

Erin A. Manzitto-Tripp
CURRICULUM VITAE
September 2026

PRESENT POSITION

Associate Professor, Department of Ecology & Evolutionary Biology
Curator of Botany (COLO Herbarium), Museum of Natural History
University of Colorado—Boulder, 2013 – present

ADDRESS: University of Colorado, Museum of Natural History &
Department of Ecology and Evolutionary Biology & Museum of Natural History
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RESEARCH INTERESTS: systematic biology, molecular phylogenetics, plant and lichen biodiversity, taxonomy, and nomenclature, evolutionary genomics, tropical biology, pollination ecology, biochemical evolution, conservation biology, biogeography, paleontology

EDUCATION

2008-2012 Postdoctoral Researcher, Rancho Santa Ana Botanic Garden
2003-2008 Ph.D., Dept. of Ecology & Evolutionary Biology, Duke University
Dissertation: Systematics & Pollination System Evolution in *Ruellia* (Acanthaceae)
1999-2002 B.A. (*cum laude*), University of North Carolina, Asheville, 1999-2002
Undergraduate Thesis: Plant Diversity and Biogeography of the Upper Potaro Watershed, Tepui Highlands of Guyana

PREVIOUS POSITIONS

2009-2012 NSF-Funded Postdoctoral Researcher, Rancho Santa Ana Botanic Garden
2008-2009 Fletcher Jones Postdoctoral Fellow, Rancho Santa Ana Botanic Garden
2008-pres. Research Associate, Academy of Natural Sciences of Philadelphia
2007-2010 Teaching Assistant, Duke University (Bryology, Plant Communities of North Carolina, Plant Diversity, Organismal Evolution, Intro to Biology)
2005-2006 Research Assistant, NSF-Funded Grant, Fagaceae Macroevolution
2002-2003 Flora of Pennsylvania Intern, Academy of Natural Sciences and Morris Arboretum of the University of Pennsylvania
2002-2003 Undergraduate Teaching Assistant, Zoology
2001-2013 Expedition Leader and Plant Collector, Tepui Highlands, Smithsonian Institute & National Geographic, Biological Diversity of the Guianas Program

EXTRACURRICULAR QUALIFICATIONS

2019-pres. Airline Transport Pilot / Airline Captain (FAA Commercial License #4048627)

GRANTS AND FELLOWSHIPS (small grants <\$2,000 excluded)

2026	Pending: Bureau of Land Management , Lichens-Guided Discovery for Species Recovery: Expanding Known Populations of BLM Special Status Plants Towards Proactive Conservation and Recovery Planning of Rare Plants in Colorado, New Mexico, and Utah. Lead PI: Erin Manzitto-Tripp , CoPI: Jacob Watts (COLO). \$999,864.
2026	Pending: Bureau of Land Management , Lichens of Northern New Mexico—An Inventory: Understanding the Biodiversity of Key Habitat Quality Indicators to Enable Effective Land Management in a Multi-Use Landscape. Lead PI: Erin Manzitto-Tripp , CoPI: Jacob Watts (COLO). \$794,319.
2026	Declined [High Priority for Funding, resubmitting in Sept 2026], National Science Foundation , PurSUI: Discovery of a Biota: Lichens of the Southern Rocky Mountains: Integrating Taxonomy, Traitspace, and Niche Data to Reveal Drivers of Distributions and Range Sizes. Lead (Sole) PI: Erin Manzitto-Tripp. Requested Budget: \$1,063,594.
2026	Declined [Medium Priority for Funding, resubmitting in Oct 2026]: National Science Foundation , Collaborative Research: FOREST: Facilitating Open Research, Exploration, and AI-Assisted Specimen Digitization of the Americas. Lead PI: Erin Manzitto-Tripp (w/ 29 other university, museums, and botanical gardens). Requested Budget: \$3,566,122.
2025	Boulder Open Space & Mountain Parks : Small grant to facilitate publication of Lichen Flora of Boulder's OSMP. CoPI: Erin Manzitto-Tripp. \$2500.
2025	Associate Professor Growth Grant, University of Colorado : Comprehensive inventory of the lichens of Colorado through extensive fieldwork and genetic research. PI: Erin Manzitto-Tripp. \$3,400.
2024-2025	College Scholar Award, University of Colorado : Discovery of a new biota: a comprehensive inventory of the lichens of Colorado. PI: Erin Manzitto-Tripp. Semester Teaching Release.
2024	Joint Genome Institute : Engineering drought-tolerant pennycress via loss-of-function alleles in an aridity extremophile, <i>Petalidium</i> (Acanthaceae). PI: Erin Manzitto-Tripp. In-kind sequencing of ~10 TB of whole genome and metabolome data.
2024	Renewable and Sustainable Energy Institute (RASEI) : Nature's oldest timekeepers and environmental sentinels: a long-term study to reveal the mysteries hidden within ancient slow-growing lichen communities in the Front Range using time-lapse imaging and AI. PI Jeffrey Cameron. CoPI: Erin Manzitto-Tripp (+3 others). \$35,000.
2023-2025	Indianapolis Zoological Society : Field Exploration of 10 Rare Lichens in the Southern Rocky Mountains and Strategies for Conservation Planning and Action. PI: Erin Manzitto-Tripp. \$25,000.
2023-2024	Boulder Open Space & Mountain Parks : Lichen Community Assembly and Physiological Constraints Throughout BoCo Open Space. PIs: Jacob Watts & Erin Manzitto-Tripp. \$8,500.
2023-2024	Boulder County Nature Association : Lichen Inventory of the Indian Peaks Wilderness, Roosevelt National Forest—Towards a Complete Inventory of the Lichens of Colorado. PIs: Seth Raynor & Erin Manzitto-Tripp. \$4,000
2023-2024	International Association of Plant Taxonomists, Biodiversity Challenge Grant : The Taxonomic, Phylogenetic, and physiological diversity of lichen-forming fungi and their photosynthetic symbionts across the Rocky Mountains of Colorado, USA. PIs: Jacob Watts, Seth Raynor, & Erin Manzitto-Tripp. \$3,500

- 2023-2024 **Indian Peaks Wilderness Association:** Lichen Inventory of the Indian Peaks Wilderness, Roosevelt National Forest—Towards a Complete Inventory of the Lichens of Colorado. **PIs: Seth Raynor & Erin Manzitto-Tripp.** \$2,000
- 2021-2024 **National Science Foundation,** Digitization TCN: Collaborative Research: Bringing Asia to digital life: mobilizing underrepresented Asian herbarium collections in the US to propel biodiversity discovery. **Lead PI (Univ. Colorado): Erin Tripp.** Additional Collaborating PIs: Dina Clark (COLO), Ryan Allen (COLO). Overall TCN PI: Charles Davis (Harvard University). Award #2101846 (COLO). **Amount: \$434,103 (COLO only).**
- 2021-2025 **National Science Foundation,** Digitization TCN: Collaborative Research: Building a global consortium of bryophytes and lichens: keystones of cryptobiotic communities (GLOBAL). **PIs (Univ. Colorado): Erin Tripp, Dina Clark, Ryan Allen (COLO).** Overall TCN PI: Jessica Budke (University of Tennessee). Award #2001427 (COLO). **Amount: \$230,682 (COLO only).**
- 2019-2022 **Fulbright Global Scholars Fellow,** Drivers of Neotropical Diversification in the Species-Rich Plant Genus *Ruellia*, with Emphasis on the Brazilian Cerrado Biodiversity Hotspot. Local Host: Rosane Colevatti, Universidade de Goiania. **Amount: \$20,000.**
- 2018-2024 **National Science Foundation,** Collaborative Research: New World *Justicia* s.l.: A Microcosm for Understanding Covariation of Floral Traits and Pollinators in a Phylogenetic Context. Lead PI (Rancho Santa Ana Botanic Garden): Carrie Kiel; **Lead PI (Univ. Colorado): Erin Tripp.** Additional Collaborating PIs: Lucinda McDade (Rancho Santa Ana Botanic Garden) and Amanda Fisher (California State University, Long Beach). Award #s 1754493 (COLO) & 1754845 (RSABG). **Amount: \$300,441 (COLO only).**
- 2017-2022 **National Science Foundation,** Advancing Digitization of Biodiversity Collections, Digitization TCN: Collaborative Research: Using Herbarium Data to Document Plant Niches in the High Peaks and High Plains of the Southern Rockies—Past, Present, and Future. **Lead PI: Erin Tripp** (w/ lead CoPIs Dina Clark & Ryan Allen; University of Colorado). Award #1702516. **Amount: \$2,872,000 (COLO portion: \$1,585,917).** Large-scale collaboration involving 38 partnering institutions (universities, botanical gardens, national parks, Native American Nations).
- 2016-2020 **National Science Foundation,** Dimensions of Biodiversity, Collaborative Research: Biodiversity Gradients in Obligate Symbiotic Organisms: A Case Study in Lichens in a Global Diversity Hotspot. **Lead PIs: Erin Tripp & James Lendemer** (New York Botanical Garden). Co-PIs: Nolan Kane, Christy McCain (University of Colorado). Award #s 1542629 & 1542639. **Amount: \$1,794,031 (COLO portion: 1,035,332).**
- 2016 **Boulder County Open Space:** Partial Inventory of the Lichens of White Rocks Niwot, Colorado. **Sole PI: Erin Tripp.** \$2,310.
- 2014-2018 **National Science Foundation,** Collaborative Research: Understanding Constraints on Floral Evolution: A Phylogenetic Approach to Comparative Anthocyanin Evolution in *Ruellia* (Acanthaceae). **Lead PI: Erin Tripp;** Collaborating PI: Lucinda McDade (Rancho Santa Ana Botanic Garden). Award #s 1354963 (COLO) & 1355138 (RSABG). **Amount: \$856,289 (COLO portion: 499,989).**
- 2014-2015 **City of Boulder, Open Space and Mountain Parks:** Lichen Inventory of White Rocks Open Space, Boulder, Colorado. **Sole PI: Erin Tripp.** \$4,550.
- 2009-2013 **National Science Foundation:** Broad to Fine Scale Phylogenetic Pattern, Character Evolution, and Diversification in *Ruellieae* (Acanthaceae). **Lead PI: Erin Tripp;** Co-PI: Lucinda McDade (Rancho Santa Ana Botanic Garden). Award #0919594. **Amount: \$540,505.**

