

Ann M. Evankow (she/her)

Research focus: *Cryptogams ~ Community ~ Collections ~ Collaborative Science (CryptoCoLab)*

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Biodiversity, Earth & Environmental Science Dept., Drexel University, Philadelphia

PROFESSIONAL EXPERIENCE

- Postdoctoral Research Fellow**, BEES Dept., Drexel University, Philadelphia, PA, USA Jun 2025 – Present
- Investigator of urban evolution of lichens in NYC, Philadelphia, and other global cities
- PhD Research Fellow / Lichen Herbarium Assistant**, NHM, University of Oslo, Norway Sep 2020 – Dec 2024
- Project coordinator, grant writer, primary researcher of the *Psora* taxonomic revision
 - Supervised and instructed Master Students at the University of Oslo & NTNU
 - Collected and prepared specimens of lichens from Norway, USA, New Caledonia
 - Utilized lichen specimens from international collections for DNA, TLC, & microscopy
- Phenology Research Assistant**, Appalachian Mountain Club, Pinkham's Grant, NH Nov 2018 - 2020
- Coordinated citizen science project collecting phenology data from alpine plants
 - Recruited participants with presentations, articles, newsletters, and website development
- "A Mountain Classroom" Educator**, Appalachian Mountain Club, Pinkham's Grant, NH Spring 2016, 2018
- Taught environmental science and outdoor recreation to students in groups of 12
- Interim Collections Manager / Collections Associate**, OGL, Northeastern University, MA Jun 2016 - Mar 2018
- Coordinated projects to expand & utilize the Ocean Genome Legacy DNA & Tissue collections
 - Enforced legal compliance of state, federal, and international permits and laws
 - Managed sample database, object documentation, and worked to improve data quality
 - Recruited and corresponded with sample contributors, requesters, and collaborators
 - Supervised lab safety, monitored freezers, and co-managed purchasing activities
 - Planned and carried out science outreach with workshops, bioblitzes and newsletters
 - Supervised undergraduate and high school students working in the collections
- Genetics Researcher**, Department of Biosciences, University of Oslo, Norway Jun 2015 - Mar 2016
- Coordinated and carried out project investigating genetic diversity of kelp forests in Norway
 - Collected, preserved, and extracted DNA from hundreds of samples of two kelp species
- Community Environmental Health Intern**, Mt. Desert Island Biological Laboratory, Maine Summer 2011
- Managed citizen-science based phytoplankton, water quality, and GIS data collection
 - Developed an independent research project on seagrass growth and restoration
- Plant Research Assistant**, Department of Biology, Colorado College Summer 2010
- Conducted research testing stress tolerance of wild and greenhouse plants in Colorado
 - Resulted in two publications & an independent research poster

EDUCATION

- University of Oslo**, Natural History Museum, Oslo, Norway 2020 - 2025
Ph.D. Faculty of Mathematics and Natural Sciences
- University of Oslo**, Department of Biosciences, Oslo, Norway 2013 - 2015
M.Sc. Biology, Centre for Ecological and Evolutionary Synthesis
- Colorado College**, Colorado Springs, Colorado, USA 2008 - 2012
B.A., Distinction in Biology, *cum laude*

SUPERVISING & TEACHING EXPERIENCE

- Lab Supervisor**, Munshi-South Lab, Drexel University, Philadelphia, Norway 2025 – Present
- Trained technicians and undergraduate students with DNA lab protocols
- Workshop Organizer**, Research School for Bioinformatics, Norway 2022 – 2023
- Funded and orchestrated Spatial Phylogenetics Workshop for graduate students
- Master Students Supervisor**, Norwegian University of Science and Technology, Norway 2020 - 2023
- Mentored Mika Kirkhus & Raffaele Zane with chemical analysis of fungi in collections
- Undergraduate Students Supervisor**, Northeastern University, Massachusetts 2016 - 2018
- Supervised daily routines of students in collections work, including independent research projects
- Phylogenetics Teaching Assistant**, Department of Biosciences, University of Oslo, Norway 2015, 2021, 2022
- Biostatistics Learning Assistant**, Quantitative Reasoning Center, Colorado College 2010, 2011

