smith**†, W. S. Armbruster, L. D. Harder, C. Hardy, L. C. Hileman, L. Hufford, A. Litt, S. Magallón, S. A. Smith, P. F. Stevens, C. B. Fenster, & P. K. Diggle. 2016. Non-equilibrium dynamics lead to long-term persistence of ancestral floral forms in modern angiosperms. *Proceedings of the Royal Society B* 283: 20152304. †Indicates co-first author
32. Ng, J.+ & **S. D. Smith**. 2016. How to make a red flower: the combinatorial effects of pigments. *AOB Plants* 8: plw013.
31. Ng, J.+ & **S. D. Smith**. 2016. Widespread flower color convergence via alternate biochemical pathways. *New Phytologist* 209: 407-417.
30. **Smith, S. D.** 2016. Pleiotropy and the evolution of floral integration. *New Phytologist* 209: 80-85.
29. Cueva-Manchego, M. A., **S. D. Smith** & S. Leiva-Gonzáles. 2015. A new species of *Iochroma* (Solanaceae) from the cloud forests of central Peru and its phylogenetic position in Iochrominae. *Phytotaxa* 227: 147-157.
28. **Smith, S. D.**, & E. E. Goldberg. 2015. Tempo and mode of flower color evolution. *American Journal of Botany* 102: 1014-1025.
27. Coburn, R. A.**, R. H. Griffin & **S. D. Smith.** 2015. Genetic basis of a rare floral mutant in an Andean species of Solanaceae. *American Journal of Botany* 102:1-9.
26. Ng, J.+ & **S. D. Smith.** 2014. How traits shape trees: New approaches for detecting character state-dependent lineage diversification. *Journal of Evolutionary Biology* 27: 2035-2045.
25. Muchhala, N.+, S. Johnsen, & **S. D. Smith.** 2014. Competition for hummingbird pollination and the evolution of flower color diversity in Andean Solanaceae. *Evolution* 68: 2275-2286. [Featured on the cover]
24. **Smith, S. D.** 2014. Quantifying color variation: Improved formulas for calculating hue with segment classification. *Applications in Plant Sciences* 2:1300088.
23. **Smith, S. D.**, S. Wang, & M. D. Rausher. 2013. Functional evolution of an anthocyanin pathway enzyme during a flower color transition. *Molecular Biology and Evolution* 30: 602-612.
22. Weisrock, D. W., **S. D. Smith**, L. M. Chan, K. Biebouw, P. M. Kappeler, & A. D. Yoder. 2012. Concatenation and concordance in the reconstruction of mouse lemur phylogeny: an empirical demonstration of the effect of allele sampling in phylogenetics. *Molecular Biology and Evolution* 29: 1614-1630.
21. **Smith, S. D.**, & S. Leiva G. 2011. A new species of *Iochroma* (Solanaceae) from Ecuador. *Novon* 21: 491-495.
20. **Smith, S. D.**, & M. D. Rausher. 2011. Gene loss and parallel evolution contribute to species difference in flower color. *Molecular Biology and Evolution* 28: 2799-2810.
19. Johnson, M. T. J., R. G. FitzJohn, **S. D. Smith**, M. D. Rausher & S. P. Otto. 2011. Loss of sexual recombination and segregation is associated with increased diversification in evening primroses. *Evolution* 65: 3230-3430.

18. Rosas-Guerrero, V., M. Quesada, W. S. Armbruster, R. Pérez-Barrales & **S. D. Smith**. 2011. Influence of pollination specialization and breeding system on floral integration and phenotypic variation in *Ipomoea*. *Evolution* 65: 350-364. [Recommended by Faculty of 1000]

17. **Smith, S. D.** 2010. Using phylogenetics to detect pollinator-mediated floral evolution. *New Phytologist* 188: 354-363.

16. Johnson, M. T. J., **S. D. Smith** & M. D. Rausher. 2010. The effects of plant sex on range distributions and allocation to reproduction. *New Phytologist* 186:769-779.

15. Johnson, M. T. J., **S. D. Smith** & M. D. Rausher. 2009. Plant sex and the evolution of plant defenses against herbivores. *Proceedings of the National Academy of Sciences* 106:18079-18084.

14. **Smith, S. D.**, C. Ané & D. A. Baum. 2009. Macroevolutionary tests of pollination syndromes: A reply to Fenster et al. *Evolution* 63: 2763-2767.

13. **Smith, S. D.**, D. A. Baum & V. J. Kolberg**. 2008. Morphological and cytological evidence for homoploid hybridization in *Iochroma* (Solanaceae). *Madroño* 55: 280-284.

12. **Smith, S. D.**, S. J. Hall**, P. R. Izquierdo S.** & D. A. Baum. 2008. Comparative pollination biology of sympatric and allopatric Andean *Iochroma* (Solanaceae). *Annals of the Missouri Botanical Garden* 95: 600-617.

11. Paape, T., B. Igic, **S. D. Smith**, R. Olmstead, L. Bohs & J. R. Kohn. 2008. A 15-million-year-old genetic bottleneck. *Molecular Biology and Evolution* 25: 655-663.

10. **Smith, S. D.**, C. Ané & D. A. Baum. 2008. The role of pollinator shifts in the floral diversification of *Iochroma* (Solanaceae). *Evolution* 62: 793-806.

9. Ané, C., B. Larget, D. A. Baum, **S. D. Smith** & A. Rokas. 2007. Bayesian estimation of concordance among gene trees. *Molecular Biology and Evolution* 24: 412-426.

8. **Smith, S. D.**, & D. A. Baum. 2007. Systematics of Iochrominae (Solanaceae): Patterns in floral diversity and interspecific crossability. *Acta Horticulturae* 745 (VI International Solanaceae Conference: Genomics Meets Biodiversity): 241-254.

7. **Smith, S. D.**, & D. A. Baum. 2006. Phylogenetics of the florally diverse Andean clade Iochrominae (Solanaceae). *American Journal of Botany* 93: 1140-1153.

6. Baum, D. A., **S. D. Smith** & S. S. Donovan. 2005. The tree-thinking challenge. *Science* 310: 979-980.

5. Baum, D. A., **S. D. Smith**, A. Yen, W. S. Alverson, R. Nyffeler, B. A. Whitlock & R. L. Oldham. 2004. Phylogenetic relationships of Malvatheca (Bombacoideae & Malvoideae; Malvaceae sensu lato) as inferred from plastid DNA sequences. *American Journal of Botany* 91: 1863-1871.

4. **Smith, S. D.**, R. Cowan, K. B. Gregg, M.W. Chase, N. Maxted & M. F. Fay. 2004. Genetic discontinuities among populations of *Cleistes* (Orchidaceae, Vanilloideae) in North America. *Botanical Journal of the Linnean Society* 145: 87-95.

3. **Smith, S. D.** & J. E. Bond. 2003. An analysis of the secondary structure of the mitochondrial large subunit rRNA gene (*16S*) in spiders and its implications for phylogenetic reconstruction. *Journal of Arachnology* 31: 44-54.

