

Ann M. Evankow (She/her)

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Work address: Biodiversity, Earth & Environmental Science Dept., Drexel University, Philadelphia, PA, USA

## RESEARCH LAB FOCUS

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*Cryptogams ~ Comparative genomics ~ Community ~ Collections ~ Conservation (CryptoCoLab)*

## EDUCATION

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### **Ph.D. in Lichenology** 2020 – 2025

Integrative Systematics of Plants and Fungi (ISOP) Research Group,  
Natural History Museum, University of Oslo, Norway

Supervisors: Einar Timdal (UiO), James D. M. Speed (NTNU), Klara Scharnagl (UC Berkeley)

Thesis title: *Delimiting Diversity of Lichenized Lecanorales* (<http://doi.org/10.13140/RG.2.2.30038.10560> )

### **Master of Science (M.Sc.) – Biology** 2013 – 2015

Norwegian Institute for Water Research (NIVA) and  
Centre for Ecological and Evolutionary Synthesis (CEES),  
Department of Biosciences, University of Oslo, Norway

Supervisors: Anne K. Brysting (UiO), Claudia Junge (NIVA), Hartvig Christie (NIVA), Stein Fredriksen (UiO)

Thesis title: *Genetics of Norwegian kelp forests: Microsatellites reveal the genetic diversity, differentiation, and structure of two foundation kelp species in Norway* (<https://www.duo.uio.no/handle/10852/45583>)

### **Bachelor of Arts (B.A.) – Biology** 2008 – 2012

Biology Department, Colorado College, USA

Graduated with distinction in Biology, *cum laude*

Supervisor: Shane Heschel (CC)

Thesis title: *Roots, Rhizomes and Restoration: Growth and Biomass Allocation of Transplanted Zostera marina in Frenchman Bay, Maine*

## PROFESSIONAL EXPERIENCE

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### **Post Doctoral Researcher** 06.2025 - present

Biodiversity, Earth and Environmental Science Department (BEES), Drexel University, Pennsylvania, USA

Research project: *Evolution and population genomics of urban lichens*

Supervisor: Jason Munshi-South

### **Researcher and Educator** 04.2018 – 03.2020

Appalachian Mountain Club, New Hampshire, USA

Research project: *Tracking phenology of alpine plants with community science and collections*

Supervisor: Georgia Murray

### **Collections Associate/Interim Manager** 06.2016 – 03.2018

Ocean Genome Legacy, DNA and Tissue Bank, Marine Science Center, Northeastern University, Boston, USA

Supervisor: Daniel Distel

Research project: *DNA barcoding understudied marine species*

### **Researcher 06.2015 – 03.2016**

Centre for Ecological and Evolutionary Synthesis (CEES),  
Department of Biosciences, University of Oslo, Norway  
Research project: *Kelp population genetics*  
Supervisor: Anne Brysting

### **Community Environmental Health Intern 06.2011 – 07.2011**

Community Environmental Health Lab,  
Mount Desert Island Biological Laboratory, Maine, USA  
Research project: *Monitoring, conserving, and restoring seagrasses*  
Supervisor: Jane Disney

### **Plant Physiology Research Assistant 06.2010 – 08.2010**

Biology Department, Colorado College, Colorado, USA  
Research project: *Physiological and morphological responses of vascular plants to drought stress*  
Supervisor: Shane Heschel

## **PEER REVIEWED PUBLICATIONS**

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I have **13 peer-reviewed publications** listed below by date with 326 citations and an h-index of 6.