- 2012-2013 **Great Smoky Mountains Conservation Association:** Lichen Diversity, Ecology, and Conservation in Great Smoky Mountains National Park. Lead Pls: Erin Tripp & James Lendemer (Rancho Santa Ana Botanic Garden & New York Botanical Garden), \$5,000.
- 2012-2013 **Smithsonian Institution:** Plant and Lichen Diversity of Kamakusa Tepui, Western Guayana. Lead Pl: E. Tripp. \$4,000 for expeditionary research.
- 2011-2012 **Great Smoky Mountains National Park, Tallassee Foundation:** Lichens of the Exposed Limestone Bluffs of Great Smoky Mountains National Park. Lead Pls: E. Tripp & J. Lendemer (Rancho Santa Ana Botanic Garden & New York Botanical Garden), \$2,400.
- 2008-2009 **Society of Systematic Biologists, Mini-PEET Training Award:** Scripts and Lips: Training in Microlichen Taxonomy and Identification Through Study of Eastern North American Graphidaceae. Lead Pl: E. Tripp. Co-Pls: R. Harris & J. Lendemer (New York Botanical Garden). \$2,750.

Graduate School and Earlier

- 2007-2008 Duke University: Semester Research Fellowship. \$8,500.
- 2006-2008 National Science Foundation, Dissertation Improvement Grant: Systematics and Pollination System Evolution in *Ruellia* (Acanthaceae). Lead Pl: P. Manos. Co-Pl: E. Tripp (Duke University). \$11,910.
- 2006-2007 American Philosophical Society, Lewis and Clark Grant: Systematics and Pollination Syndrome Transitions in the Species-Rich Genus *Ruellia* (Acanthaceae). \$3,800.
- 2006-2007 Garden Club of America, Tropical Botany Award: Systematics of *Ruellia*: An Examination of Evolutionary Relationships Within a Species-Rich Genus. \$5,500.
- 2006-2007 Society of Systematic Biologists, Graduate Student Award: Systematics and Floral Evolution in *Ruellieae* and *Ruellia* (Acanthaceae). \$1,400.
- 2006-2007 American Society of Plant Taxonomists, William R. Anderson Award. \$1,000.
- 2006-2007 Duke University, International Travel Award. \$1,500.
- 2006-2007 Academy of Natural Sciences, Summer Fellowship. \$3,600.
- 2005-2006 Sigma Xi, Graduate Research Award: Patterns of Reproductive Isolation Across Multiple Sister Taxon Pairs in *Ruellia* (Acanthaceae). \$1,300.
- 2005-2006 Organization for Tropical Studies: Tropical Ecology Course Participant. \$2,000.
- 2005-2006 Latin American Studies, Graduate Research Award: Pollination Syndrome Transitions in *Ruellia* (Acanthaceae): Are Specialized Forms Evolutionary Dead-Ends? \$650.
- 2004-2005 Society for Integrative and Comparative Biology, Graduate Research Award: Pollination Syndrome Transitions in *Ruellia* (Acanthaceae). \$1,000.
- 2004-2005 Duke University, Dept. of Biology Grants In Aid of Research. \$1,000
- 2004-2005 National Science Foundation, Graduate Research Fellowship: Honorable Mention.
- 2003-2004 Sackler Conference on Speciation, Funded Participant. \$300.
- 2003-2004 Mellon Foundation, Semester Fellowship. \$8,000.
- 2003-2004 Mellon Foundation, Research Grant. \$1,000.

HONORS AND AWARDS

- 2011 American Society of Plant Taxonomists, George R. Cooley Award, Best Presentation by a Young Systematist, Annual Botany Conference (St. Louis, MO)
- 2006 American Society of Plant Taxonomists, William R. Anderson Award, Top Award to Graduate Student in Plant Systematics, Annual Botany Conference (Chico, CA)

PUBLICATIONS

**indicates undergraduate student author

* indicates graduate student or post-doctoral author

[as indicated since hire date at Univ Colorado, 7 Jan 2013]

Books

4. **Tripp EA**, Lendemer JC. 2020. *Field Guide to the Lichens of Great Smoky Mountains National Park*. With illustrations by Bobbi Angell. University of Tennessee Press, 660 p.
3. **Tripp EA**, Luján M*. 2018. Venezuelan *Ruellia*: A Monograph. *Memoirs of the New York Botanical Garden*, 179 p.
2. **Tripp EA**. 2016. *Field Guide to the Lichens of White Rocks Open Space*. University Press of Colorado, Boulder, Colorado, 170 p.
1. Lendemer JC*, Harris RC, **Tripp EA**. 2013. *Lichens and Lichenicolous Fungi of Great Smoky Mountains National Park*. *Memoirs of the New York Botanical Garden*, New York Botanical Garden Press: Bronx, New York, 260 p.

Chapters in Books

3. Kaminsky L, Raynor S, Hodges M, Rosentreter R, DeBolt A, **Manzitto-Tripp EA**. In Press. *Lichens of the North American Coastal Plain*. Apple Academic Press, Palm Bay, FL, USA.
2. Dexter KG, Swanepoel W, Loiseau O, Darbyshire I, Nanyeni L, Maiato Gonçalves F, Lages F, Chase F, **Manzitto-Tripp EA**. 2023. High endemism of the genus *Petalidium* (Acanthaceae) in the highlands and escarpments of Angola and Namibia in: *Monograph on Endemism in the Highlands and Escarpments of Angola and Namibia* (eds: Mendelsohn JM, Huntley BJ, Vaz Pinto P). Ongava Research Centre, Namibia.
1. Phillipson PB, Andriamahefarivo L, Callmander M, Daniel TF, Darbyshire I, Kiel CA, Letsara R, McDade LA, **Manzitto-Tripp EA**. 2022. Acanthaceae in: *The New Natural History of Madagascar* (Goodman SM, ed.). Princeton University Press, Princeton, NJ.

Peer-Reviewed Articles

135. Fernandes UG, da Silva FA, Indriunas A, Sartin RD, **Manzitto-Tripp EA**. In press. *Ruellia kameyamae*, a new species of *Ruellia* sect. *Strobiliformes* and the first representative of the section from Brazil. *Phytotaxa*.
134. Watts J*, Raynor S*, Tsai YHE*, Lendemer J, **Manzitto-Tripp EA**. In Press. Trait syndromes reveal emergent groups of North American lichens. *Ecosphere*.
133. Clark E*, Watts J*, Chaves M, **Manzitto-Tripp EA**. In Press. The role of pseudocyphellae and thallus traits in modulating water relations of the lichen *Crocodia aurata* (Ach.) Link (Peltigeraceae) across a moisture gradient in a Costa Rican premontane tropical forest. *The Lichenologist*.
132. Van der Niet T, Johnson SD, Cozien RJ, Wootton LM, Pauw A, **Manzitto-Tripp EA**, Muchhala N. In Press. Darwinian paradigm not debunked by fast-evolving cactus flowers. *Biology Letters*.
131. Graves S*, Karnauskas, K, **Manzitto-Tripp EA**. In Press. Future projections of climate-driven tropical flowering phenology. *Environmental Research Communications*.
130. Sharples MS*, Mitrenina E, **Manzitto-Tripp EA**, Wang W, Erst A. 2026. Phylogenomic and chromosomal evidence help clarify relationships within the geographically widespread genus *Halerpestes* (Ranunculaceae). *Botany Letters*.
129. Watts JL*, Medina N, Kiel CA, Luján M, Smith SD, **Manzitto-Tripp EA**. 2026. Flowers occupy color-space extremes: an anthocyanin-derived theoretical floral color-space approach. *American Journal of Botany* 2026: e70149.
128. Graves S*, **Manzitto-Tripp EA**. 2026. Changes in temperature and precipitation drive shifts in mean flowering timing of tropical plants from 1960–2021 across seven locations. *Biology Open* 15: 1–10.

