

Jessica L. Allen, PhD

Curriculum Vitae

Assistant Professor, Eastern Washington University, Cheney, WA
Co-Chair, Lichen Specialist Group, IUCN Species Survival Commission
Email: jallen73@ewu.edu

EDUCATION

- 2018 *Postdoctoral Researcher*, Swiss Federal Institute for Forest, Snow, and Landscape Research, Birmensdorf, Switzerland
Advisor: Dr. Christoph Scheidegger
- 2017 *Doctor of Philosophy in Biology*, The City University of New York Graduate Center and The New York Botanical Garden, NY
Dissertation Title: Lichen Conservation in Eastern North America: Population Genomics, Climate Change, and Translocations
Advisors: Drs. William Buck and James C. Lendemer
- 2015 *Master of Philosophy*, The City University of New York Graduate Center, NY
Biology.
- 2011 *Bachelor of Science*, Eastern Washington University, WA
Biology Major, Chemistry Minor. *Summa Cum Laude ad Maxima Valorem*

RELEVANT RESEARCH AND PROFESSIONAL POSITIONS

- **Eastern Washington University, Cheney, WA**
Assistant Professor (2018-Present)
Establish, fund and run research lab focused on lichen genomics and conservation. Teach courses in genetics, botany, mycology, and evolution.
- **Swiss Federal Institute for Forest, Snow, and Landscape Research, Birmensdorf, Switzerland**
Visiting Researcher (2016)
Analyzed large datasets to investigate the continent-wide biogeographic history of *Lobaria pulmonaria* in North America.
- **The New York Botanical Garden, Bronx, NY**
Specimen Digitizer for Lichens, Bryophytes and Climate Change project (2012)
Digitized the lichen collection at The New York Botanical Garden (>100,000 specimens) and bryophyte collections shipped from the University of Vermont. Managed data uploads to the Darwin core server.
Trained and managed one employee.
Title: Herbarium Intern for the Kohlmeyer Marine Fungi collection (2011)
Databased and digitized the marine fungal collection with a team of interns. Created educational videos about the collection with fellow interns.
- **Oregon State University, Corvallis, OR**
Research Assistant, Botany and Plant Pathology Department, McCune Lab (2011)
Established transplant experiment to test the influence of nutrient treatments on lichen growth.
- **The Field Museum, Chicago, IL**
NSF Research Experience for Undergraduates Intern, Botany Department (2010)
Generated a DNA sequence data set to investigate the systematics of melanelioid lichens.
- **Eastern Washington University, Cheney, WA**
Research Assistant, Plant Systematics Lab (2008-2011)
Developed microsatellite markers for using in delimiting species in the plant genus *Claytonia*.
- **Pacific Northwest National Laboratory, Richland, WA**
Technical Intern IV, Ecology Group (2008-2009)
Assisted with salmon tagging efforts on the Columbia River and vegetation surveys on the Hanford Site.

GRANTS AND FELLOWSHIPS (\$1,674,600 total)

2021 National Science Foundation, \$1.4 million. Collaborative Research: Integrating Digitization, Exploration,

- Genomics, and Student Training to Illuminate Forces Shaping Appalachian Lichen Distributions. In collaboration with James Lendemer, The New York Botanical Garden.
- 2020 Mohamed bin Zayed Species Conservation Fund, \$17,000. Advancing American Lichen Conservation: Red-Listing Assessment Workshop and Specialist Group Capacity Building.
- 2020 Eastern Washington University Faculty Research Grant, \$10,000.
- 2019 Eastern Washington University Faculty Research Grant, \$10,000.
- 2017 Smithsonian Institution Fellowship Program, ~\$100,000 [Declined]. A Phylogenomic Approach to Testing for Hybridization in the Shaggy-Bottom Lichens (Parmeliaceae: *Hypotrachyna*).
- 2014 National Science Foundation Graduate Research Fellowship, ~\$132,000.
- 2015 American Bryological and Lichenological Society Student Research Grant, \$500.
- 2015 Highlands Biological Stations Grant-in-Aid of Research, \$1,400.
- 2014 Highlands Biological Station Science and Society Fellowship, \$1,200.
- 2014 Southern Appalachian Botanical Society Earl Core Student Research Award, \$500.
- 2014 The City University of New York Graduate Center Student Research Grant, \$1,400.
- 2011 Eastern Washington University Alumni Association Student Mini Grant, \$300.
- 2011 Washington Native Plant Society Northeast Chapter Student Research Grant, \$300.