- A. Evankow**, J. Howland, J. Lendemer, J. Munshi-South. 2026. Urban Lichens as an Emerging Model for Urban Evolution. *American Journal of Botany* 112(12): e70140. <https://doi.org/10.1002/ajb2.70140>
- J. Munshi-South, **A. Evankow**. 2025. Urban pests traveled with ancient humans: Population genomics reveals the pre-urban origins of a common mosquito. *Science* 390(6771): 335 – 336. <https://doi.org/10.1126/science.aec1986>
- A. Evankow**, A. Yin, R. Zulfiqar, U. F. Ahmad, P. Nordenhaug, A. N. Khalid, L. Wang, E. Timdal. 2025. *Psora mediterranea* (Lecanorales, Psoraceae), a new lichen species from Europe, including a new concept for *P. himalayana* and a revised key to the European species. *Mycological Progress* 24(26) <https://doi.org/10.1007/s11557-025-02045-8> (cited: 3)
- M. Kirkhus, A. Frisch, **A. Evankow**, R. Blaallid, R. Zane, M. Bendiksby, M. L. Davey. 2025. Diversity of tremellalean *Perusaria*-associated fungi in Norway and the role of secondary metabolites in host specificity. *Fungal Biology* 129(3): 101563 <https://doi.org/10.1016/j.funbio.2025.101563> (cited: 1)
- E. Timdal, **A. Evankow**, V. Opedal, M. O. Fjelde. 2024. *Lecania lepitoda*, a new species from pollarded *Fraxinus excelsior* in oceanic, old-growth deciduous forests in Norway. *Graphis Scripta* 36(1):1-14. (cited: 2)
- K. Klughammer, D. Romanovskaia, A. Nemc, A. Posautz, C. A. Seid, L. C. Schuster, M. C. Keinath, J. Sebastian Lugo Ramos, L. Kosack, **A. Evankow**, D. Printz, S. Kirchberger, B. Erguner, P. Datlinger, N. Fortelny, C. Schmidl, M. Farlik, K. Skjaerven, A. Bergthaler, M. Leidvogel, D. Thaller, P. A. Burger, M. Hermann, M. Distel, D. L. Distel, A. Kubber-Heis, C. Bock. 2023. Comparative analysis of genome-scale, based-resolution DNA methylation profiles across 580 animal species. *Nature Communications* 14(232) <https://www.nature.com/articles/s41467-022-34828-y> (cited: 137)
- A. Evankow**, **S. Brinker**, E. Timdal. 2022. *Rhizoplaca ouimetensis* sp. Nov. (Lecanoraceae) from Onario, the first sorediate species in the genus. *The Bryologist* 125(4): 513-523 <https://doi.org/10.1002/ece3.9471> (cited: 4)
- J. D. M. Speed, **A. Evankow**, T. K. Petersen, P. S. Ranke, N.H. Nilsen, G. Turner, K. Aagaard, T. Bakken, J. G. Davidsen, G. Dunhsea, A. G. Finstad, K. Hassel, M. Husby, K. Hårsaker, J. I. Koksvik, T. Prestø, V. Vange. 2022. A regionally coherent ecological fingerprint of climate change, evidenced from natural history collections. *Ecology and Evolution* <https://doi.org/10.1002/ece3.9471> (cited: 10)

- D. M. Grant, O. B. Brodnicke, **A. Evankow**, A. O. Ferreira, J. T. Hansen, A. K. Kappel, M. Jensen, T. E. Kalayci, A. E. Joyce, S. Kiran, S. Prati, A. Reunamo, A. Roberts, R. Shigdel, V. Tyukosova, M. Bendiksby, R. Blaaid, F. Costa, P. Hollingsworth, E. Stur, T. Ekrem. 2021. The Future of DNA Barcoding : Reflections from Early Career Researchers. *Diversity* 13(7) <https://doi.org/10.3390/d13070313> (cited: 85)
- D. Opresko, B. Marzia, D. Stein, **A. Evankow**, D. Distel, M. Brugler. 2021. Description of two new genera and two new species of antipatharian corals in the family Aphanipathidae (Cnidaria: Anthozoa: Antipatharia). *Zootaxa* 4966(2): 161-174. <https://doi.org/10.11646/zootaxa.4966.2.4> (cited: 13)
- A. Evankow**, H. Christi, K. Hancke, A. K. Brysting, C. Junge, S. Fredriksen, J. Thaulow. 2019. Genetic heterogeneity of two bioeconomically important kelp species along the Norwegian coast. *Conservation Genetics* <https://doi.org/10.1007/s10592-019-01162-8> (cited: 33)
- E. Craine, **A. Evankow**, K. Bibee, H. Swedlund, C. Bowen, M. S. Heschel. 2016. Physiological Response of *Tamarix ramosissima* to a biological control agent. *Southwestern Naturalist* 76(3): 339-351 <https://doi.org/10.3398/064.076.0310> (cited: 6)
- M. S. Heschel, **A. Evankow**, K. B. Wolfson, J. E. Carlson, and K. E. Holsinger. 2014. Drought Response Diversification in African *Protea* Species, *International Journal of Plant Sciences* 175(4): 442-449. <https://doi.org/10.1086/675573> (cited: 16)