127. Graves S*, **Manzitto-Tripp EA**. 2026. Observing shifts in global tropical flowering phenology. *PLoS ONE* 21: e0342105.
126. Knudsen K, Kocourková J, Kondrysová E, Jedličková, Hollinger J, Noell N, Leavitt S, **Manzitto-Tripp EA**, Watts J. 2025. Five new species of Acarosporaceae (Acarosporales, Lecanoromycetes) from southwestern North America. *Herzogia* 38: 405–427.
125. Raynor S*, Watts J*, **Manzitto-Tripp EA**. 2025. New and noteworthy reports on Colorado lichens and lichen allies, 4: *Polycauliona pancakea*, a new species to science from the southern Rocky Mountains. *The Bryologist* 128: 556–566.
124. Loeffelholz JD*, Raynor S*, Morris ER, **Manzitto-Tripp EA**, Miller WR. 2025. Tardigrades of North America: more new records of occurrence for species of green tardigrades (Heterotardigrada, Echiniscoidea, Echiniscidae, *Viridiscus*). *Natural History Sciences* DOI:10.4081/nhs.2025.898
123. Swanepoel W, Dexter KG, Adamo M, Van Wyk AE, **Manzitto-Tripp EA**. 2025. *Petalidium saxatile* (Acanthaceae), a new species from Namibia. *Phytotaxa* 716: 161–174.
122. **Manzitto-Tripp EA**, Watts J*. 2025. The Thin Horizon of a Plan is Almost Clear: Towards a Lichen Biodiversity Inventory of the Southern Rocky Mountains. *Phytotaxa* 712: 207–229.
121. **Manzitto-Tripp EA**, Watts J*. 2025. *Ochrolechia raynori*, a new lichen species from the southern Rocky Mountains (Colorado, USA) and key to asexually reproducing *Ochrolechia* in western North America. *Wild* 2025: 2, 28.
120. **Manzitto-Tripp EA**, Watts J*, Raynor S*. 2025. New and noteworthy reports of lichens and allied fungi to Colorado, including descriptions of two species new to science. *Botanical Research Institute of Texas* 19: 389–416.
119. McCain CM, **Manzitto-Tripp EA**, Vagle G*, Lendemer JC. 2025. Importance of tree diversity and other abiotic and biotic drivers of lichen species richness in a threatened mountainous biodiversity hotspot. *The Bryologist* 128: 522–540.
118. Su H*, Jiang H*, Stewart CA*, Clark D, Liu S*, **Manzitto-Tripp EA**. 2025. Depth effects of trail development on herbaceous plant diversity and stress responses through flavonoid accumulation. *Stress Biology* 5: (2025).
117. Watts JL*, Raynor SJ*, **Manzitto-Tripp EA**. 2025. Character evolution in *Heterodermia* s.l. (Physciaceae; Caliciales) and two new species from the southern Rocky Mountains, USA. *Phytotaxa* 698: 61–81.
116. Loeffelholz JD*, Raynor S, Sánchez-Moreno S, Momeni S, **Manzitto-Tripp EA**. 2025. Tardigrada and Nematoda associations with lichen and bryophyte habitats from Southwest Wisconsin state parks, universities, and private land. *Biogeographia-The Journal of Integrative Biogeography* 40: a045.
115. Boldgiv B,**Manzitto-Tripp EA**, Taylor W (26 authors). 2025. Global natural history infrastructure requires international solidarity, support, and investment in local capacity: lessons from Mongolia. *Proceedings of the National Academy of Sciences of the USA* 122: e241123122.
114. Harris J*, Murphy TH, **Manzitto-Tripp EA**, Medina N, Irick Z, Estes LD, Smith SD. 2024. Phylogenetic relationships of a North American radiation of *Clematis* (Ranunculaceae; Leatherflowers). *Aliso* 42: 31–40.
113. Watts JL*, Raynor SJ*, Li Y**, Meier R**, Cook C**, Casini G**, Chadwick E**, **Manzitto-Tripp EA**. 2024. *Lecanora exspersa*: a new lichen record for North America and a key to sorediate *Lecanora* (Lecanoraceae) in western North America. *The Bryologist* 127: 427–440.
112. Vagle GL*, Lendemer JC, **Manzitto-Tripp EA**, McCain CM. 2024. Patterns and predictors of lichen rarity in a biodiversity hotspot. *Biodiversity and Conservation* 01 March 2024.
111. Boggess LM, McCain CM, **Manzitto-Tripp EA**, Pearson SM, Lendemer JC. 2024. Lichen species richness decreases with increasing anthropogenic disturbance. *Biological Conservation* 293: 110598.

110. Swanepoel W, Wyk AE, Dexter KG, **Manzitto-Tripp EA**. 2024. *Petalidium etendekaense* (Acanthaceae), a new species from Namibia, with notes on the taxonomic identity of *P. glutinosum*. *Phytotaxa* 636: 35-47.
109. Fernandes UG, **Manzitto-Tripp EA**, Medina N, Simão-Bianchini R, Kameyama C. 2024. Novelty in *Ruellia* L. (Acanthaceae) for the Brazilian Cerrado. *Systematic Botany* 49: 1-36.
108. Sharples, MS*, **Manzitto-Tripp EA**. 2024. Origins of cryophilous lineages: evidence from the cosmopolitan angiosperm genus *Stellaria*. *Botanical Journal of the Linnean Society* 141: 191-213.
107. Darbyshire I, Tchamba J, **Manzitto-Tripp EA**. 2023. A synopsis of *Ruellia* (Acanthaceae) in Angola, including two species new to science. *Rheedeia* 33: 246-269.
106. Raynor SJ*, Watts J*, **Manzitto-Tripp EA**. 2023. New and noteworthy reports on Colorado lichens and lichen allies, 3: *Sarea cirrhendocarpa*, a species new to science from the southern Rocky Mountains. *Phytotaxa* 83: 454-461.
105. **Manzitto-Tripp EA**, Raynor SJ*, Anderson Stewart CR*. 2023. Diversity of lichens in northern Alabama yields evidence of an exceptionally diverse biota. *Southeastern Naturalist* 22: 170-191.
104. Loiseau O, **Manzitto-Tripp EA**, Swanepoel W, Dexter KG. 2023. Net diversification rates of the woody plant genus *Petalidium* (Acanthaceae) are highest in the ancient and arid Namib Desert. *Frontiers in Ecology & Evolution* 11: 1193728.
103. **Manzitto-Tripp EA**, Daniel TF. 2023. Phylogeny and revised classification of New World *Ruellia*. *Taxon* 72: 1034-1056.
102. Kiel CA, **Manzitto-Tripp EA**, Fisher AE, Porter JM, McDade LA. 2023. Remarkable variation in androecial morphology is closely associated with corolla traits and likely pollinators in Western Hemisphere Justicioids (Acanthaceae: Justicieae). *Annals of Botany* 132: 43-60.
101. Diaz V*, **Tripp EA**. 2023. A synopsis of the genus *Xanthoparmelia* in Colorado. *Opuscula Philolichenum* 22: 1-40.
100. Koch N*, Lendemer J, **Manzitto-Tripp EA**, McCain CM, Stanton D. 2023. Carbon-concentrating mechanisms are a key trait in lichen ecology and distribution. *Ecology* 2023: e4011.
99. Daniel TF, **Manzitto-Tripp EA**, Ezcurra C. 2023. *Ruellia eriocalyx* (Acanthaceae, Ruellieae), a pyrophilous species from Central Brazil. *Proceedings of the California Academy of Sciences* 67: 395-399.
98. Raynor SJ*, Kesler J, Allen JR, **Manzitto-Tripp EA**. 2023. New and noteworthy reports on Colorado lichens and lichen allies, 2: *Biatoropsis hirtae* and *B. minuta*. *Western North American Naturalist* 83: 454-461.
97. Gaier A*, **Manzitto-Tripp EA**, Resasco J. 2023. Floral visitors of a Colorado endemic chasmophyte, *Telesonix jamesii* (Saxifragaceae). *Western North American Naturalist* 83: 103-113.
96. **Manzitto-Tripp EA**, Luján M, Clark DA. 2022. *Ruellia whitneyana*, a new species of Acanthaceae from Bolivia. *Systematic Botany* 47: 1107-1111.
95. Swanepoel W, **Manzitto-Tripp EA**. 2022. *Petalidium sesfonteinense* (Acanthaceae), a new species from the Kaokoveld, Namibia. *Phytotaxa* 549: 127-135.
94. Arias J, **Manzitto-Tripp EA**, Kiel CA, McDade LA, Fisher AE. 2022. An evolutionary framework of Acanthaceae based on transcriptomes and genome skims. *Systematic Botany* 47: 716-728.
93. **Manzitto-Tripp EA**, Lendemer JC, McCain CM. 2022. Most lichens are rare, and degree of rarity is mediated by lichen traits and biotic partners. *Diversity and Distributions* 28: 1810-1819.
92. Darbyshire I, Kiel CA, Chase FM, **Manzitto-Tripp EA**. 2022. The demise of *Monechma*: new combinations and a new classification in the resurrected genera *Meiosperma* and *Pogonospermum* (Acanthaceae). *Kew Bulletin* 77: 249-270.
91. Zhuang Y*, **Manzitto-Tripp EA**. 2022. Co-expression network analyses reveal the molecular evolution and architecture of genes associated with anthocyanin biosynthesis in petals of *Ruellia* (Wild Petunias; Acanthaceae). *BMC Ecology & Evolution*: 22: 27.
90. Warsh S*, Schroeter I., **Manzitto-Tripp EA**. 2023. A floristic inventory of two Boulder County Open Space parcels: Heil Valley Ranch and Hall Ranch, Colorado, U.S.A. *Madroño* 69: 263-285.