2. **Smith, S. D.** & I. E. Peralta. 2002. Ecogeographic surveys as tools for analyzing potential reproductive isolating mechanisms: An example using *Solanum juglandifolium* Dunal, *S. ochranthum* Dunal, *S. lycopersicoides* Dunal and *S. sitiens* I. M. Johnston. *Taxon* 51: 341-349. [Featured on the cover]

1. **Smith, S. D.** & S. Knapp. 2002. The natural history of reproduction in *Solanum* and *Lycianthes* (Solanaceae) in a subtropical moist forest. *Bulletin of the Natural History Museum Botany* 32: 125-136.

BOOK CHAPTERS AND OTHER PUBLICATIONS

Gates, D. J.*, D. Pilson & **S. D. Smith**. 2023. Inferring the history of hybridization: A case study in *Iochroma* (Solanaceae). In L. S. Kubatko and L. L. Knowles, eds. *Species Tree Inference: A Guide to Methods and Applications* (pp. 161-174). Princeton University Press, Princeton, New Jersey. [peer-reviewed through publisher]. 10.32942/osf.io/jhev4

Smith, S. D. & B. K. Blackman. 2021. From deep roots to new blooms: The ever-growing field of evo–devo across land plants. *Evolution & Development* 23: 119-122.

Smith, S. D. 2021. Susan K. Pell: Recipient of the 2020 Peter Raven Award. *Systematic Botany* 46: 5.

Smith, S. D. 2020. In the spotlight. *Journal of Experimental Zoology Part B: Molecular and Developmental Evolution* 334: 261-262. doi: 10.1002/jez.b.22984

Smith, S. D. 2014. Interpreting phylogenetic trees. In *Oxford Bibliographies in Evolutionary Biology.* Ed. Jonathan Losos. New York: Oxford University Press. [peer-reviewed through publisher]

Smith, S. D., R.E. Miller, S. P. Otto, R. G. FitzJohn & M. D. Rausher. 2010. The effects of flower color transitions on diversification rates in morning glories (*Ipomoea* subg. *Quamoclit*, Convolvulaceae). Pp. 202-226 in M. Long, H. Gu & Z. Zhou, Darwin's Heritage Today. Higher Education Press, Beijing, China.

Smith, S. D., & S. Leiva G. 2005. Recuento cromosómico y estado actual de *Dunalia spathulata* (R. &P.) Braun & Bouché (Solanaceae: Solaneae) endémica de Perú. *Arnaldoa* 12: 68-71. (editor reviewed)

GRANTS & FUNDING

External Sources

2025-2028 **National Science Foundation (NSF)**, Division of Environmental Biology, Systematics and Biodiversity Science Program. "Sticky sugars and lantern fruits: Investigating the convergent evolution of inflated calyces and chemical defenses in the tomatillo tribe (Physalideae)," **$1,052,747** (PI Smith, co-PI Schenk; $824,293 to CU)

2019-2023 **NSF**, Division of Environmental Biology, Systematics and Biodiversity Science Program. "Fossils, fruits, and seeds: an integrative approach to estimating a timetree for the nightshades," **$249,536** (PI Smith)

2018-2024 **Mt. Cuba Center**. "Discovering the biogeographic and genetic history of *Clematis* sect. *Viorna*," **$80,000** (PI Harris, co-PI Smith)

2018-2019 **Consejo Nacional de Investigaciones Cientificas y Tecnicas de Argentina**. "Solanáceas sudamericanas: Avances en la sistemática, filogenia, eco-fisiología y fitoquímica," **$12,000** (PI Barboza, co-PIs Casero, Uriburu, Deanna+, Palchetti, Marín, Cantero and Smith)

2016-2023 **NSF**, Division of Environmental Biology, Phylogenetic Systematics Program. "CAREER: Testing the predictability of flower color evolution at a phylogenetic scale in the Petunieae clade (Solanaceae)", **$954,457** (PI Smith)

Non-Academic Research Internships for Graduate Students (INTERN) Supplement, "Leveraging machine learning approaches to predict metabolic genotype-phenotype associations in Saccharomycotina." **$47,133** to support Tina Melie

Research Experiences for Undergraduates (REU) Supplement, "The evolution of floral pattern across petunia and its wild relatives." **$14000** to support Charles Bush (Ogalala Lakota College), Chantelle Yazzie and Helana Joe (Utah State University)

Research Experiences for Undergraduates (REU) Supplement, "Capturing carotenoid genes associated with flower color variation in Petunieae." **$7000** to support Ashley Hamilton, Texas A&M University at Corpus Christi

2015-2016 **NSF**, Division of Environmental Biology, Phylogenetic Systematics Program, "Connecting New Systematic Biologists Across Borders: A Workshop in Model-Based Phylogenetics at Evolution 2015", **$47,608** (PI Smith, co-PI Carstens)

2013-2018 **NSF**, Division of Environmental Biology, Evolutionary Genetics Program. "Mechanisms of convergent flower evolution above and below the species level." **$480,000.** (PI Smith)

Research Experiences for Undergraduates (REU) Supplement, "Capturing genetic variation in pigmentation genes associated with convergent flower color transitions." **$7000** to support Keric Lamb & Amanda Malone, CU EBIO undergraduates

Research Assistantship for High School Students (RAHSS) Supplement, "Evolution of the *F3'5'h* gene during flower color transitions." **$2520** to support Kaixin Cui of Fairview HS

2013-2017 **NSF,** Division of Environmental Biology, Biodiversity Discovery & Analysis Program. "Evolution and diversification of red flowers: Testing the macroevolutionary causes of rarity." **$360,000.** (PI Smith)

REU Supplement, "Repeated origins of red flowers in Mexican *Cestrum* (Solanaceae)." **$7000** to support Daniel Jackson and Jeffrey Neiman, CU EBIO undergraduates

RAHSS Supplement, "Evolution of petal cell shape in Iochrominae (Solanaceae)." **$2520** to support Lauren Nalezny, Broomfield HS

HONORS/AWARDS

2022 Nominee for UROP Outstanding Faculty Mentor Award

2020 Early Career Researcher Spotlight, JEZ-B: Molecular and Developmental Evolution

2017 Pan-American Society for Evolutionary Developmental Biology Early Career Award

2014 Botanical Society of America Emerging Leader Award
Society for the Study of Evolution, Outreach Award

2013 T. O. Haas Award for Excellence in Research, School of Biological Sciences, UNL

2012 Certificate of Recognition for Contributions to Students, UNL Parents Association

2007-2010 NIH Ruth L. Kirschstein Postdoctoral National Research Service Award.

2006 Molecular Evolution and Comparative Genomics Postdoctoral fellowship, IGSP Center for Evolutionary Genomics, Duke University.
Outstanding student talk, International Solanaceae Conference, Madison, WI.