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## PREPRINTS

**A. Evankow**, S. Leavitt, K. Scharnagl, M. Bendiksby, J. Speed, E. Timdal. (Dissertation: Paper III) Revision of the deceiving lichen genus *Psora* in North America with descriptions of new species and spatial phylogenetic map of the continent. In: *Delimiting Diversity of Lichenized Lecanorales*. Faculty of Mathematics and Natural Sciences, University of Oslo, Oslo, Norway ISSN 1501-7710

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## OTHER PUBLICATIONS

G. Murray, D. Weihrauch, **A. Evankow**, S. Nelson, S. Gillies. **2020**. Crowdsourcing Mountain Flowering for Climate Research: iNaturalist in the Hands of Hikers. Appalachian Mountain Club, Conservation Research Report #2020-01

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## AWARDS AND FUNDING

I have received more than **185 500 Euros** for research, academic travel, workshop planning, and tuition.

### Funding and Scholarships:

- 2026 Travel Grant for upcoming IAL conference. British Lichen Society, UK. (**600 EUR**)
- 2024 – 2025 Energy & Environment Seed Funding for workshop, salary, and travel for visiting researchers. U. of Oslo, Norway. (200 000 NOK, **~17 740 EUR**)
- 2023 Visiting Guest Researcher Funding. University of Oslo, Norway. (15 000 NOK, **~1 330 EUR**)
- 2021 – 2023 Peder Sather Grant for research and travel. U.C. Berkeley, USA. (20 000 USD, **~16 900 EUR**)
- 2021 – 2022 Nansen Fund for research. UNIFOR, Norway. (47 500 NOK, **~4 200 EUR**)
- 2017 National Fish and Wildlife Foundation for research. Northeastern U., USA. (4 000 USD,)
- 2014 – 2015 Systematics Research Fund for research. Linnean Society, UK. (980 GBP, **~1 124 EUR**)
- 2014 – 2015 Nansen Fund for research. UNIFOR, Norway. (46 000 NOK, **~4080 EUR**)
- 2012 Transitions Fellowship for Norwegian Courses. Colorado College, USA. (1 600 USD, **~1 355 EUR**)
- 2012 Venture Grant for research visits in Norway, Sweden, Denmark. Colorado College, USA. (1 000 USD, **~ 850 EUR**)
- 2011 Service Leadership Scholarship for tuition. Colorado College, USA. (7 292 USD, **~6 176 EUR**)
- 2008 – 2012 Women’s Educational Society Scholarship for tuition. Col. College, USA. (4 000 USD per year, **~13 000 EUR total**)
- 2008 – 2012 Colorado College Grant for tuition. Colorado College, USA. (35 000 USD per year, **~ 118 000 EUR total**)

## Awards:

- 2020 Best Questions. ForBio Research School Annual Meeting. (1 000 NOK, ~ 88 EUR)  
2015 Best Poster. European Marine Biology Symposium. (200 EUR)  
2012 Biology Department Conservation Award. Colorado College.

## INVITED TALKS AND PANELS

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- 2025 **The Future of Collections: Discovering Novel Biodiversity & Signals of Change in Dusty Cabinets, Vials, & Freezers.** BEES Graduate Seminar, Drexel University, USA.  
2024 **Lichen Systematics: A Not-So-Cryptic Addition to the Kenya-Norway Knowledge-Building Collaboration.** Kenyatta University, Nairobi, Kenya.  
2024 **Women in STEM Panel.** First Joint International Scientific Congress, Kenya. [Link to Recording](#)