89. Lendemer JC, Bungartz F, Morse C, **Manzitto-Tripp EA**. 2022. *Sarcogyne similis* (Acarosporaceae) produces psoromic acid and is confirmed to be widespread in North America. *The Bryologist* 125: 91-101.
88. **Manzitto-Tripp EA**, Darbyshire I, Daniel TF, Kiel CA, McDade LA. 2021. Revised classification of Acanthaceae and worldwide dichotomous keys. *Taxon* 71: 103-153.
87. Keepers K*, Pogoda C*, Lendemer J, Kane, N, **Manzitto-Tripp EA**. 2021. Author response to Tagirdzhanova et al., 2021, titled "Lichen fungi do not depend on the alga for ATP production: a comment on Pogoda et al. (2018). *Molecular Ecology* 17: 4160-4161.
86. Darbyshire I, **Manzitto-Tripp EA**, Chase FM. 2021. A taxonomic revision of Acanthaceae tribe Barlerieae in Angola and Namibia. Part 2. *Kew Bulletin* 76: 127-190.
85. Fernandes UG*, **Manzitto-Tripp EA**, Simão-Bianchini R, Kameyama C. 2024. Novelty in *Ruellia* L. (Acanthaceae) for the Brazilian Cerrado. *Systematic Botany* 49: 1-36.
84. Sharples M*, Bentz PC**, **Tripp, EA**. 2021. Evolution of apetal in the cosmopolitan genus *Stellaria*. *American Journal of Botany* 108: 869-882.
83. England, KE, Lendemer JC, **Tripp EA**. 2021. *Rockefellerella crossophylla* (Pannariaceae) rediscovered in Alabama. *Opuscula Philolichenum* 20: 1-6.
82. **Tripp EA**, Dexter KG, Stone H**. 2021. Reproductive character displacement in a diverse genus of tropical plants (*Ruellia*: Acanthaceae). *Ecology & Evolution* 11: 4719-4730.
81. **Tripp EA**, Darbyshire I. 2020. *Mcdadea*: a new genus of Acanthaceae endemic to the Namib Desert of southwestern Angola. *Systematic Botany* 45: 200-211.
80. Hammel PB, McDade LA, **Tripp EA**. 2020. *Ruellia*, pp. 140-158 in: *Manual de Plantas de Costa Rica, Vol IV, Part I* (eds. Hammel BE, Grayum MH, Herrera C, Zamora N). Monographs in Systematic Botany from the Missouri Botanic Garden, Vol 137. Missouri Botanic Garden Press, St. Louis, MO.
79. Beeler RB*, Sharples M*, **Tripp EA**. 2020. Introgression among three western North American bilberries (*Vaccinium* Section *Myrtillus*). *Systematic Botany* 45: 576-584.
78. Hansen CJ, Lendemer JC, **Tripp EA**, Allen JL, Buck VR, England K, Harris RC, Howe NM, McMullin RT, Waters DP. 2020. Lichens and allied fungi of Central Alabama, U.S.A.: survey results from the 26th Tuckerman Workshop. *Opuscula Philolichenum* 19: 36-57.
77. Piatkowski BT, Imwattana K, **Tripp EA**, Weston DJ, Healey A, Schmutz J, and Shaw AJ. 2020. Phylogenomics reveals convergent evolution of red-violet coloration in land plants and the origins of the anthocyanin biosynthetic pathway. *Molecular Phylogenetics & Evolution* 141: 106904.
76. Darbyshire I, Kiel CA, Astroth**, Dexter KG, Chase FM, and **Tripp EA**. 2020. Phylogenomic study of *Monechma* reveals two divergent plant lineages of ecological importance in the African savannah and succulent biomes. *Diversity* 12: 237.
75. **Tripp EA**. 2020. Lucinda A. McDade—recipient of the 2019 Asa Gray Award. *Systematic Botany* 45: 1-3.
74. Braz DM, Azevedo IHF, **Tripp EA**. 2020. A new species and lectotypification in *Ruellia* L. (Acanthaceae) from the southeastern Atlantic Forest, Brazil. *Systematic Botany* 45: 1-6.
73. Malone AI**, Brinda JC, **Tripp EA**. 2020. A survey of the liverworts from Colorado's Comanche National Grassland. *Evansia* 36: 114.
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68. **Tripp EA**, Lendemer JC, McCain CM. 2019. Habitat quality and disturbance drive lichen species richness in a temperate biodiversity hotspot. *Oecologia* 190: 445-457.
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63. Kiel CA, **Tripp EA**. In Press. Acanthaceae. In: *New Manual of Vascular Plants of Northeastern United States and Adjacent Canada*. Ed. R. Naczi. New York Botanical Garden Press.
62. **Tripp EA**, Lendemer JC. 2019. Highlights from 10 years of lichenological research in Great Smoky Mountains National Park: celebrating the United States National Park Service centennial. *Systematic Botany* 44: 943-980.
61. Sharples M*, **Tripp EA**. 2019. RAD sequencing rejects long distance disjunction in *Stellaria* (Caryophyllaceae) and yields support for a new southern Rocky Mountains endemic. *Taxon* 68: 280-296.
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58. **Tripp EA**, Agabani R**, McMullin T. 2018. New and noteworthy reports of Colorado lichens and lichen allies, 1: *Phaeocalicium polyporaum*. *Opuscula Philolichenum* 17: 362-367.
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55. Brigham LM**, Allende LM*, Shipley GR**, Boyd KC**, Higgins TJ**, Kelly N**, Keepers KG*, Pogoda CS*, Lendemer JC, **Tripp EA**, Kane NC. 2018. Genomic insights into the mitochondria of nine eastern North American *Cladonia* species. *Mitochondrial DNA Part B* 3: 508-512.
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 48. Kleinkopf J**, Clark DA, **Tripp EA**. 2017. Aberrant plant diversity in The Purgatory Watershed of southeastern Colorado and northeastern New Mexico. *Western North American Naturalist* 77: 343-354.
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 44. Zhuang Y*, **Tripp EA**. 2017. The draft genome of *Ruellia speciosa* (Wild Petunias: Acanthaceae). *DNA Research* 1: 179-192 (doi: 10.1093/dnares/dsw054)
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24. **Tripp EA**, Hoagland KE. 2013. Typifying an era in biology through synthesis of biodiversity information. *Taxon* 62: 899-911. **Invited Paper**
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18. **Tripp EA**, Lendemer JC. 2012. (3-4) Request for binding decisions on the descriptive statements associated with *Mortierella sigyensis* (fungi: Mortierellaceae) and *Piomyces cryptodigmaticus* (fungi: Neocallimastigaceae). *Taxon* 61:886-888.
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9. **Tripp EA**, Manos PS. 2008. Is floral specialization an evolutionary dead-end? Pollination system transitions in *Ruellia* (Acanthaceae). *Evolution* 62: 1712-1737.
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5. McDade LA, **Tripp EA**, with assistance from T.F. Daniel. 2007. Acanthaceae of La Selva Biological Station, Costa Rica. In: La Flora Digital de La Selva. pdf available at <http://clade.acnatsci.org/mcdade/>
4. **Tripp EA**, Dexter KG*. 2006. *Sabal minor* (Arecaceae): A new northern record of palms in eastern North America. *Castanea* 71: 170-175.
3. **Tripp EA**. 2006. Ruellieae (Acanthaceae). Version 10 Apr 2007. <http://tolweb.org/Ruellieae/> in The Tree of Life Web Project, <http://tolweb.org> (Web Publication).
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1. **Tripp EA**. 2002. Plant diversity and biogeography of the Upper Potaro Watershed in Guyana, South America. *Proceedings of the National Conference for Undergraduate Research 2002*.

Book Reviews

1. **Tripp EA**. 2019. Book Review: *Delmarva Lichens: An Illustrated Manual*. *Castanea*.

Articles Under Review

- Manzitto-Tripp EA**, Watts J*, Raynor S*, McNeill J. In review. Interhemispheric lichen disjunctions revealed by inventory of the southern Rocky Mountains: three species new to North America. *The Lichenologist*.
- Watts J*, Knudsen K, **Manzitto-Tripp EA**. In review. *Trimmatothelopsis rufioccelata* sp. nov. (Acarosporaceae) from the southern Rocky Mountains. *Phytotaxa*.
- Schmidt-Knapik R*.... **Manzitto-Tripp EA**. In review. 100 uses for an herbarium, well actually 143: reassessing the true value of herbaria. *PNAS*.
- Hollinger JP, **Manzitto-Tripp EA**, Raynor SJ*, Boggess L. In review. *Rhizoplaca soredica* (Lecanoromycetes), another rare lichen from the Anakeesta Formation in Great Smoky Mountains National Park. *Castanea*.
- Loeffelholz J, Raynor S*, Boothby T, **Manzitto-Tripp EA**. In review. Tardigrade-lichen associations in the southern Rocky Mountains of Colorado and Wyoming. *Organisms Diversity & Evolution*.
- Hansen CJ, Lendemer JC, England JK, **Manzitto-Tripp EA**. In review. An updated checklist of the lichenized, lichenicolous, and allied fungi of Alabama, U.S.A. *Opuscula Philolichenum*.
- Su, H, Jiang H, Anderson Stewart C, Clark D, Liu S, **Manzitto-Tripp EA**. In review. Depth effects of trail development on herbaceous plant diversity and stress responses through flavonoid accumulation. *Functional Ecology*.
- Rose J, **Manzitto-Tripp EA**. In Review. Spatial attributes limit gene flow in the sympatric species of a diverse Neotropical clade of flowering plants. *American Naturalist*.
- Beckrich K**, **Tripp EA**. In Review. Pollination ecology and reproductive isolation in a sympatric population of *Penstemon virens* and *Penstemon secundiflorus*.

Lutz B, Water R-F, Thamyres A, Chrysler O, Graves S, **Manzitto-Tripp EA**, Collevatti R. In review. Spatial and temporal changes in agricultural landscapes affect genomic diversity in a Neotropical understory shrub. *Journal of Ecology*.

Articles In Preparation

Dexter KG, **Tripp EA**. In Prep. Ten years of data reveal significant directional trends in vegetation changes in a long-term study plot (Great Smoky Mountains National Park).

Books In Preparation

Manzitto-Tripp EA, Darbyshire I, Klaassee E, Kwembeya E. In Prep. The Acanthaceae of Namibia and Angola [for *Flora of Namibia Project*].

Manzitto-Tripp EA. In Prep. *Botanical Travels in a Guyanese Wilderness* [a novel].

Manzitto-Tripp EA, Watts J*, Raynor S*. Field Guide to the Lichens of Colorado.