2005 O. N. Allen Dissertator Fellowship, University of Wisconsin-Madison.

2004 Vilas Travel Grant, UW-Madison.
John Jefferson Davis Graduate Research Award, UW-Madison.
Tinker-Nave Short Term Field Research Grant, UW-Madison.

2003-2006 Marie Christine Kohler Fellowship, University of Wisconsin-Madison.

2003 NSF Doctoral Dissertation Improvement Grant.

2002 American Society of Plant Taxonomists Graduate Research Award.
Ruth Dickie Grants-In-Aid for Graduate Women in Science.

1999-2001 British Marshall Scholarship for postgraduate studies in the UK.

1999 College of Arts & Sciences Outstanding Senior Award

Phi Kappa Phi Lifetime Membership
Outstanding Senior Award, Dept. of Biology, Virginia Tech.
Outstanding Senior Award, Dept. of Foreign Languages and Literature, Virginia Tech.
Sigma Xi, Grants-in-Aid of Research.

1998 Morris K. Udall National Scholarship.

1997 Daughtrey Scholarship, Virginia Tech.
NSF REU internship, La Selva Biological Station, Costa Rica.
Biological Sciences Initiative Grant, Virginia Tech.

1996 Thomas Moss Leadership Scholarship, Virginia Tech.

1995 Phi Sigma Scholarship, Virginia Tech.

MEDIA

Popular Science, Articles, and Blogs: Essay entitled "With bated breath" in *Sift & Winnow*, UW-Madison Letters & Science Newsletter, 2025; Interview with LiveScience about seedless fruits 2023; Interview with Denver Gazette and Public News Service about fossil pepper, 2023; Being a woman in STEM, article by M. Kreich for The Bold Magazine, CU Boulder, March 2021; Consulted and quoted for *Bill Nye's Great Big World of Science* by Bill Nye and Gregory Mone, 2020; NSF Science 360 Top Story, February 2017; HHMI Image of the Week, Sept. 2015; Research highlights from EcoGen meeting in The Molecular Ecologist Blog, 2014; Quoted as pollination expert in National Geographic's Weird and Wild feature, 2014; Coverage of research in EurekAlert!, 2014; Article in OnWisconsin Magazine, 2012

Radio and podcasts: Science Fare with Susan Reslewic Keatley, 2025; Crime Pays But Botany Doesn't with Joey Santore, 2022; Ask a Scientist Podcast with Vikki Crystal, February 2020; Interview for Science Hour on UW-Madison's WSUM, 2006

University Press Releases and features: Article on fossil pepper in CU Today, 2023; Article on fruit color in CU Today, 2022; Article on greenhouse research in CU A&S Magazine, 2016; UNL Today Feature on undergraduate researcher L. Obaidi, 2013; Featured lab in the UNL Research Report, 2013; UNL Biological Sciences Student Spotlight on undergraduate researcher D. Carter, 2013; UNL News Blog Feature on research of postdoctoral fellow N. Muchhala, 2012; UNL News Release on Goldwater Scholarship Winner and undergraduate researcher R. Coburn, 2012

INVITED SEMINARS [58 total]

2026 Dept. of Biology, University of Maryland, College Park, MD, pending
Dept. of Biology, Colorado State University, Fort Collins, CO, pending

2025 Dept. of Ecology and Evolutionary Biology, University of Toronto, Canada
Dept. of Biology, University of Florida, Gainesville, FL

2024 Dept. of Ecology, Evolution and Environmental Biology, Columbia University, New York, NY

2023 Dept. of Biochemistry, Max Planck Institute for Chemical Ecology, Jena, Germany (virtual)
Genetics and Genomics Academy Seminar Series, North Carolina State University, Raleigh, NC
Dept. of Biology, University of California, Irvine, CA (virtual)

2022 Dept. of Plant Biology, Michigan State University, East Lansing, MI (virtual)

2021 Evolutionary Biology Centre, Dept. of Organismal Biology, Uppsala University, Sweden (virtual)
Dept. of Biological Sciences, Western Michigan University, Kalamazoo, MI (virtual)
Dept. of Biology, Indiana University, Bloomington, IA (virtual)
Institute for Systematics and Evolutionary Botany, Univ. of Zurich (virtual)

2020 Solanaceae Seminar Series, online at physaloidseminars.weebly.com
Joint 'Phylopizza' Series, Smithsonian, NCBI and George Washington University

2019 Centre for Ecological and Evolutionary Synthesis, Oslo, Norway
Dept. of Botany, University of Wisconsin, Madison, WI
Interdisciplinary Plant Group, Univ. of Missouri, Columbia, MO
Dept. of Biological Sciences, Louisiana State University, Baton Rouge, LA

2018 Dept. of Biological Sciences, Auburn University, Auburn, AL
Organismal Biology and Ecology (OBE) Department, Colorado College, Colorado Springs, CO
Dept. of Geology, University of Colorado, Boulder, CO

2017 Museo de Historia Natural, Universidad Privada Antenor Orrego, Trujillo, Peru

2016 Dept. of Ecology and Evolutionary Biology, Cornell University
Rocky Mountain Biological Station, Crested Butte, CO
Dept. of Botany, Natural History Museum, Univ. Nac. Mayor de San Marcos, Lima, Peru
Dept. of Biology, University of Washington, Seattle, WA **(Melinda Denton Endowed Lecture)**
Dept. of Ecology and Evolutionary Biology, University of California-Los Angeles

2015 Dept. of Biological Sciences, University of Idaho, Moscow, ID
Dept. of Genetics, Universidade Federal do Rio Grande do Sul, Porto Alegre, Brazil
Dept. of Biology, University of Pittsburgh, Pittsburgh, PA
Dept. of Biology, Colorado State University, Fort Collins, CO
Dept. of Zoology and Physiology, University of Wyoming, Laramie, WY
Dept. of Plant Biology, University of Georgia, Athens, GA

2014 Dept. of Ecology and Evolutionary Biology, University of Michigan, Ann Arbor, MI
Dept. of Ecology and Evolutionary Biology, University of Arizona, Tucson, AZ

2013 Women and Minority Scholars Lecture Series, Virginia Tech, Blacksburg, VA
Dept. of Biology, University of Florida, Gainesville, FL
Dept. of Ecology and Evolutionary Biology, Brown University, Providence, RI
Dept. of Ecology and Evolutionary Biology, University of Colorado, Boulder, CO

2012 Divisions of Biological Sciences and Plant Sciences, Univ. of Missouri, Columbia, MO
Dept. of Botany, Oklahoma State University, Stillwater, OK
Dept. of Biology, University of Maryland, College Park, MD
Dept. of Ecology, Evolution and Organismal Biology, Iowa State University, Ames, IA
Dept. of Evolution and Ecology, University of California, Davis, CA
Dept. of Ecology and Evolutionary Biology, University of Connecticut, Storrs, CT
Dept. of Biology, University of Nebraska-Omaha, Omaha, NE