## SELECTED CONFERENCES

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- 07.2026 **Spatial phylogenetics of *Psora*: Integrating evolutionary relationships across species with occurrence records to evaluate biodiversity.** Talk at the International Association of Lichenology Symposium (IAL10), Trieste, Italy.  
08.2024 **ITS as a tool to discover and describe cryptic diversity of *Psora* (Lichenized Ascomycota) in Collections.** Talk at International Mycological Congress (IMC12), The Netherlands.  
06.2023 **Cryptic diversity of the lichen genus *Psora* in cryptogam collections.** Talk at Society for the Preservation of Natural History Collections (SPNHC), CA, USA. [Link to Recording](#)  
10.2022 **Challenges & Unexpected Opportunities from constructing a Lichen DNA Barcode Database for Norway.** Talk at BIOSCAN-NOReDNA Conference, Trondheim, Norway. (Lightning Talk)  
03.2022 **Searching for *Psora* in North America.** Talk at Northwest Lichenologists & California Lichen Society Meeting, CA, USA.  
12.2021 **Patterns and Processes of Cryptic Species Diversity of Soil Crust Lichens of South Africa.** Talk at ForBio Research School for Biosystematics Annual Meeting, Norway. (Lightning Talk)  
08.2021 **Integrative Taxonomy of the Psoraceae (Lichenized Ascomycota).** Talk at International Association of Lichenology (IAL), 9th International Congress, Brazil. [Link to Recording](#)  
04.2021 **Tracking Flowering Times of Alpine Species in New England.** Lunch Seminar Series Talk. Natural History Museum, Oslo, Norway.  
12.2020 **Integrative Taxonomy of the Psoraceae (Lichenized Ascomycota).** Talk at ForBio Research School for Biosystematics Annual Meeting, Norway. (Lightning Talk)  
02.2018 **A Genomic DNA Collection to Facilitate Black Coral Research.** Ocean Sciences Meeting Poster, Portland, OR, USA.  
05.2017 **DNA to Discoveries with Ocean Genome Legacy: A DNA Bank for Research and Marine Conservation.** Talk at Regional Aquatics Workshop, New England Aquarium, Boston, MA, USA.  
04.2017 **Global Genome Biodiversity Network Regional Meeting,** Washington D.C., USA.  
09.2025 **Genetic tools reveal diversity and structure of kelp forests in Norway.** European Marine Biology Symposium Poster, Helgoland, Germany.  
10.2013 **Kelp population genetics along a light and temperature gradient.** Talk at Student Conference, Centre for Ecological and Evolutionary Synthesis, University of Oslo, Norway.  
04.2012 **Biology Day Talk,** Colorado College, Colorado Springs, CO, USA.  
04.2012 **Roots, rhizomes, and restoration: Growth and biomass allocation of transplanted *Zostera marina*.** Col. Springs Undergrad. Research Forum, Colorado Springs, CO, USA.  
10.2011 **Drought response of non-native and native *Impatiens* (Balsaminaceae) predict range expansion.** Midstates Math and Science Consortium Undergrad. Poster, Washington U., MO

07.2011 MDI Biological Laboratory Symposia Talk, Bar Harbor, ME, USA.

#### PROFESSIONAL SERVICE (MANAGEMENT, ADMINISTRATION, AND COOPERATION)

09.2026 Tuckerman Excursion organizer, Eastern Lichen Network, Maine, USA  
10.2025 Excursion/annual meeting organizer, Nordic Lichen Society, Finland  
10.2023 Workshop organizer, Energy and the Environment, U. of Oslo, Norway  
10.2023 Excursion/annual meeting organizer, Nordic Lichen Society, Denmark  
2022 – 2023 International online journal club creator and organizer, U. of Oslo, Norway  
03.2022 Workshop organizer, Northwest Lichenology Meeting, Humboldt University, USA  
2021 – 2022 Welfare committee representative, NHM, U. of Oslo, Norway  
09.2021 Workshop organizer and session chair, Int. Association of Lichenology, Brazil  
12.2020 Co-organizer and session chair, ForBio Research School for Biosystematics Annual Meeting, Norway  
2021 Committee representative, ARK (working environment survey) committee, NHM, U. of Oslo, Norway  
03.2019 Plant conservation volunteer, New England Wildflower Society, Massachusetts, USA  
10.2013 Conference staff, Nordic Marine Science Conference, Asker, Norway  
09.2012 Conference staff, European Marine Biology Symposium, Arendal, Norway

#### SELECTED WORKSHOPS, COURSES, AND TRAINING

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2021 Spatial Analysis in R Course, Gothenburg Global Biodiversity Centre (GGBC)  
2021 Legislation Framework for Biodiversity Research Workshop, ForBio Research School in Biosystematics  
2012 Seagrasses Workshop, European Marine Biology Symposium  
2009 Emergency Medical Technician Basic Course, Colorado College