Manzitto-Tripp EA, Watts J*, Raynor S*. *The Lichen Biota of the Southern Rocky Mountains*

Watts J*, **Manzitto-Tripp EA**. *Field Guide to the Lichens of the Front Range of Colorado*.

SELECTED MEDIA, NEWS ARTICLES, AND NON PEER-REVIEWED WRITINGS

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| 2026 | [forthcoming], Full-length lichen biodiscovery piece by Anne Herbst, Denver's ABC9 News |
| 2026 | The Indigo Girls summer 2026 tour featuring lichen t-shirts and lichen fan swag |
| 2026 | American Society of Plant Taxonomists, <i>Member Spotlight</i> , https://www.instagram.com/p/DW-gpn8ltub/ |
| 2025 | Homepage of The Indigo Girls, Nov 2025, https://www.indigogirls.com/ |
| 2025 | "A CU Boulder Team Found New Lichen Species. They Named them After the Indigo Girls", story by Lauren Antonoff Hart, 24 July 2025, https://www.cpr.org/2025/07/24/cu-new-lichen-species-named-after-indigo-girls/ |
| 2025 | "Colorado Lichenologists Name Discoveries after Indigo Girls and Bring Science Closer to Fine", story by Michael Booth, 24 July 2025, https://coloradosun.com/2025/07/24/cu-boulder-lichenology-naming-indigo-girls-red-rocks/ |
| 2025 | National Public Radio and Colorado Public Radio Instagram post on Indigo Girls Lichens, >30,000 "likes"
https://www.instagram.com/p/DMi4qgIMadw/?igsh=MWVwMnU4dHg3cG5pNw%3D%3D&img_index=1 |
| 2025 | "Lichen Heaven: Smokies Emerges as Research Hub for Understudied Organisms", story by Hannah Early, The Biltmore Beacon, 31 July 2025, https://www.biltmorebeacon.com/outdoor/lichen-heaven-smokies-emerges-as-research-hub-for-understudied-organisms/article_2addf85d-b1de-4f31-8fe6-30af475a7dda.html |
| 2025 | "Lichen Heaven" and Understudied Organisms, story by Hannah Early, Asheville Citizen Times, 19 July 2025, https://www.citizen-times.com/story/news/local/2025/07/19/word-from-the-smokies-lichen-heaven-and-understudied-organisms/85257797007/ |
| 2025 | Why Great Smoky Mountains are "Lichen Heaven", story by Hannah Early, Knoxville News Sentinel, 27 July 2025, https://www.knoxnews.com/story/life/2025/07/23/great-smoky-mountains-are-a-research-hub-for-understudied-organisms/85306580007/ |
| 2025 | "Three New Lichens" with Erin Manzitto-Tripp. https://newspeciespodcast.net/all-episodes/ |
| 2025 | Lichen podcast featured on homepage of American Bryological and Lichenological Society, https://www.abls.org/videos |
| 2019 | Bowers MD, Tripp EA , Lendemer JC. 2019. Lichens to Dye For. <i>Turkey Red Journal</i> . Spring Issue. |
| 2018 | Hogan TM, Tripp EA . 2018. William A. Weber receives ABLS lifetime achievement awards. <i>Evansia</i> 35: 106-108. |

- 2017 *Where Hemlocks Live*, University Press of Colorado, Website Blog, January 2017: <https://upcolorado.com/about-us/news-features/where-hemlocks-live>
- 2017 *The Ruellia Pages*: <https://tripp-report.com/>
- 2018 Scientists Mark 1,000th New Species Discovered in Great Smoky Mountains National Park, *Asheville Citizen Times*, story by Karen Chávez, 18 October 2018: <https://www.citizen-times.com/story/news/local/2018/10/18/new-species-discovered-2018-great-smoky-mountains-national-park-lichens-biodiversity-ecoystem/1669321002/>
- 2018 Some Lichen Fungi Let Genes Go Bye, *Scientific American*, 60 second science, story by Karen Hopkin, 7 March 2018: <https://www.scientificamerican.com/podcast/episode/some-lichen-fungi-let-genes-go-bye/>
- 2018 Great Smoky Mountains National Park's Biodiversity Inventory Reaches 1,000 Species Mark, *National Parks Traveller Newsletter*, story by NPT Staff, 18 October 2018: <https://www.nationalparkstraveler.org/2018/10/great-smoky-mountains-national-parks-biodiversity-inventory-reaches-1000-species-mark>
- 2017 Colorado Public Radio, Colorado Matters Interview w/ Nathan Heffel, <http://www.cpr.org/news/story/the-charm-of-lichens>
- 2017 CU Boulder Today Press Release, <https://www.colorado.edu/today/2017/09/13/researchers-create-digital-archive-rocky-mountain-plants>
- 2015 *Compliments to the Collection Manager: New Species of Lichens From Boulder Honor Tim Hogan and Dina Clark (COLO Herbarium)*, Colorado Native Plant Society Newsletter, *Aquilegia*, Fall 2015
- 2015 84, University of Colorado Museum of Natural History Newsletter
- 2015 Colorado Magazine: Lichen Hunter, <https://www.colorado.edu/coloradan/2015/12/01/inquiry-erin-tripp>
- 2015 CU Connections: Five Questions For Erin Tripp, <https://connections.cu.edu/news/five-questions-for-erin-tripp/>
- 2015 CU Professor Discovers New Lichen Species In Boulder, CU News Center, <http://www.9news.com/story/news/education/2015/06/24/new-lichen-species-boulder/29208795/>
- 2015 Professor Discovers New Lichen Species in the City of Boulder, <https://www.colorado.edu/today/2015/06/24/professor-discovers-new-lichen-species-city-boulder>
- 2014 Liking Lichen Diversity: Great Smoky Mountains National Park, Science Dispatch, by NPS Staff. http://www.nps.gov/grsm/learn/nature/dispatch_lichen.htm
- 2013 National Geographic Magazine: “Islands in the Sky are Hotspots for Biodiversity and Evolution: South America’s Tepui Mesas Reveal Secrets to Scientists”, by B. Howard. <http://news.nationalgeographic.com/news/2013/09/130928-tepuis-pebble-toads-biodiversity-evolution-science/>
- 2013 Colorado Public Radio: “Why Botanical Illustration Still Matters in the Digital Age”, by S. Speier. <https://www.cpr.org/news/story/essay-why-botanical-illustration-still-matters-digital-age>
- 2008 Science Magazine: “Pollinator Plasticity”, by J. Kling. <http://news.sciencemag.org/sciencenow/2008/08/01-02.html>

PROFESSIONAL SOCIETIES

American Society of Plant Taxonomists [life member]
 American Bryological and Lichenological Society [life member]
 Botanical Society of America [life member]
 Colorado Native Plant Society
 International Association of Plant Taxonomists [life member]
 Society of Herbarium Curators [life member]

Society for the Preservation of Natural History Collections
 Society for Systematic Biology
 Society for the Study of Evolution
 Southeastern Biologists

EXTERNAL SERVICE & ACTIVITIES [INCL. ELECTED POSITIONS]

Service

2026-2028	Organizational Committee, The Lichen Conservation Alliance [newly formed and funded consortium of professional lichenologists working to renovate lichen conservation practices in North America]
2026-2028	International Association for Lichenology [IAL], Elected Treasurer
2026	Botany Conference, Code of Conduct Committee
2026	NSF Panel Service, BIO [Ecology & Evolutionary Biology]
2026	Participated in and led week-long lichen ecology and taxonomy training with large consortium of US Forest Service staff, rangers, ecologists, and conservation planners (Manitou Springs Experimental Forest USFS Headquarters)
2026	Currently on ballot for Assistant Treasurer, International Association for Lichenology
2024	Botany Conference, Code of Conduct Committee
2023-2025	Elected Council Member, Society of Systematic Biologists
2022	Botany Conference, Code of Conduct Committee
2022-2024	Society of Herbarium Curators, Past-President & Program Director
2020-2022	Society of Herbarium Curators, President
2019	Society of Herbarium Curators, President-Elect
2018-2021	American Society of Plant Taxonomists, Membership Committee (Chair)
2017	NSF Panel Service, Collections in Support of Biological Research (Nov 2017)
2015	NSF Panel Service, Evolutionary Processes (Oct 2015)
2015	Society of Herbarium Curators, Invitation to stand for officer election [declined owing to full service load]
2014-2017	Council Member [elected], American Society of Plant Taxonomists
2014-2018	Extensive collaboration with Center for Biological Diversity to petition the U.S. Fish & Wildlife service to consider 30 species of North American lichens for federal protection under the Endangered Species Act
2014-current	Editorial Board, <i>Aliso</i>
2012-2022	Nomenclature Editor, <i>TAXON</i>
2012-current	Editorial Committee, <i>Systematic Botany Monographs</i>
2014-2015	Associate Editor, <i>Systematic Botany</i>
2013-2014	Board of Directors [elected], Colorado Native Plant Society
2014-2016	American Society of Plant Taxonomists, Honors Committee (Chair)
2013-2014	American Society of Plant Taxonomists, Publications Award Committee
2009-2011	Curation of USDA PLANTS Database for Acanthaceae
2007-2010	American Society of Plant Taxonomists, Environment and Public Policy Committee (Chair, 2010)
2012	NSF Panel Service, DDIG
1999-2002	General identifications of plants from Guyana Highlands, Smithsonian

Reviewer for Scholarly Journals

Acta Botanica Fennica, *Aliso*, American Journal of Botany, American Naturalist, Annals of Botany, Biological Journal of the Linnean Society, BMC Biology, Botanical Studies, Brittonia, Evolution, Evolutionary Ecology, International Journal of Plant Sciences,