2011 Rancho Santa Ana Botanical Garden, Claremont Graduate University, Claremont, CA
Harvard Univ. Herbarium, Dept. of Organismic & Evolutionary Biology, Boston, MA
Dept. of Biology, Kansas State University, Manhattan, KS
Dept. of Ecology and Evolutionary Biology, University of Kansas, Lawrence, KS
Dept. of Biology, Black Hills State University, South Dakota, Spearfish, SD

2010 Dept. of Biology, University of South Dakota, Vermillion, SD
Natural History Museum, Univ. Nacional Mayor de San Marcos, Lima, Peru

2009 Dept. of Biology, East Carolina University, Greenville, NC (Graduate Student Speaker)
Dept. of Plant Biology, University of Minnesota

2008 School of Biological Sciences, University of Nebraska-Lincoln
Dept. of Biology, Central Connecticut State University

2005 Dept. of Botany, Natural History Museum, Univ. Nac. Mayor de San Marcos, Lima, Peru

WORKSHOPS / SYMPOSIA

2024 Workshop on Evolutionary Rate Covariation and Coevolution, organized by Evan Forsythe and Dan Sloan. ***Invited speaker.***

2023 Society for Systematic Biologists (SSB) Graduate Phylogenetics Workshop, Chamela Biological Station, Mexico. ***Member of instructional team.***

2022 Centre for Ecological and Evolutionary Synthesis Symposium, "Determinants of Rates of Origination, Extinction and Evolution", Oslo, Norway, ***Invited speaker***.

2019 Society for the Study of Evolution (SSE) Spotlight Session at Evolution 2019, "Beyond tempo and mode: toward process-based models of macroevolutionary trait evolution" ***Co-organizer*** (with J. Uyeda).

Integrative plant biology, Society for Integrative and Comparative Biology (SICB) meeting, Tampa FL, ***Invited speaker***

2018 Oak Spring eFLOWER Summer School for graduate students in comparative methods, Upperville, VA, ***Invited speaker***

Evolution of Plant Chemical Diversity: Renaissance of comparative biochemistry, Botany Meeting, Rochester, MN, ***Speaker and co-organizer*** (with J. C. Pires)

Endless forms: UC Berkeley Symposium on Non-Model Systems, Berkeley, CA, ***Invited speaker***

Estimating species trees workshop, Society of Systematic Biologists (SSB) Meeting, Columbus, OH, ***Invited speaker***

2017 Latin American Solanaceae Symposium, Joint Meeting of the Botanical Societies of Chile and Argentina, Mendoza, Argentina, ***Invited speaker***

SSB Symposium at Evolution 2017, "Phylogenetic approaches to connecting genotypes to phenotypes." ***Speaker and organizer***

Comparative Methods Workshop, Universidad de Córdoba, Argentina (4 days, 30 participants), ***Lead organizer and presenter***

2015 13th Annual Ecological Genomics Symposium organized by B. J. S. C. Olson. Manhattan, KS, ***Invited plenary speaker***

7th Annual Symposium on STEM Education, CU Center for STEM Learning, Boulder, CO, ***Poster presentation*** *(co-author, Dr. Gabrielle Katz)*

Society for Systematic Biologists Graduate Student Workshop in Model-based Phylogenetics, Guaruja, Brazil, ***Organizer and presenter***

2014 12th Annual Symposium in Plant Biology organized by M. Bartlett and J. Preston. Amherst, MA, ***Invited speaker***

Inaugural Society for Systematic Biologists Workshop, Snowbird, UT, ***Invited speaker***

2012 7th Annual Organismal Biology Day, Smithsonian Institution, Washington, D.C. ***Invited speaker***

Estimating Species Trees Workshop organized by B. Carstens and L. Kubatko, Ohio State University, Columbus, OH. ***Invited speaker***

2011 MicroMORPH NSF Research Network Conference organized by P. Diggle and N. Friedman, University of Colorado, Boulder, CO. ***Invited speaker***

2010 Plant Science Retreat organized by the Plant Science Innovation Center of the University of Nebraska-Lincoln. Nebraska City, NE. ***Invited speaker***

2004 Plant Speciation Symposium, sponsored by *New Phytologist* and organized by L. Rieseberg et al. Antigonish, Nova Scotia. Poster presentation.

CONFERENCE PRESENTATIONS

(presenter in parentheses, **undergraduate, *graduate student or + postdoc that I have supervised)

2024 Botany Meetings, **1** contributed talk (Pezzi*)

2023 Botany Meetings, **3** contributed talks (Liu*, Dellinger+, Sinnott-Armstrong+)

2022 Guild of Rocky Mountain Ecologists and Evolutionary Biologists (GREEBs), **2** contributed talks (Kerber**, Dellinger+)

Botany Meetings, **2** contributed talks (Liu*, Dellinger+)

Evolution, **1** contributed talk (Deanna+)

2021 Botany Meetings (virtual), 2 contributed talks (Pretz*, Sinnott-Armstrong+)

SICB Meeting (virtual), 1 contributed talk (Sinnott-Armstrong+)

2020 SOL International Online Meeting (for Solanaceae), **2** contributed posters (Deanna+, Wheeler+)

Botany Meetings (virtual), **2** contributed talks (Pretz*, Strickler, Wheeler+), **1** poster (Harris*)

2019 X Congreso Colombiano de Botánica (Florencia, Caquetá, Colombia), **1** invited talk (Deanna+)

Jornadas Argentinas de Botánica (Tucumán, Argentina), **1** invited talk (Deanna+)

Botany Meetings (Tucson, AZ), **2** contributed talks (Pretz*, Hamilton**), **5** posters (Allende*, Liu*, Harris*, Fairchild**, Florez**)

Evolution Joint Meetings (Providence, RI), **1** contributed talk (Wheeler+)

Society for Integrative & Comparative Biology (Tampa, FL), **1** contributed talk (Wheeler+), **1** poster (Larter+)

2018 Botany Meetings (Rochester, MN), **1** contributed talk (Smith), **2** posters (Dupin*, Pretz*, Kantor**)

Society for Systematic Biologists Meeting (Columbus, OH), **2** posters (Liu*, Pretz*)

2017 Evolution Joint Meetings (Portland, OR), **3** contributed talks (Smith, Ng+, Larter+)

Botany Meetings (Fort Worth, TX), **1** contributed talk (Dupin*), **2** posters (Dupin*, Pretz*)

Pan-Am EvoDevo Meeting (Calgary), ***Invited plenary speaker*** (Smith)

2016 17th Annual Meeting of the Gesellschaft für Biologische Systematik (Munich, Germany), ***Invited plenary speaker*** (Smith)

2015 Pan-Am EvoDevo Meeting (Berkeley, CA), ***Invited plenary speaker*** (Smith), **1** contributed poster (Neiman**)

2015 Botany Joint Meetings (Boise, ID), Emerging Leader Lecture, ***Invited speaker*** (Smith)

2015 Evolution Joint Meetings (Guaruja, Brazil), **1** contributed talk (Smith), **1** contributed poster (Dupin*)

2015 Society for Systematic Biology Standalone Meeting (Ann Arbor, Michigan), **2** contributed talks (Ng+, Gates*)

2014 Botany Joint Meetings (Boise, ID), American Society of Plant Taxonomists Symposium, "Phylogenetic Comparative Methods and Approaches in Plant Science," Organized by J. Schenk. ***Invited speaker*** (Smith)