#### TEACHING EXPERIENCE AT UNIVERSITY LEVEL (PEDAGOGICAL EXPERTISE)

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Responsible for teaching **Lichens** in the graduate-level course “**Urban Ecology**”. Drexel University. 2025  
Teaching assistant in “**Evolution and systematics: The Plant Kingdom**” (field course). U. of Oslo. 2024  
Responsible for organization of graduate-level course “**Spatial Phylogenetics**”. U. of Oslo. 2023  
Guest Lecture “**Monitor Biodiversity & Digitize metadata in iNaturalist**”. Online in Benin, with mycologists from ...Benin, Burkina Faso, Côte d’Ivoire, Guinea, Republic of Congo, Zimbabwe. 2023  
Responsible for organization of graduate-level field course “**Alpine lichens and associated fungi**”. U. of Oslo. 2022.  
Teaching assistant in “**Fungal Biology**” (laboratory exercises). U. of Oslo. 2022  
Guest Lecture on “**What Impacts Lichen Distribution?**” at the Jepson Herbarium, U. of California Berkeley. 2022  
Guest Lecture on “**Phenology of Alpine Plants**” at Massachusetts Institute of Technology. 2019  
Teaching assistant in “**Phylogeny and Classification**” (laboratory exercises). U. of Oslo. 2015, 2021 - 2022  
Teaching assistant in “**Biostatistics and Experimental Design**” (laboratory exercises). Colorado Coll. 2010 - 2011

#### SUPERVISING AND MENTORING

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2026 **Star Scholar Co-supervisor** of Nicholas Otero-Powell for the project “DNA Barcoding of Lichens at Charles Darwin’s estate, Down House”, Munshi-South Lab, Drexel University, USA.  
2026 **Undergraduate Co-op Co-supervisor** of Jonah Weckstein, Munshi-South Lab, Drexel University, USA.

2025 **Star Scholar Co-supervisor** of Madison O'Brien, Drexel University, for the project titled "Genomics of the Common Urban Lichens *Physcia millgrana* and *P. stellaris*". Madison presented her results at the [STAR Scholars Summer Showcase](#). Munshi-South Lab, Drexel University, USA.

2020-2023 **Master Student Co-supervisor** of Mika H. Kirkhus with the project, "Hidden diversity and host specificity", Norwegian University of Science and Technology, Norway. [Link to Publication](#)

2018 **Undergraduate Student Co-Supervisor** of Sarah Gayer with the independent research project: "DESS deconstructed: Is EDTA solely responsible for protection of high molecular weight DNA in this common tissue preservative?" Ocean Genome Legacy, Northeastern University, USA. [Link to Publication](#)

2017-2018 **Undergraduate Student Supervisor** of Kerste Milik with the independent research project: "DNA Barcoding of brittle stars in the deep Pacific Ocean." Kerste presented her results at the Annual Environmental Conference, MA Association of Conservation Commissions ([MACC](#)), in Worcester March, 2018. Ocean Genome Legacy, Northeastern University, USA.

2016 – 2017 **Highschool Student Supervisor** of Margaret Slein with the independent research project, "The Study of *Hemigrapsus sanguineus* Population Density and Genetic Variation." Maggie won first place at the Annual South Shore Regional Science Fair and presented at the International Science and Engineering Fair in Los Angeles, CA, May 14-19, 2017. Ocean Genome Legacy Center, Northeastern University, USA.

#### SELECTED PUBLIC OUTREACH & SCIENCE COMMUNICATION

2026 "**Lichens & Lichenologists of the Appalachian Mountains**", Reeves Visitor Center, Harriman State Park, New York, USA. (*Part of the Appalachian Mountain Club 150 Outdoors Festival.*)

2025 **Lichen Walk Co-leader**, Philadelphia Mycology Club, Philadelphia, USA

2021 «**Sopptur i hagen**» **Co-leader**, Oslo Botanical Garden, Norway

2019 **Nature Trivia Co-host**, Tin Mountain Conservation Center at Tuckerman Brewing, USA

2019 – 2020 **STEM Teacher**, White Mountain Science, New Hampshire USA

2018 – 2020 "**A Mountain Classroom**" Outdoor Educator, Appalachian Mountain Club, USA