International Journal of Tropical Biology and Conservation (Revista de Biología Tropical), Journal of the Botanical Research Institute of Texas, Kew Bulletin, Molecular Ecology, Molecular Phylogenetics and Evolution, Mycotaxon, New Phytologist, Oecologia, Opuscula Philolichenum, Plant Species Biology, Phytotaxa, Proceedings of the California Academy of Sciences, Smithsonian Contributions to Botany, Southeastern Naturalist, Systematic Botany, Systematic Botany Monographs, Systematic Biology, Taxon, Torrey Botanical Society, and NSF External Reviewer

UNIVERSITY OF COLORADO SERVICE & ACTIVITIES

2026	Field Courses Committee (EBIO)
2025–2026	[2-semester Sabbatical]
2025	Merit Review Committee (Museum)
2025	Graduate Committee (EBIO)
2024	Merit Review Committee (Museum), Chair of Botany Collections Manager Search Committee (Museum), Graduate Committee (EBIO)
2023	Merit Review Committee (EBIO), Melbourne Promotion Committee (EBIO), Greenhouse Committee (EBIO), Chair of Botany Collections Manager Search Committee (Museum)
2022	Merit Review Committee (Museum), Greenhouse Committee (EBIO) Li Tenure Committee (EBIO)
2022-2026	Volunteered to serve on 2 different University leadership search committees, no invitation received
2021	Graduate Committee (EBIO), Greenhouse Committee (EBIO), Research Committee (EBIO)
2020	Merit Review Committee (EBIO)
2018	Merit Review Committee (Museum)
2018	Graduate Committee (EBIO)
2017	Merit Review Committee (EBIO)
2016	Stephanie Mayer, Re-appointment Committee (EBIO)
2015	Assistant Curator of Art Search Committee (Art Museum)
2014-2015	Invertebrate Curator Search Committee (EBIO & Museum)
2013-2014	ARPAC Space and Research Committees (Museum)
2013-current	Greenhouse Committee (EBIO)
2013-2014	Executive Committee (EBIO)

TEACHING

University of Colorado (FCQ Ratings: IR = Instructor Rating and CR= Rating. Both out of 6 Total Points):
 Fall 2026 [College Scholars Award]

Summer 2026	Requested to teach Maymester / Summer course on January 9 th , 2026, but was informed that my proposed course was not within EBIO's scope of budget and that my request was too late [in all prior years, I have submitted this request to teach summer Maymester in January prior to the same summer, and have received approval from prior EBIO Chairs]
2025-2026	[2-semester sabbatical]
Fall 2024	MUSM 5051 / ARTH5929: Collections Management. N=11 students. IR & CR=N/A
Summer 2023	EBIO4560/5560: Colorado Field Botany, N=13 students. IR & CR=N/A.
Fall 2021	EBIO 4520/5520: Plant Systematics

Summer 2021 EBIO 4560/5560: The Lichen Biome.
 Summer 2019 EBIO 4460/5640: Colorado Field Botany, N=13 students, IR=6.0, CR=6.0
 Fall 2018 EBIO 4520/5520: Plant Systematics. N=16 students. IR=5.7, CR=5.3
 Summer 2018 EBIO 4560/5560 / MUSM 6110: The Lichen Biome. N=23 students. IR=5.7, CR=5.6
 Fall 2016 MUSM 5051 / ARTH5929: Collections Management. N=15 students. IR=5.8, CR=5.2
 Fall 2015 EBIO 4520 / 5520: Plant Systematics. N=22 students. IR=5.6, CR=5.1
 Spring 2015 EBIO 6300: Evolutionary Genomics [co-taught with 4 other faculty].
 N=9 students. IR=5.5, CR=6.0
 Fall 2014 MUSM 5051 / ARTH5929: Collections Management. IR=5.4, CR=5.0
 Fall 2013 EBIO 4520: Plant Systematics. N=23 students. IR=5.9, CR=5.5

Rancho Santa Ana Botanic Garden [Claremont Graduate University]:

Fall 2012 Graduate Seminar: Stephen Jay Gould's *Structure of Evolutionary Theory*

Organization for Tropical Studies [OTS]:

2014 Plant Systematics, Faculty Resource Person (Las Cruces Biological Station)

STUDENTS & POSTDOCS

Graduate Students, University of Colorado (Primary Mentees Only)

Jacob Watts (EBIO PhD, 2022-in progress)
 Seth Raynor (EBIO PhD, 2024-in progress)
 Skylar Lynch (EBIO PhD, 2021-2026), finished
 Adele Preusser (Museum Masters, 2022-2025), finished
 Jesse Harris (EBIO PhD, 2016-2024), finished
 Seth Raynor (Museum Masters, 2022-2024), finished
 Carly Anderson (EBIO PhD, 2016-2023), finished
 Mathew Sharples (EBIO PhD, 2013-2020), finished
 Angelia Romano (Museum Masters, 2021-2022), finished
 Justin Williams (Museum Masters, 2019-2021), finished
 Reese Beeler (EBIO Masters, 2017-2019), finished
 Louise Barton (EBIO Masters, 2017-2019), finished
 Sophia Warsh (Museum Masters, 2017-2019), finished
 Vanessa Díaz (Museum Masters 2014-2016), finished

Post-Doctoral Fellows

Jes Persinger (2021-2023)
 Hu Su (2019-present)
 Hi Jiang (2019-present)
 Jeffry Rose (2016-2019)
 Yongbin Zhuang (2015-2017)
 Yi-Hsin Erica Tsai (2013-2016)

INVITED SEMINARS AND SYMPOSIA

2026	US Forest Service, Western North America (especially Region 2), <i>Lichens of the Southern Rocky Mountains</i>
2023	Denver Botanic Garden, Steppe Symposium, <i>Lichens in Aridlands</i>
2022	Tennessee. Native Plant Society, <i>A hotspot for North American Lichens</i>

- 2021 [beginning in 2021, I have chosen to decline numerous external talk invitations in order to prioritize research and productivity, along with professional talks to my academic community at annual conferences along with frequent talks to non-academic audiences]
- 2021 Eastern Washington University, *Biogeography of North American Lichens*
- 2021 University of Minnesota, *Macroecology of North American Lichens*
- 2021 Eastern Washington University, *Macroecology of North American Lichens*
- 2021 Pacific Northwest Lichenologists, Annual Meeting, *Macroecology of North American Lichens*
- 2019 Universidade Federal de Goiania (Dept of Ecology & Evolution), *The North American Lichen Biota: New Ecological Syndromes and Drivers of Diversity and Distributions*
- 2019 Universidade Federal de Goiania (Dept of Ecology & Evolution), *How Many Ways are There to Make A Purple Flower?*
- 2018 Michigan State University (Dept of Biochemistry & Molecular Biology), East Lansing, MI, , *The North American Lichen Biota: New Ecological Syndromes and Drivers of Diversity and Distributions*
- 2018 Michigan State University (Dept of Plant Biology), East Lansing, MI, *How Many Ways are There to Make A Purple Flower?*
- 2018 University of Colombia, New York NY, *forthcoming*
- 2018 Harvard University, Cambridge, MA, "Evidence for Reinforcement in *Ruellia* (Acanthaceae)"
- 2018 Colorado Mycological Society, Denver, CO, "Nearly 6,000 Species of North American Lichens: Distributions, Traits, Ecologies, and New Syndromes"
- 2018 University of Colorado-Denver, Denver, CO, "Diversification and Flower Color Evolution in *Ruellia*: From Genomes to Phenotypes"
- 2018 Great Smoky Mountains National Park, Gatlinburg, TN, "Highlights from 10 Years of Lichenological Research in Great Smoky Mountains National Park"
- 2015 Missouri Botanical Garden & Danforth Plant Science Center Fall Symposium, St. Louis, MO, "Biocomplexity in Natural Systems: Adaptions to Arid Ecosystems in Plants and Lichens"
- 2015 Plenary Lecture: Society for the Preservation of Natural History Collections, Gainesville, FL, "Endless Forms Most Useful: The Role of Natural History Collections in Research, Education, and Outreach"
- 2015 University of North Colorado, Greeley, CO, "Origins of Floral Diversity and Macroevolutionary Consequences"
- 2014 Botany Meetings (American Society of Plant Taxonomists & Botanical Society of America), Boise, ID, "Lichens As Endangered Species in the United States"
- 2014 National Botanical Research Institute, Namibia: "The Acanthaceae of Namibia"
- 2013 Oklahoma State University, Stillwater, OK, "A history of divergence and diversification in Acanthaceae"
- 2013 Royal Botanic Garden, Kew, Richmond, Surrey, U.K., "Macroevolutionary Trends in Acanthaceae"
- 2013 Royal Botanic Garden, Edinburgh, Scotland, U.K., "Macroevolutionary Trends in Acanthaceae"
- 2013 Namibian Botanical Society, Windhoek, Namibia: "The Acanthaceae of Namibia"
- 2012 Great Smoky Mountains Conservation Association, Knoxville TN, "Lichens of Great Smoky Mountains: Discovery and Conservation of a Hyperdiverse Biota"
- 2012 Great Smoky Mountains National Park Headquarters, Twin Creeks TN, "Lichens of Great Smoky Mountains: Discovery and Conservation of a Hyperdiverse Biota"
- 2012 The University Club, Claremont CA, "How Known is "Well-Known"? Progress in Lichenology in Great Smoky Mountains National Park"
- 2012 Botany Meetings (American Society of Plant Taxonomists & Botanical Society of America), Columbus OH, Symposium: Where is Plant Systematics Headed in the Next Ten Years? "The Biodiversity Information Synthesis"