2014 Evolution Joint Meetings (Raleigh, NC), **3** contributed talks (Ho+, Ng+, O'Meara), **1** poster (Gates*)

2013 Botany Joint Meetings (New Orleans, LA), **2** contributed posters (Dupin*, Gates*)

2013 Society for Molecular Biology and Evolution Meeting (Chicago, IL), Symposium in "Molecular mechanisms of functional evolution," Organized by J. Thornton and V. Lynch. ***Invited speaker*** (Smith)

2012 Joint International meeting: Society for the Study of Evolution/European Society for Evolutionary Biology (Ottawa, Canada), **2** contributed talks (Smith, Muchhala+), **1** poster (Gates*)

2011 Evolution Joint Meetings (Norman, OK), **Society of Systematic Biologists** (SSB) Symposium, Symposium in "Understanding Patterns of Character Evolution and Diversification," Organized by S. Smith and B. Igic. ***Invited speaker*** (Smith)

2011 Botany Joint Meetings (New Orleans, LA), **1** contributed talk (Smith)

2010 Evolution Joint Meetings (Portland, OR), **2** contributed talks (Smith, Johnson)

2009 *European Society for Evolutionary Biology* (Turin, Italy), Symposium on "Pollinator-mediated Selection in Floral Evolution," Organized by Y. Sapir and W. S. Armbruster. ***Invited speaker*** (Smith)

2008 Evolution Joint Meetings (Minneapolis, MI), **1** contributed talk (Smith)

2006 VI International Solanaceae Conference (Madison, WI), ***Selected speaker*** (Smith)

2006 Evolution Joint Meetings (Stony Brook, NY), **1** contributed talk (Smith)

2005 Evolution Joint Meetings (Fairbanks, AK), **1** contributed talk (Smith)

2005 Botany Joint Meetings (Austin, TX), **1** contributed talk (Smith)

2004 Evolution Joint Meetings (Fort Collins, CO), **1** poster (Smith)

WORKING GROUP COLLABORATIONS

Plant-hummingbird co-evolution (2021-present). Swiss Federal Research Institute (**WSL**), Birmensdorf, Switzerland. Organizers: Elisa Barreto and Catherine Graham

Synthesis of micro- and macroevolution (2019-present). Centre for Ecological and Evolutionary Synthesis (**CEES**), University of Oslo**.** Organizers: Nils Chr. Stenseth, F. Bokma. Steering committee comprises S. Smith, Naoki Irie and Carl Simpson.

Species Delimitation (2010-2011). National Institute for Mathematical and Biological Synthesis (**NIMBioS).** Organizers: D. Weisrock, R. Yoshida.

Floral assembly: Quantifying the composition of a complex adaptive structure (2008-2011). National Evolutionary Synthesis Center (**NESCent**). Organizers: C. Fenster, W. S. Armbruster, P. Diggle.

Comparative Methods in R Hackathon (2007). National Evolutionary Synthesis Center (**NESCent**). Organizers: B. O'Meara, S. Kembel, H. Lapp, S. Price, T. Vision, A. Zanne.

TEACHING

Courses Taught, University of Colorado-Boulder:

Instructor: **General Biology,** Ecology & Evolutionary Biology (EBIO) 1220. 3 hours lecture (3 credit hours). Spring 2015, 2018

Instructor: **Plants and Society**, EBIO 3590. 3 hours lecture / 3 hours lab (4 credit hours; TA). Spring 2015, Spring 2016, Fall 2016, 2017, 2018, 2019, 2021, 2022, 2024, 2025

Co-Instructor (with Kane, Flaxman, Safran and Tripp): **Evolutionary Genomics**, EBIO 3590. 2 hour seminar (2 credit hours). Spring 2015, 2016.

Instructor: **Phylogenetics and Comparative Biology**, EBIO 4290/5290. 3 hours lecture / 3 hours lab (4 credit hours; TA). Fall 2015, Spring 2019, 2021, 2022, 2023, 2024, 2025

Instructor: **Molecular Systematics and Evolution**, EBIO 4290/5290. 3 hours lecture / 2 hours lab (3 credit hours; TA). Fall 2014

Instructor: **Diversity and Inclusion**, EBIO 5190. (1 credit hour). Spring 2021, 2022, 2024

Instructor: **Phylogenetic Comparative Methods**, EBIO 6100 / 6300. (1 credit hour). Fall 2013, 2016, 2018

Instructor: **Comparative Genomics,** EBIO 6300. (1 credit hour). Fall 2021

Independent Study, University of Colorado-Boulder:

- Jack Goldberg, EBIO 4870, 3 credits, Comparative Plant Pigment Chemistry, Fall 2025
- Ash Kerber EBIO 4870, 6 credits, Flower biomechanics and buzz pollination, Fall 2023
- Rachel Effron, EBIO 4870, 2 credits, Plant Biochemistry, Spring 2023
- Abel Campos, EBIO 4870, 2 credits, Comparative Plant Morphology, and Ash Kerber, EBIO 4840, 1 credit, Pollination Ecology, Fall 2022
- Rachel Effron, EBIO 4870, 1 credis, Plant Biochemistry, Summer 2022
- Kayleigh Dodson, EBIO 4870, 4 credits, Plant Evolutionary Biology, Spring 2022
- Abel Campos, EBIO 4840, 1 credit, Paleobotany, Spring 2021
- Juan Florez, EBIO 4870, 2 credits, Plant Reproductive Biology & Luis Allende, EBIO 8840, 2 credits, Molecular Evolution, Summer 2019
- Laurence Fairchild, EBIO 4870, 2 credits, Pollination Biology, Spring 2019
- Sukuan Liu, Chelsea Pretz, Luis Allende & Patrick Morrison, EBIO 7840, 3 credits, Statistical comparative methods, Spring 2018
- Sukuan Liu, Carly Anderson, Javan Carter & Katherine Hernandez, EBIO 7840, and Kevin Thirouin, EBIO 4840, 3 credits, Phylogenetics, Fall 2017
- Lexi Cantor, EBIO 3870, 3 credits, Pollination Biology, Spring 2017
- Chelsea Pretz, Kristin White & Kelly Carscadden, EBIO 7840, 1 credit, Computational Phylogenetics, Fall 2016
- James Massey, EBIO 7840, 3 credits, Phylogenetics, Spring 2016
- Jessica Persinger, EBIO 4840, 3 credits, Phylogenetics, Spring 2016
- Jeffrey Neiman, EBIO 3870, 3 credits, Plant physiology & biochemistry, Fall 2014, Spring 2015

Courses Taught, University of Nebraska-Lincoln:

Instructor: **Organismic Biology**, Biological Sciences (BIOS103). 3 hours lecture / 3 hour lab (4 credit hours). Fall 2011, Fall 2012.