LEADERSHIP POSITIONS

- 2021-Pres. Member-at-Large, Executive Committee, International Association of Lichenologists
- 2020-Pres. Member of IUCN Fungal Conservation Committee
- 2019-Pres. Member-at-Large, Executive Committee, American Bryological and Lichenological Society
- 2018-Pres. Co-chair for IUCN Species Survival Commission on lichens, Switzerland
- 2016-Pres. Member of IUCN Species Survival Commission on lichens, Switzerland
- 2016-2017 Program Director, Torrey Botanical Society, NY
- 2015-2019 Council Member, Torrey Botanical Society, NY
- 2014-2017 Travel and housing coordinator, The Tuckerman Workshop, AL, NC and MI
- 2012-2014 Event organizer and trip leader, The Metropolitan Society of Natural Historians, NY

PUBLICATIONS (Supervised students italicized)

In Review (PDFs available)

1. **Allen, J.L.**, S. Jones, and R.T. McMullin. *In Review*. Draft genome of the lichenized fungus *Bacidia gigantensis*. Genome Announcements.
2. **Allen, J.L.**, L.M. Calabria, H.E. Braid, E. Peterson, J. Villella, S. Sheehy, K. Glew, J.M. Graves, A. Berim, R. Bull, C.T. Lymbery, and R.T. McMullin. *In Review*. *Umbilicaria phaea* var. *coccinea*: conservation status, variety rank, and secondary chemistry. The Bryologist.
3. McMullin, R.T. and **J.L. Allen**. *In Review*. An assessment of data accuracy and best practice recommendations for observations of lichens and other difficult to identify taxa on iNaturalist. Botany.

Accepted and In Press (PDFs available for most works)

1. **Allen, J.L.** and J.C. Lendemer. *In Press*. Urban Lichens: A Field Guide for Northeastern North America. Yale University Press.
2. **Allen, J.L.**, R.T. McMullin, Y. Weirisma, and C. Scheidegger. *In Press*. Population Genetics and Biogeography of the Lungwort Lichen in North America Support Distinct Eastern and Western Gene Pools. American Journal of Botany.
3. **Allen, J.L.**, and R.T. McMullin. *In Press*. Lichens and Allied Fungi of the North Fork Nooksack River Valley, Whatcom County, Washington: Important Biodiversity in a High-Use Area. Western North American Naturalist.

Published

1. Plymale, A.E., J.R. Wells, C.I. Pearce, C.J. Brislawn, E.B. Graham, T.E. Cheeke, **J.L. Allen**, S.J. Fansler, B.W. Arey, M.E. Bowden, D.L. Saunders, V.G. Danna, K.J. Tyrrell, J.L. Weaver, R. Sjöblom, R. Paul, J.S.