- 2012 University of Colorado-Boulder, Boulder CO, “*Macroevolutionary Trends and Countertrends: Evidence from Acanthaceae*”
- 2011 South China Botanical Garden, Guangzhou, China, “*Ruellia, Ruellieae, and Evolution of Acanthaceae*”
- 2011 South China Botanical Garden, Guangzhou, China, “*Plant Botanical Exploration in the Tepui Highlands of Guyana*”
- 2010 Escuela Agrícola Panamericana Zamorano, Honduras, “*La Importancia de la Diversidad Vegetal en Los Trópicos para la Conservación de la Biodiversidad Mundial*”
- 2010 Institut für Systematische Botanik, Zurich, Switzerland, “*Distributions, Diversification, and Divergence Times in Acanthaceae*”
- 2008 Rancho Santa Ana Botanic Garden, Claremont CA, *Systematics and Pollination System Transitions in Ruellia (Acanthaceae)*”
- 2008 Academy of Natural Sciences, Philadelphia PA, “*Systematics and Pollination System Transitions in Ruellia (Acanthaceae)*”
- 2007 Philadelphia Botanical Club, Philadelphia PA, “*Botanical Collections in the Tepui Highlands of Guyana*”

PAPERS AND POSTERS PRESENTED AT PROFESSIONAL MEETINGS

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- 2026 Botany Meetings, Tucson, AZ, “Why We Are Done Shoehorning (Lichen) Taxa Into European Names” [Erin Manzitto-Tripp, Jacob Watts, Seth Raynor, Dina Clark, Patrick Kociolek]
- 2026 Botany Meetings, Tucson, AZ, “Elevation Drives Medullary Chemistry within *Dimelaena* Norman of Western North America” [Seth Raynor, Jacob Watts, Stacey Smith, Erin Manzitto-Tripp]
- 2026 Botany Meetings, Tucson, AZ, “Trait Syndromes Reveal Emergent Groups of North American Lichens” [Jacob Watts, Erin Manzitto-Tripp, Seth Raynor, Erica Tsai, James Lendemer]
- 2025 Botany Meetings, Palm Springs, CA, “Pyroenlichenment: Fire Drives *Cladonia* Presence, Abundance, and Diversity in Florida Sugar Sand Scrub” [Seth Raynor, Erin Manzitto-Tripp]
- 2025 Botany Meetings, Palm Springs, CA, “A (Lichen) Diamond Mine in a Gold Diggers State” [Erin Manzitto-Tripp, Jacob Watts, Seth Raynor]
- 2025 African Plants Congress, Ghana, “Advances in African Acanthaceae” [Iain Darbyshire, Erin Manzitto-Tripp, 6 other authors]
- 2024 Botany Meetings, Grand Rapids, MI “Creating Open-Source Keys in LUCID4 to Improve Lichen Research and Conservation in Colorado, USA” [Seth Raynor, Erin Manzitto-Tripp]
- 2024 Botany Meetings, Grand Rapids, MI “Lichens and Associated Fungi of the Indian Peaks Wilderness, Front Range Mountains, Colorado” [Seth Raynor, Jacob Watts, Erin Manzitto-Tripp]
- 2024 Botany Meetings, Grand Rapids, MI “An Assessment of the True Value of Herbaria: An Updated Version of Vicki Funk’s List of 100 Uses for Herbaria, 20 Years Later” [Lena Struwe, Megan King, Shawn Krosnick, Ryan Schmidt, Andrea Weeks Erin Manzitto-Tripp]
- 2024 Botany Meetings, Grand Rapids, MI “A Preliminary Lichen Biota of the City of Boulder’s Open Space and Mountain Parks, Colorado, USA” [Jacob Watts, Seth Raynor, Erin Manzitto-Tripp]
- 2024 Botany Meetings, Grand Rapids, MI “Trait and Environmental Correlations of the Lichen Communities at the Great Plains and Southern Rocky Mountains Ecotone” [Jacob Watts, Erin Manzitto-Tripp]

- 2023 Botany Meetings, Boise, ID “Pollination Diversity in American *Justicia* (Acanthaceae)” [Amanda Fisher, Carrie Kiel, Lucinda McDade, Erin Manzitto-Tripp]
- 2023 Botany Meetings, Boise, ID “Pattern, Timing and Biotic Context of Diversification in *Justicia*” [Carrie Kiel, Lucinda McDade, Erin Manzitto-Tripp].
- 2023 Botany Meetings, Boise, ID “Microclimate and substrate shape lichen community composition and functional diversity in the foothills of the Southern Rocky Mountains” [Jacob Watts, Erin Manzitto-Tripp].
- 2023 Botany Meetings, Boise, ID “Comparing phenological shifts in tropical wet and dry habitats using herbarium specimens” [Skylar Graves, Erin Manzitto-Tripp]
- 2023 Botany Meetings, Boise, ID “Internal and external biotic factors drive patterns of lichen species richness in the imperiled Southern Appalachian Biodiversity Hotspot” (James Lendemer, Erin Manzitto-Tripp, Christy McCain]
- 2022 Botany Meetings, Anchorage, AK, “Filament curtains, didynamous stamens, asymmetric stigmas, and the evolution of reproductive floral whorls in *Ruellia* (Acanthaceae) [Jeffrey Rose, Erin Manzitto-Tripp]
- 2022 Botany Meetings, Anchorage, AK, “A synopsis of lichenology research in Colorado and plans for future exploration” [Seth Raynor, Erin Manzitto-Tripp]
- 2022 Botany Meetings, Anchorage, AK, “Comparing a phenological shift in tropical wet and dry habitats using herbarium specimens” [Skylar Lynch, Brett Melbourne, Erin Manzitto-Tripp]
- 2021 Botany Meetings, virtual, “The surprising morphological and interspecific variation among stigmas in New World *Justicia*: is this remarkable diversity associated with pollination syndromes?” [Carrie Kiel, Erin Manzitto-Tripp, Amanda Fisher, Lucinda McDade]
- 2020 Botany Meetings, virtual, “Homoplasious character assessment in *Clematis* subgenus *Viorna*” [Jesse Harris, Erin Manzitto-Tripp, Stacey Smith]
- 2018 Botany Meetings, Rochester, MN, “Inferring the Biogeographical History of the Cosmopolitan Angiosperm Genus *Stellaria* L.” [Mathew Sharples, Erin Tripp]
- 2018 Botany Meetings, Rochester, MN, “Introgression Among Western North American Bilberries (*Vaccinium* section *Myrtillus*)” [Reese Beeler, Erin Tripp, Mathew Sharples]
- 2018 Botany Meetings, Rochester, MN, “How Many Ways Are There To Make a Purple Flower?” [Lucinda McDade, Erin Tripp + 7 others]
- 2018 Botany Meetings, Rochester, MN, “Nearly 6,000 Species of North American Lichens: Distributions, Traits, Ecologies, and New Syndromes” [Erin Tripp, James Lendemer]
- 2018 American Bryological & Lichenological Society, University of Colorado's Mountain Research Station, “Nearly 6,000 Species of North American Lichens: Distributions, Traits, Ecologies, and New Syndromes” [Erin Tripp, James Lendemer]
- 2017 Botany Meetings, Ft. Worth, TX, “Intercontinental Gradients in Plant Flavonoids: Testing the Impacts of Latitude, Environment, and Phylogeny in *Ruellia* (Wild Petunias: Acanthaceae)” [Erin Tripp, Yongbin Zhuang, Matt Schreiber, Heather Stone, Andrea Berardi]
- 2016 Botany Meetings, Savannah, GA, “RADseq Dataset with 90% Missing Data Fully Resolve Nascent Radiation of *Petalidium* (Acanthaceae) in the Ultra-Arid Deserts of Namibia” [Erin Tripp, Erica Tsai, Yongbin Zhuang, Kyle Dexter]
- 2015 Botany Meetings, Edmonton, Alberta, “Correlates of Lichen Biogeography: Continental-Scale Exploration of Taxon and Trait Distributions Across the United States” [Erin Tripp, James Lendemer, Albert Barberán, Rob Dunn, Noah Fierer]
- 2014 Botany Meetings, Boise, ID, “Now That We Have a Date For Our Clade: Using the Calibrated Phylogeny for Acanthaceae to Test Hypotheses about Tempo, Mode, and Drivers of Evolution” [Lucinda McDade, Erin Tripp]
- 2014 Botany Meetings, Boise, ID, “Reproductive Isolating Mechanisms in *Ruellia* (Acanthaceae)”