Instructor: **Phylogenetic Biology**, Biological Sciences (BIOS429/829). 3 hours lecture / 2 hour lab (4 credit hours). Spring 2012, Spring 2013.

Guest Faculty Member:

- **Tropical Plant Systematics**, Graduate field course in Costa Rica, Organization for Tropical Studies, 1.5 weeks of instruction on phylogenetics, June 2008, 2012

CU WORKSHOPS ATTENDED

Center for Inclusion and Social Change, Diversity & Inclusion Summit, Session:"Purpose with a Capital P with Anthony Siracusa", Fall 2021

Center for Inclusion and Social Change, Diversity & Inclusion Summit, Session:"Practicing Courage: Microaggressions and So You Want to Talk About Race with Nikki McCord", Spring 2021

Scientific Communication Advances Research Excellence (SCOARE) workshop, training on mentoring students in scientific communication, Biofrontiers, Fall 2019

Office of Diversity, Equity, and Community Engagement, Inclusive Pedagogy Workshops

- Increasing student motivation: Strategies that work, Fall 2017

FTEP (Faculty Teaching Excellence Program) Workshops

- CTL: Habits of inclusion for classroom culture with M. A. Shea and A. Beaver, Fall 2019
- Early Career Faculty workshop: Work/Life Balance with N. Barger, Spring 2016
- Early Career Faculty workshop: Grants and Funding with N. Barger, Fall 2015
- Doing it all in the first seven years with M. Osborne, Fall 2015
- Early Career Faculty workshop: Tenure and Promotion with N. Barger, Fall 2015
- Early Career Faculty workshop: Graduate advising with N. Barger, Fall 2014
- Building relationships to foster learning with P. Axelrad, Fall 2014
- Early Career Faculty workshop: Grants and Funding with N. Barger, Fall 2014
- Early Career Faculty workshop: Renovation with S. Collinge, Spring 2014
- Designing courses and Syllabi with J. Fitzgerald, Fall 2013
- Leading Class Discussion with M. Klages, Fall 2013
- Work-Life Balance with F. Riosmena, Fall 2013
- Learning Goals and Formative Assessment with K. Perkins and S. Chasteen, Fall 2013
- Innovative Teaching with N. Barger and A. Palmer, Fall 2013

LEAP (Leadership Education for Advancement and Promotion) Workshops

- Workshop on student issues relating to DACA and immigration status, Spring 2018
- Women's Mentoring Luncheon, Spring 2014
- Introductory Leadership Workshop, 3 day-event, Spring 2014

MENTORING

Postdoctoral Associates [11 total]

Malia Santos (2025-present)
Miranda Sinnott-Armstrong (NSF PRFB, 2019-2023, presently postdoctoral fellow, Duke U.)
Rocío Deanna (2017-2023, presently Investigator, IMBIV, Cordoba and MSCA Fellow)
Agnes Dellinger (Hertha Firnberg Fellow, 2020-2023, presently Asst. Professor, U. of Vienna)
Luke Wheeler (2018-2022, presently postdoctoral fellow, University of South Carolina)
Maximilian Larter (2017-2019, presently postdoctoral fellow at INRAE, Bordeaux, France)
Robert Laport (2015-2018, presently Assistant Professor, College of Idaho)
Julienne Ng (2013-2018, Head Data Scientist, Change Machine)
Andrea Berardi (2014-2016, presently Assistant Professor, James Madison University)
Winnie Ho (2013-2014, presently Medical Writer, Penumbra, Inc., Alameda, CA)
Nathan Muchhala (2010-2013, presently Associate Professor, Univ. of Missouri-St. Louis)

Visiting Scholars [5 total]

Gina Paola Sierra Reyes (Universidad de los Andes, Fulbright Fellow, fall 2024-spring 2025)
Pedro H. Pezzi (U. Rio Grande do Sul, visiting doctoral fellow, fall 2022-spring 2023)
Brigitte Tenhumberg (University of Nebraska-Lincoln, sabbatical scholar, spring 2022)
Alice Backes da Rosa (U. Rio Grande do Sul, visiting doctoral fellow, spring 2018)
Rocío Deanna (U. de Cordoba, Argentina, Fulbright Fellow, summer 2017)

Graduate Students [8 total]

Kyle Schutz (PhD, 2022-2025, currently an assistant professor at UNC Greeley)
Tina Melie (PhD, 2022-2023, currently postdoctoral fellow with Hiroshi Akashi at the National Genetics Institute in Japan)
Jesse Harris (PhD, 2018-2024)
Sukuan Liu (PhD, 2017-2024, currently postdoctoral fellow with Dan Sloan at CSU)
Luis Allende (MA, 2017-2020)
Chelsea Pretz (PhD, 2016-2022)
Julia Dupin (PhD, 2012-2017, currently owner of Pachira Data Science, Toulouse, France)
Daniel Gates (PhD, co-advised with D. Pilson at UNL, 2011-2016)

Graduate Committees at CU-Boulder [27 total]

M. Greenwood (PhD, Kociolek, 2025-present); S. Raynor (PhD, Manzitto-Tripp, 2024-present); G. Bowman (PhD, Evans, 2024-present); J. Watts (PhD, Manzitto-Tripp, 2023-present); D. Klee (PhD, Kane, 2023-present); A. Tan (PhD, Li, 2022-present); A. Dunbar-Wallis (PhD, Corwin, 2021-2022); S. Plaza-Torres (MS, Wing, 2022-2023); P. Morrison (MS, Mojzsis, 2019-2020); Z. Root (PhD, Medeiros, 2019-2022); K. Feldmann (MA, Taylor, 2019-2021); A. Westmoreland (PhD, Emery, 2018-2023); G. Glime (MA, Adams & Demmig-Adams, 2018-2020); L. Barton (MS, Tripp, 2017-2019); K. Hernandez (PhD, Bowers, 2017-2023); E. Funk (PhD, Taylor, 2017-2022); K. Carscadden (PhD, Emery, 2017-2021), A. Oliverio (PhD, Fierer, 2016-2019); K. Keepers (PhD, Martin, 2015-2021); J. Massey (PhD, Medeiros, 2015-2022); J. Lowenstein (PhD, Stock, 2015-2023); S. Polutchko (MA, Adams & Demmig-Adams, 2015-2018, PhD, 2020-present); M. Sharples (PhD, Tripp, 2015-2019); M. Blanchard (PhD, Bowers, 2014-2019); M. Mitter (PhD, Mitton, 2014-2018); K. Bracy Knight (PhD, McCain, 2013-2017); T. Hammer (PhD, Fierer, 2013-2018)

Graduate Committees at UNL [12 total]