PUBLICATIONS

- 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**, S. Leavitt, K. Scharnagl, M. Bendisksby, 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
- A. Evankow**, A. Yin, R. Zulfikar, 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>
- M. Kirkhus, A. Frisch, **A. Evankow**, R. Blaaid, R. Zane, M. Bendisksby, 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>
- E. Timdal, **A. Evankow**, V. Opedal, M. O. Fjelde. 2024. *Lecania leptoda*, a new species from pollarded *Fraxinus excelsior* in oceanic, old-growth deciduous forests in Norway. *Graphis Scripta* 36(1):1-14.
- 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>
- A. Evankow**, S. Brinker, E. Timdal. 2022. *Rhizoplaca ouimetensis* sp. Nov. (Lecanoraceae) from Onario, the first soresiate species in the genus. *The Bryologist* 125(4): 513-523 <https://doi.org/10.1002/ece3.9471>
- 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>
- 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. Bendisksby, 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>
- 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>
- 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>
- 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>
- A. M. Evankow**. 2015. Genetics of Norwegian kelp forests: Microsatellites reveal the genetic diversity, differentiation, and structure of two foundation kelp species in Norway (Dissertation). DUO Research Archive: University of Oslo, Norway. <https://www.duo.uio.no/handle/10852/45583>
- 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>
- A. Evankow**. 2012. Roots, Rhizomes and Restoration: Growth and Biomass Allocation of Transplanted *Zostera marina* in Frenchman Bay, Maine (Dissertation). Colorado College, Colorado Springs, CO

AWARDS AND GRANTS

UiO: Energy & Environment Seed Funding , 200 000 NOK, University of Oslo	2024
Peder Sather Grant , \$20 000, University of California, Berkeley	2021
Nansen Fund , 50 000 NOK, UNIFOR, Norway	2021
Best questions , 1 000 NOK, ForBio Research School for Biosystematics Annual Meeting, Norway	2020
Best Poster Prize , 200 Euros, EMBS, Marine Biological Association & MARS network	2015
Systematics Research Fund , Systematics Association & Linnean Society of London, UK	2014
Nansen Fund , 50 000 NOK, UNIFOR, Norway	2014
Biology Dept. Conservation Award , Colorado College	2012
Transitions Fellowship , Colorado College	2012
Venture Grant , Colorado College	2012
Service Leadership Scholarship , Colorado College	2011
Women's Educational Society Scholarship , Colorado College	2008

POSTERS & PRESENTATIONS

Talk & Poster , International Mycological Congress, The Netherlands	Aug 2024
Invited Talk , Kenyatta University, Nairobi, Kenya	Jun 2024
Women in STEM Panel , First Joint International Scientific Congress, Kenya	Jun 2024
Talk , Society for the Preservation of Natural History Collections, CA	Jun 2023
Talk & Workshop , Northwest Lichenologists & California Lichen Society Meeting, CA	Mar 2022
Lightning Talk , BIOSCAN-NOReDNA Conference, Trondheim, Norway	Oct 2022
Talk & Workshop , International Association of Lichenology, 9 th International Congress, Brazil	Aug 2021
Lightning Talk , ForBio Research School for Biosystematics Annual Meeting, Norway	Dec 2020, 2021
Phenology Talk , New England Wildflower Society, Concord, NH	Mar 2019
DNA Today Talk , Gorham Public Library, Gorham, NH	Nov 2018
Ocean Sciences Meeting Poster , Portland, OR	Feb 2018
Regional Aquatics Workshop , New England Aquarium, Boston, MA	May 2017
Global Genome Biodiversity Network Regional Meeting , Washington D.C.	Apr 2017
Centre for Ecological and Evolutionary Synthesis , University of Oslo, Norway	Mar 2017
European Marine Biology Symposium Poster , Helgoland, Germany	Sep 2015
Biology Day Talk , Colorado College, Colorado Springs, CO	Apr 2012
Midstates Math and Science Consortium Undergrad. Poster , Washington U., MO	Oct 2011
MDI Biological Laboratory Symposia Talk , Bar Harbor, ME	July 2011
Col. Springs Undergrad. Research Forum, Poster & Talk Colorado Springs, CO	Apr 2011, 2012