2016 **Biodiversity Field Expert**, Boston Harbor Islands National and State Park, Boston, USA

2013 – 2014 **School Program Coordinator**, Drøbak Aquarium, Drøbak, Norway

2010 – 2012 **Science Outreach Co-chair**, Cool Science/Girl's Day in the Lab, Colorado College, USA

#### **Popular Science Articles and Interviews**

2023 "**Lichens of the South Pacific: ultramafic maquis to lush fern forests of New Caledonia**" British Lichen Society, UK

2019 Guest on Scistarter *Citizen Science* Podcast, "**iNaturalist and the Appalachian Mountain Club**"

2017 "**The Hidden Life of Seaweed**" article, in *Flotsam & Jetsam*, Mass. Marine Educators, USA

#### FIELD EXPERIENCE (FIELD WORK, EXPEDITIONS & COURSES)

\*Indicates organizational or teaching responsibility

2026 \*Bethel, Maine, USA. Excursion. Eastern Lichen and Moss Network. (Co-organizer)

2026 \*Stueben, Maine, USA. Eagle Hill Institute Field Course. (Co-organizer & co-instructor)

2025 New York, USA. Excursion. Eastern Lichen and Moss Network.

2025 \*Turku, Finland. Excursion. Nordic Lichen Society. (Co-organizer)

2024 \*Taita Hills, Kenya. Field Course. Plant Systematics. (Teaching assistant)

2023 Kibale National Park, Uganda. BIOS9219 Field Course. Plant Conservation.  
 2023 \*Jutland, Denmark. Excursion. Nordic Lichen Society. (Co-organizer)  
 2023 Lapland, Sweden. BIO9021 Field Course/Excursion. Svensk Lichenologisk Förening.  
 2022 \*New Caledonia. Field Work.  
 2022 Drøbak, Norway. BIOS9217 Field Course. The Fungal Kingdom.  
 2022 \*Dovre fjell, Norway. FORBIO Field Course. (Co-organizer)  
 2022 Mojave Desert, California. Excursion. California Bryophyte Chapter.  
 2022 Red Wood Park, California. Excursion. California Lichen Society.  
 2022 \*Western USA. Field Work.  
 2021 \*Totenåsen, Norway. Field work/Excursion. Norsk Lavforening. (Co-organizer)  
 2020 Dovrefjell, Norway. Excursion. Norsk Lavforening.  
 2018 – 2020 \*New Hampshire, USA. Field work.  
 2016 – 2018 \*Massachusetts, USA. Field work.  
 2014 Svalbard. AB-332 Field Course. Arctic marine molecular ecology.  
 2014 Lom, Norway. BIO4250 Field Course. Plant systematics.  
 2014 Espesgrend, Norway. FORBIO Field Course. Marine macroalgae.  
 2014 Drøbak, Norway. BIO4320 Field Course. Systematics and ecology of marine algae.  
 2013 Drøbak, Norway. BIO4301 Field Course. Marine benthic ecology.  
 2012 Colorado, USA. Geo 205 Field Course. Historical geology.  
 2011 \*Maine, USA. Field Work.  
 2011 Colorado, USA. Bio 202 Field Course. Field botany.  
 2011 New Mexico, USA. Bio 412 Field Course. Entomology.  
 2010 \*Colorado, USA. Field Work.  
 2010 Namibia. Env Sci 120 Field Course. Ecology and conservation in Namibia.  
 2010 Colorado, USA. Bio 203 Field Course. Field zoology.

## COLLECTIONS VISITS & LOANS

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\*Indicates in-person visit

\*ASU, \*AWS, \*AUA, \*BRIT, BR, \*BRY, CMN-CANL, \*CANB, \*COLO, GZU, \*H, HSC, \*K, KUN, LD,  
 \*LG, \*MHU, \*NMK, \*NOU, \*NSW, \*NY, \*NYS, OBI, OSC, \*O, \*PH, QFA, \*SBBG, \*TRH, \*UC, UCR,  
 UPS, \*US, YM

## PEER REVIEW EXPERIENCE

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*Nordic Journal of Botany, Journal of Applied Phycology, Ecologie Mediterranea, Castanea*