M. Whitman (PhD, Russo, 2012-2014); E. Racz (PhD, Russo, 2012-2013); M. C. Chelini (PhD, Hebets, 2011-2013); M. E. Chaffee (PhD, Brisson, 2011-2013); J. P. Gibert (PhD, Brassil, 2011-2013); W. Guo (PhD, Mower, 2011-2013); N. Hepburn (MS 2012, Mower); A. Kallenberg (PhD, Basolo, 2011-2015); G. Kandari (MS 2012, MacKenzie); K. Jain (PhD, Mower, 2011-2013); K. Roccaforte (MS 2012, Russo/Pilson); S. Willis (PhD 2011, Orti)

External Graduate Committees/External Examiner [9 total]

Jill Sanderson (PhD, Mahler, University of Toronto, 2025)
Yue Yang (PhD, Eaton, Columbia University, 2025-present)
Pablo Andres Perez Mesa (PhD, Roda, Universidad de los Andes, 2025)
Esther Senden (PhD, Sapir, Tel Aviv University, 2024)
Gina Paola Sierra Reyes (PhD, Roda, Universidad de los Andes, 2024)
Pablo Andres Perez Mesa (PhD, Roda, Universidad de los Andes, 2021)
Sofía Rojas (MS, Madriñán, Universidad de los Andes, 2019)
A. Dellinger (PhD, Schönenberger, University of Vienna, 2018)
M. Koski (PhD, Ashman, Univ. of Pittsburgh, 2011-2015)

Undergraduate Researchers [48 total]

University of Colorado-Boulder [40]:

L. Baker (Studio Lab, 2025-present); O. Leshem (Studio Lab, 2025-present), C. Singh (UROP, 2025-present); J. Goldberg (UROP, 2025-present); E. Jensen (Studio Lab, 2024-present); P. Jones (Studio Lab, 2024-2025); A. Kerber (2022-2024); S. Wells (2022-2024); H. Joe (2022); R. Effron (2022-2023); E. Au (2021-2022); C. Bush (2021, REU from Ogalala Lakota College); J. Zhao (2021); R. Dale (2021); K. Dodson (2021-2023); M. McEvoy (2021); A. Campos (2021-2023); C. Jacobs (2020, REU from UNC Pembroke); C.Yazzie (2020-2021, REU from Utah State University); M. Oxendine (2020, REU from Robeson Community College); A. Hamilton (2019, REU from TAMU-CC); L. Fairchild (2019-2020); J. Florez

(2019); N. Gustafson (2018); N. Kelly (2017-2019, BURST), A. Assante (2017-2018, BURST), K. Thirouin (2017-2019); A. Kantor (2016-2018, BURST); A. Miller (2016-2017), W. Weaver (2015-2019, BURST, UROP); J. Persinger (2015-2017, BURST, REU; Indep. Study Spring '16 EBIO 3870); N. Pinson (2015-2016, BURST); C. Toomey (2015, BURST); L. Nalezny (2015, REU); K. Lamb (2014-2016, BURST, UROP, REU); A. Malone (2014-2016, BURST); J. Neiman (2013-2016, UROP, REU; Indep. Study Fall '14, Spring '15 EBIO 3870); D. Jackson (2013-2014, BURST, REU), H. Biagini-Lee (2013-2014, BURST); J. Berl (2013-2014)

University of Nebraska-Lincoln [5]:
Brandan Dinkelman (2012-2013, UCARE studentship); Dylan Carter (2012-2013, UCARE studentship, NSF-REU); Richard Thomas (2012-2013); Latifa Obaidi (2011-2014, UCARE studentship, SMBE Undergraduate Travel Award 2013, Honors Thesis in Biochemistry); Rachel Coburn (2011-2014, NIH-INBRE Scholar, Goldwater Scholarship, Honors Thesis in Biochemistry)

Duke University [3]:
Christine Reinhardt (2010); Rechelle Tull (2009, SROP Summer Studentship); Akshay Nadkarni (2008-2009)

University of Wisconsin-Madison [5]:
Steven J. Hall (2003-2005, now Asst. Prof. at Iowa State University); Pablo Izquierdo (2002-2004); Vanessa Kolberg (2002-2004); Karen Walsh (2001-2003); Tara Mehta (2002-2003)

High School Students [12 total]
M. Ogilvie, Fairview H.S. (Summer 2025, CU Science Discovery); S. Hughes, Peak to Peak H.S. (Summer 2025, CU Science Discovery); T. Harms, Fairview H. S. (Fall 2024-Spring 2025, Science Research Seminar (SRS)); A. Shahar, Fairview H. S. (Fall 2024-Spring 2032, SRS); L. Maier, Boulder H. S. (Fall 2022-Spring 2023, SRS), K. Cui, Fairview H. S. (Summer 2014-2016, SRS); J. Gloe, Nederland H. S. (Summer 2015); K. Ding, Fairview H. S. (Summer 2015); H. Hartung, Fairview H. S. (Summer 2014); L. Nalezny, Broomfield H. S. (2013-2014, SRS, NSF-Research Assistantship for H. S. Students); D. Guiza Beltran (Summer 2013); J. Garcia (Summer 2013)

SERVICE

PROFESSIONAL SERVICE

Primary Literature Peer-Reviews for: [41 total] *American Journal of Botany; American Naturalist; Annals of Botany; Australian Journal of Botany; Current Opinion in Plant Biology; Current Zoology; CBE Life Sciences Education; Ecology Letters; Evolution; Evolution: Education and Outreach; Evolutionary Ecology; Frontiers in Plant Evolution and Development; Frontiers in Plant Science; Horticulture Research; International Journal of Evolutionary Biology; Journal of Heredity; Journal of Pollination Ecology; Journal of Tropical Ecology; Insect Systematics and Diversity; Madroño*; *Methods in Ecology and Evolution; Molecular Biology and Evolution; Molecular Ecology; Molecular Ecology Resources; Molecular Plant; Nature Ecology and Evolution; New Phytologist; Perspectives in Plant Ecology; Evolution and Systematics; Phytokeys; Plant Biology; Plants, People, Plant; Plant Physiology; Plant Systematics and Evolution; Philosophical Transactions of the Royal Society B; Proceedings of the Royal Society B; Science; Systematic Biology; Taxon; The Plant Journal; Trends in Ecology and Evolution*

Editorial Board, *Evolution & Development*, 2019-present
Associate Editor, *Evolution*, 2017-2020
Associate Editor, *Systematic Biology*, 2021-present

Special Issue Editor, *Applications in Plant Sciences*, 2024-2025

Textbook Peer-Reviews:
Campbell Biology, Pearson, 2013
Bayesian Phylogenetics, Sinauer, 2013

Society Memberships & Service

Society for Integrative and Comparative Biology
Chair of the Prize committee for the Rising Star in Organismal Botany, 2018-2019, 2021
Pan-American Society for Evolutionary Developmental Biology
Membership and Registration Officer, 2017-2019
Society of Systematic Biologists
Nominations Committee, 2023-present (2025 chair)
Legacy Committee, 2022-present
Panel member, Women-in-Science Luncheon, 2016
Program Chair (Council Appointed), 2014–2016
Elected Council Member, 2012-2014
American Society of Plant Taxonomists
Honors and Awards Committee, 2018-2019
Environment and Public Policy Committee, 2012-2014; Chair, 2014-2015
Botanical Society of America
Distinguished Fellow & Emerging Leader Committee, 2022-2025
Strategic Planning Committee, 2014, 2021
Committee on Human Diversity, 2014-2018
Society for the Study of Evolution
Elected Council Member, 2020-2022
Hamilton Award Judge, 2013, 2014
Panel leader, Women-in-Science Luncheon, Evolution Meeting 2013
Society for Molecular Biology and Evolution