- [Heather Stone, Erin Tripp]
- 2013 Botany Meetings, New Orleans, LA, “*Flower Color Evolution in Ruellia (Acanthaceae)*” [Erin Tripp]
- 2013 Botany Meetings, New Orleans, LA, “*The Enticing Life of Arthonia (Arthoniomycete: Ascomycota)*” [Erin Tripp, James Lendemer]
- 2012 Botany Meetings, Columbus OH, “*Biogeography and Divergence Times in Acanthaceae*” [Lucinda McDade, Erin Tripp]
- 2011 Botany Meetings, St. Louis MO, “*The Genus Physacanthus (Acanthaceae) – an Intergeneric, Interlineage hybrid?*” [**recipient of The George R. Cooley Award for best evolution paper presented by a young scientist**] [Erin Tripp, Lucinda McDade. Siti Fatimah, Iain Darbyshire]
- 2011 Botany Meetings, St. Louis, MO, “*How Known is “Well-Known”? Progress in Lichenology in Great Smoky Mountains National Park*” [Erin Tripp, James Lendemer]
- 2011 Botany Meetings, Columbus OH, “*Systematics and Comparative Anatomy of Satanocrater*” [Siti Fatimah, Erin Tripp]
- 2011 Rancho Santa Ana Botanic Garden, Claremont CA, “*How Known is “Well-Known”? Progress in Lichenology in Great Smoky Mountains National Park*” [Erin Tripp]
- 2011 Association for Southeastern Biologists, Huntsville AL, “*How Known is “Well-Known”? Progress in Lichenology in Great Smoky Mountains National Park*” [Erin Tripp, James Lendemer, Richard Harris]
- 2010 Botany Meetings, “*Preliminary Analysis of Phylogenetic Relationships within Ruellieae (Acanthaceae)*” [Erin Tripp]
- 2009 NSF-sponsored MORPH Homology conference, Boulder CO, “*Proper Assessment of Floral Color Homology Through Anthocyanin Pigment Profiling and Molecular Expression of Key Loci in Ruellia (Acanthaceae)*” [Erin Tripp]
- 2008 Botany Meetings, Vancouver, British Columbia, “*Pollination System Evolution in Ruellia (Acanthaceae)*” [Erin Tripp, Paul Manos]
- 2008 Duke University Dissertation Seminar, Durham NC, “*Systematics and Pollination System Evolution in Ruellia (Acanthaceae)*” [Erin Tripp]
- 2008 South African Society for Systematic Biology, Johannesburg, South Africa, “*Biogeography and Diversification of the Acanthaceae*” [Lucinda McDade, Tom Daniel, Carrie Kiel, and Erin Tripp]
- 2007 Botany Meetings, “*Phylogeny and Biogeography of Juglans (Juglandaceae) Based on Nuclear DNA sequences*” [Sang-Hun Oh, Paul Manos, Erin Tripp]
- 2007 Association for Tropical Biology & Conservation, Morelia, Mexico, “*Evolution of Pollination Systems in Ruellia (Acanthaceae)*” [Erin Tripp]
- 2006 Duke University, Durham NC, “*Diversification Patterns in Ruellia (Acanthaceae)*” [Erin Tripp]
- 2006 The Academy of Natural Sciences, Philadelphia PA, “*Systematics and Pollinator Transitions in the Species-Rich Genus Ruellia (Acanthaceae)*” [Erin Tripp]
- 2006 Botany Meetings, Chico CA, “*Systematics of Ruellia (Acanthaceae): a Preliminary Examination of Evolutionary Relationships within a Species-Rich Genus*” [Erin Tripp]
- 2006 Society for Integrative and Comparative Biology, Orlando FL, “*Systematics and Pollinator Transitions in Ruellia (Acanthaceae)*” [Erin Tripp]
- 2003 Pennsylvania Academy of Sciences Annual Symposium, Harrisburg PA, “*The Current Status of Ruellia in Pennsylvania and Eastern North America: Natural History, Allozymes, and Morphometrics*” [Erin Tripp]
- 2002 National Conference for Undergraduate Research, Whitewater WI, “*Plant Diversity and Biogeography of the Upper Potaro Watershed in Guyana*” [Erin Tripp]
- 2002 University of North Carolina-Asheville Undergraduate Research Symposium, Asheville

NC, “Plant Diversity and Biogeography of the Upper Potaro Watershed in Guyana” [Erin Tripp]

EXTRACURRICULAR TEACHING, LECTURES, AND PRESENTATIONS

** indicates undergraduate author*

2026	Co-organized and led week-long lichenology training workshop for entirety of Region 2, US Forest Service, Manitou Experimental Station
2021	Colorado Native Plant Society, Lichen Biology Field Trip
2019	Lecture on “Change”, University of Colorado Library
2017	Organized and led 2017 Tuckerman Lichen Workshop, an annual gathering of lichen professions, amateurs, and students; Alabama 4-H Center, Talledega National Forest
2017	Trained 5 new students in lichenology during 2017 Tuckerman Workshop (Carly Anderson, Kristin White, Adam Solon, Zach Muscavitch, Jordan Hoffmann)
2017	Taught a one-day lichen biology field workshop for CoNPS in the Flat Tops Wilderness
2017	Taught a lichen identification workshop and information session on importance of biodiversity in Boulder’s open spaces to City of Boulder’s OSMP program
2017	Gave lichen diversity & management seminar to Boulder County’s Parks & Open Space program
2017	Contributed content to CU Museum’s Symbiosis exhibit
2016	Colorado Native Plant Society, Weekend Workshop on Lichen Biology
2015	Ira B. Jones Elementary School (Asheville, NC), Annual Schoolyard Plant Ecology Plot Monitoring Project and In-Class Science Training
2014	Colorado Native Plant Society, Lichen Biology Field Trip
2014	Taxonomy, Nomenclature, and Flora Writing, Two-Week Training (6 Technicians) at The National Botanical Research Institute of Namibia
2014	<i>What Makes A Legend?</i> Univ. of Colorado Library event (“CU Legends”) to honor the lifelong work of Dr. William A. Weber (12 Nov 2014)
2013	Colorado Native Plant Society, Weekend Workshop on Lichen Biology
2013	Ira B. Jones Elementary School (Asheville, NC), Annual Schoolyard Plant Ecology Plot Monitoring Project and In-Class Science Training
2012	Ira B. Jones Elementary School (Asheville, NC), Annual Schoolyard Plant Ecology Plot Monitoring Project and In-Class Science Training
2011	Ira B. Jones Elementary School (Asheville, NC), Annual Schoolyard Plant Ecology Plot Monitoring Project and In-Class Science Training
2011	Greeneville High School’s AP Biology Class, Lichen Workshop at Southern Appalachian Highlands Learning Center
2008	North Carolina Zoo Association of Horticulturists (Durham, NC), Plant Collecting and its Scientific Values
2006	Durham, North Carolina’s College Bound Program, Importance of Biodiversity Presentation
2004	City of Durham (NC) and Duke University’s School Days Program, Importance of Biodiversity Walk through Duke Greenhouses
2004	Falkville Elementary School (Falkville, AL), Importance of Biodiversity Presentation
2003	Wissahickon High School (Philadelphia, PA), Importance of Biodiversity Presentation

- 2003 University City High School (Philadelphia, PA), Importance of Biodiversity Presentation, followed by full day of service work in Wissahickon Park
- 2003 Erwin Middle School (Asheville, NC), Importance of Biodiversity Presentation

FIELD EXPERIENCE

North America:

Alabama, California, Colorado, Florida, Georgia, New Mexico, North Carolina, Pennsylvania, South Carolina, Tennessee, West Virginia, Wyoming

Central & South America:

Bolivia, Brazil (n=3 field trips), Colombia, Costa Rica, Ecuador (n=2 field trips), Guyana, Mexico (n=85 field trips), Panama, Peru, Venezuela

Africa:

Angola (n=2 field trips), Namibia (n=4 field trips), Ethiopia

Asia:

China (n=2 field trips), New Caledonia

EPONYMY

Parmotrema trippiae J. Watts & Raynor, *ined.* (in revision)

Justicia erinae I. Darbysh., published in *Blumea* 64: 101-103 (2019).

Fellhanera erinae R.C. Harris & Lendemer, published in *Opuscula Philolichenum* 6: 165 (2009).

CURATORIAL CONTRIBUTIONS, PLANTS AND LICHENS

~12,800 plant and lichen herbarium specimens collected under Tripp collection #s in: Angola, Alabama, Bolivia, Brazil, China, Colombia, Costa Rica, Panama, Ecuador, Ethiopia, Guyana, Mexico, Namibia, New Caledonia, Peru, USA, Venezuela (these housed at herbaria all over the world)

~34,000 plant and lichen herbarium specimens collected under other's collection #s from worldwide locations

Duplicates Housed at / Distributed to Numerous Museums Including:

ARIZ [Arizona State University], BRG [University of Guyana], BRIT [Botanical Research Institute of Texas], BY [Brigham Young University], CAS [California Academy of Science], CR [Museo Nacional de Costa Rica], DUKE [Duke University], ETH [Addis Ababa University], F [Field Museum of Natural History], GH [Gray Herbarium, Harvard], GSMNP [Great Smoky Mountains National Park], GUYN [Fundación Jardín Botánico del Orinoco, Venezuela], IEB [Instituto de Ecología], INB [Instituto Nacional de Biodiversidad, Costa Rica], IVIC [Instituto Venezolano de Investigaciones Científicas], K [Royal Botanic Garden, Kew], KANU [University of Kansas], KUN [Kunming Botanical Garden], MERC [Universidad de Los Andes], MEXU [Universidad Nacional Autónoma de México], MO [Missouri Botanical Garden], NY [New York Botanical Garden], OC [Oberlin College], PH [Academy of Natural Sciences of Philadelphia], RSA-POM [Rancho Santa Ana Botanical Garden], SICB [South China Botanical Garden], STRI [Smithsonian Tropical Research Institute], WIND [National Botanical Research Institute, Namibia], UC [University of California, Berkeley], US [Smithsonian Institution], US [Universidad de Costa Rica], UW [University of Washington], UNCA [University of North Carolina, Asheville], VEN [Fundación Instituto Botánico de Venezuela].

CURATORIAL ACTIVITIES, COLO HERBARIUM

Collections Overseen/Managed

Total	550,000 specimens
Vascular Plants	310,000 specimens
Bryophytes	119,000 specimens
Lichens	96,000 specimens
Algae	5,800 specimens
Other	19,200 specimens

Supervisees

Amber Horning, Botany Collections Manager, 2024-present
Ryan Allen, Botany Project Manager, 2012 to present
Dina Clark, Botany Collections Manager, 2011-2024
Tim Hogan, Botany Collections Manager, 1989-2022
Museum Graduate Assistant, 1-2 per semester (incl. summer), 20 hours per week
Undergraduate Botany Technicians, 3-6 per semester (incl. summer), 10-20 hours each / week