SERVICE & OUTREACH

Lichen Walk Co-Leader , Philadelphia Mycology Club, Philadelphia, USA	Dec 2025
Excursion/Annual Meeting Organizer , Nordic Lichen Society, Denmark & Finland	Oct 2023, 2025
Conference Chair , International Association of Lichenology, 9 th International Congress, Brazil	Aug 2021
• Chaired lightning session during virtual conference with international audience	
Conference Chair , ForBio Research School for Biosystematics Annual Meeting, Norway	Dec 2020
• Chaired lightning session during virtual conference with international audience	
Plant Conservation Volunteer , New England Wildflower Society, Massachusetts, USA	Mar 2019 - Present
• Helped monitor and collect seeds from rare plant species in NH and Maine	
Popular Science Article , Massachusetts Marine Educators, Massachusetts, USA	2017
• "The Hidden Life of Seaweed" in quarterly journal <i>Flotsam & Jetsam</i>	
Biodiversity Field Expert , Boston Harbor Islands National and State Park, Boston, Massachusetts, USA	Sep 2016
• Identified species with citizen scientists for biodiversity celebration	
School Program Coordinator/Shark Genetics Technician , Drøbak Aquarium, Drøbak, Norway	2013 - 2014
• Developed and instructed seaweed and marine animals exploration activity with students	
• Investigated parentage of small spotted catsharks with DNA using microsatellite data	
Conference Staff , Nordic Marine Science Conference, Asker, Norway	Oct 2013
• Assisted Norske Havforskere Forening with talk logistics	
Conference Staff , European Marine Biology Symposium, Arendal, Norway	Sep 2012
• Assisted Flødevigan staff with participant registration and presentation management	
Science Outreach Co-Chair , COOL Science/Girl's Day in the Lab, Colorado College, USA	2010 - 2012
• Developed engaging, hands-on science activities for kids and families	

SKILLS AND CERTIFICATIONS

Laboratory techniques: DNA Extraction & PCR, Next-Gen Sequencing Library Prep, Phylogenetic Analysis, Scanning Electron Microscopy, Herbarium Preparation, Thin Layer Chromatography (TLC)

Software: R, Geneious, Filemaker Pro, Arlequin, GenePop, Structure, ArcGIS, QGIS, Python

Other: Wilderness First Responder, (2016 - 2025), U.S. Driver's License, (2006 - present)

FIELD WORK/COURSES

Adirondacks, New York , Tuckerman-Crum Workshop at ESF Newcomb Campus, NY	Oct 2025
Turku, Finland , Nordic Lichen Society Excursion (co-organizer)	Oct 2025
Taita Hills, Kenya , Plant Systematics Field Course (co-instructor)	May – Jun 2024
Kibale National Park, Uganda , Plant Conservation Course	Oct 2023
Jutland, Denmark , Nordic Lichen Society Excursion (co-organizer)	Oct 2023
Lapland, Sweden , Field Course and Swedish Lichenologist Society field excursion	Jul 2023
New Caledonia , Tropical lichen collections field work (co-organizer)	Nov – Dec 2022
Texas, California, Utah, Idaho, USA , Field collections for PhD research	Spring 2022
Norway , annual Norwegian Lichen Society excursions in diverse places	2020 – 2025

PROFESSIONAL MEMBERSHIPS

New Jersey Mycological Association , member	Present
Philadelphia Mycology Club , lichen walk leader	Present
Society for the Preservation of Natural History Collections , member	Present
Nordic Lichen Society , Representative for Norway	Present
ForBio Research School for Biosystematics , student & workshop organizer	Present
British Lichen Society , member	Present
Norwegian Lichen Society (Norsk Lavforening), former board member, current member	Present
California Lichen Society , member	Present
International Association of Lichenology , member	Present

PEER REVIEW

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