UNIVERSITY SERVICE

IQBio graduate admissions committee, BioFrontiers Institute*, 2022-2023*

Director of the Natural History Museum Search committee*, 2022*

Reviewer for student research grants*, UROP Spring 2017 (22 proposals), 2021 (13 proposals), 2022 (19 proposals)*

A & S Consortium of Committees on Climate, Equity, iNclusion, & Diversity (ASCEND)*, Spring 2020*

Council member, BioFrontiers Institute*, Spring 2019-present*

Faculty Leadership Institute*, 2018-2019*

Selection committee for Graduate School Dissertation Completion Fellowship, *Fall 2018*

Member of the cross-departmental shared equipment team, *Fall 2017-Spring 2019*
Team led by K. Ramirez, winner of the 2017 Short Experiment Innovation Grant

DEPARTMENTAL SERVICE

Department of Ecology & Evolutionary Biology, CU-Boulder

Standing committees
Justice, Equity, Diversity, and Inclusion Committee, Fall 2019-2023 (2021-2023 Chair)

Merit Committee, 2016, 2022, 2026
Executive Committee, 2014-2015, 2018-2019
Graduate Committee, 2014

Hiring, mentoring, and promotion committees

Greenhouse Manager Search Committee, 2016, 2019, 2025
Evans Mentoring Committee, Fall 2020-present
Renfrow Reappointment Committee, Fall 2021
A. Quandt Mentoring Committee, Fall 2020-2021
Taylor Reappointment Committee, Fall 2019
Resasco Interview Committee, Spring 2018
Carpenter Reappointment Committee, Fall 2016
Population Geneticist Search Committee, 2014-2015

Ad hoc committees and other service

Budget Committee, 2025-present
AI Committee, 2025-present
Botany Curriculum Committee, 2025-present
Academic Review & Planning Advisory Committee (ARPAC), 2018-2019
Aesthetics Committee, 2017-2022
Faculty meeting scribe, 2016-2019
Greenhouse Committee, 2014-2021, Greenhouse contact, 2024 onward

School of Biological Sciences, University of Nebraska-Lincoln

Faculty Search Committee for Evolutionary Biologist, 2013
Greenhouse Management Committee, 2012-2013
Integrative Evolutionary Biologist Hiring Committee, 2012
Life Sciences Course Development Committee, 2012-2013
Departmental Curriculum committee, 2011-2013
Biology Club Faculty Advisory Board, 2011
Strategic Hiring Task Force, 2011

OUTREACH

2026 BVSD Dare to Dream Career Week, Guest Speaker at Mesa Elementary
Skype-A-Scientist to the bilingual science classroom of Micaela Balcaza at the California iInspire Academy elementary school in Orange, California, 2 virtual visits pending

2025 CU Science Discovery Mentor for M. Ogilvie and S. Hughes
Presenter at EBIO Greenhouse open house for CU Miramontes Arts and Sciences Program (MASP) Science Bound students

2024 Presenter at EBIO Greenhouse open house for CU Miramontes Arts and Sciences Program (MASP) Science Bound students
Científico Latino Graduate School Mentor (for S. Frydenlund), provided review of applications and mock interview
SSB Mentor for PhD student Uhunwa Precious Igho-Osagie, University of Minnesota

2022 Bilingual mentor for one postdoctoral fellow at Evolution 2022
Mentor for Girls in STEM, AHA STEM Goes Red Annual Conference, Boulder, CO
SMBE Virtual Lab Meeting Trainer for Zheng Li, graduate student at Beijing Normal Univ.

2021 Science night presenter, CUUB program, CU Boulder
SSE Faculty mentor for four students at virtual Evolution 2021
Bilingual mentor for one postdoctoral fellow at virtual Evolution 2021

	EvoAlly conduct moderator for virtual Evolution 2021
2020	Científico Latino Graduate School Mentor (mentees M. Vetter, UW-Eau Claire), provided review of applications and mock interviews
2019	Científico Latino Graduate School Mentor (mentees B. Fitzwater, MTSU; J. Lee, UCLA; J. Rodriguez, CSU-LA), provided review of applications and mock interviews
2018	Presenter at Girls and Science Event at the Denver Museum of Nature and Science (with ca. 8000 attendees).
2017	Evolution Keynote Speaker, Teaching Controversial Science Topics Workshop for middle and high school teachers, CU EBIO Department
	Presenter, Party for the Planet, CU Museum Family Fun Day, Parker, CO
	Presenter, Nano Day at the Boulder Public Library, sponsored by CU Science Discovery
	Invited speaker for public lecture for Darwin Day Celebration sponsored by the University of Tennessee-Knoxville
2016	Interview with biotechnology class at Overland High School (Aurora, CO) organized by teacher Ashley Atwell
	Family Day, "Catch Me if You Can: How plants and animals chase each other through evolution" Theme, CU Museum of Natural History. Presenter. 200 visitors.
2014	Family Day, "Fascinating World of Fruit" Theme, CU Museum of Natural History. Organizer. 140 visitors.
	Family Day, "Bugs and Blooms" Theme, CU Museum of Natural History. Presenter. 110 visitors.
	Plants and Pigments Activities (designed and presented). Boulder Farmer's Market, CU Museum of Natural History Booth. 361 visitors.
2013	Panelist, UNL Women in Science Conference for high school students, Lincoln, NE
2012	"Sunday with a Scientist", Designed and organized K-12 Fruit Biology Event (including 6 graduate and undergraduate presenters), University of Nebraska State Museum; Attracted 175 visitors
	Fruit Biology presentation at AppleJack Festival, Kimmel Research & Education Center, Nebraska City, NE. Co-organized with S. Russo; Attracted ~400 visitors
2011	"Sunday with a Scientist", Designed and organized K-12 Fruit Biology Event (including 8 graduate and undergraduate presenters), University of Nebraska State Museum; Attracted 194 visitors
	Plant Molecular Biology Hands-On Lab (designed and presented), Northeast Upward Bound Program. 20 high school students participated.
2009	DNA Day Ambassador, North Carolina Public Schools
2008	School Days Presenter, Durham Middle Schools, Durham, NC
2007	Science Day presenter, Durham Elementary School System, Durham, NC
2006	Darwin Day Volunteer, University of Wisconsin-Madison
2004-2006	Evolution Initiative Coordinating Committee, University of Wisconsin-Madison
2002-2003	Ways of Knowing Research Exploration Host (for undergraduates), Center for Biology Education, UW-Madison