- McCloy, E. Hjärthner-Holdar, M. Englund, E. Ogenhall, D.K. Peeler, and A.A. Kruger. 2021. Niche Partitioning of Microbial Communities at an Ancient Vitrified Hillfort: Implications for Vitrified Radioactive Waste Disposal. *Geomicrobiology Journal* 38: 36-56.
2. **Allen, J.L.** 2020. An annotated checklist of lichens reported from New York City since 1968. *Memoirs of the Torrey Botanical Society* 29: 141-155.
 3. McKenzie, S.K., R.F. Walston, and **J.L. Allen**. 2020. Complete, high-quality genomes from long-read metagenomic sequencing of two wolf lichen thalli reveals enigmatic genome architecture. *Genomics* 112: 3150-3156.
 4. Lendemer, J.L., and **J.L. Allen**. 2020. A revision of *Hypotrachyna* subgenus *Parmelinopsis* (Parmeliaceae) in eastern North America. *The Bryologist* 123: 265-332.
 5. Hansen, C.J., J.C. Lendemer, E.A. Tripp, **J.L. Allen**, W.R. Buck, J.K. England, R.C. Harris, N.M. Howe, R.T. McMullin, D.P. Waters. 2020. Lichens and allied fungi of Central Alabama, U.S.A.: Survey results from the 26th Tuckerman Workshop. *Opuscula Philolichenum* 19: 36-57.
 6. **Allen, J.L.**, J.C. Lendemer, R.T. McMullin, and E. Tripp. 2019. Lichen Conservation in North America: A review of current practices and research in Canada and the United States. *Biodiversity and Conservation*. <https://doi.org/10.1007/s10531-019-01827-3>
 7. **Allen, J.L.**, and R.T. McMullin. 2019. Modeling algorithm influence on the success of predicting new populations of rare species: Ground-proofing models for the Pale-Belly Frost Lichen (*Physconia subpallida*) in Ontario. *Biodiversity and Conservation* <https://doi.org/10.1007/s10531-019-01766-z>.
 8. Lendemer, J.C., and **J.L. Allen**. 2019. *Hypotrachyna oprah* (Parmeliaceae, Lichenized Ascomycota), a new foliose lichen with lichexanthone from southeastern North America. *Castanea* 84: 24-32.
 9. Dorey, J.E., J.R. Hoffman, J.L. Martino, J.C. Lendemer, and **J.L. Allen**. 2019. First record of *Usnea* (Parmeliaceae) growing in New York City in nearly 200 years. *Journal of the Torrey Botanical Society* 146: 69-77.
 10. England, J.K., C.J. Hansen, **J.L. Allen**, S.Q. Beeching, W.R. Buck, V. Charny, J.G. Guccion, R.C. Harris, M. Hodges, N.M. Howe, J.C. Lendemer, R.T. McMullin, E.A. Tripp, D.P. Waters. 2019. Checklist of lichens and allied fungi of Kathy Stiles Freeland Bibb County Glades Preserve, Alabama, U.S.A. *Opuscula Philolichenum* 18: 420-434.
 11. **Allen, J.L.**, S.K. McKenzie, R. Sleith, and E. Alter. 2018. First genome-wide analysis of the endangered, endemic lichen *Cetradonia linearis* reveals isolation by distance and strong population structure. *American Journal of Botany* 105: 1556-1567.
 12. Vetsch, D., **J.L. Allen**, A. Belser, R. Boes, J. Brodersen, S. Fink, M.J. Franca, C. Juez, O. Nadyeina, C.T. Robinson, C. Scheidegger, A. Schleiss, A. Siviglia, C. Weber, and V. Weitbrecht. 2018. Lebensraum Gewässer-Sediment-dynamik und Vernetzung. *Wasser, Energie, Luft* 1: 19-24.
 13. **Allen, J.L.** 2017. Testing lichen transplant methods for conservation applications in the Southern Appalachian Mountains, North Carolina, USA. *The Bryologist* 120: 311-319.
 14. Lendemer, J.C., C.R. Anderson Stewart, B. Besal, J. Goldsmith, H. Griffith, J.R. Hoffman, B. Kraus, P. LaPoint, L. Li, Z. Muscavitch, J. Schultz, R. Schultz, and **J.L. Allen**. 2017. The lichens and allied fungi of Mount Mitchell State Park, North Carolina: A first checklist with comprehensive keys and comparison to historical data. *Castanea* 82: 69-97.
 15. **Allen, J.L.**, and J.C. Lendemer. 2016. Quantifying the impacts of sea-level rise on coastal biodiversity: A case study in eastern North America. *Biological Conservation* 202: 119-126.
 16. **Allen, J.L.**, and N. Howe. 2016. Landfill Lichens: A checklist for Freshkills Park, Staten Island, New York. *Opuscula Philolichenum*, 15: 82-91.
 17. **Allen, J.L.**, and J.C. Lendemer. 2016. Climate change impacts on endemic, high-elevation lichens in a biodiversity hotspot. *Biodiversity and Conservation* 22: 555-568.
 18. McMullin, R.T., **J.L. Allen**, and J. Pagé. 2016. *Physconia subpallida* new to Québec, from Gatineau Park. *Opuscula Philolichenum* 15: 132-135.
 19. **Allen, J.L.**, and J.C. Lendemer. 2015. Fungal Conservation in the United States. *Endangered Species Research* 28: 33-42.
 20. **Allen, J.L.**, and J.C. Lendemer. 2015. *Japewiella dollypartoniana*, a new crustose lichen widespread in the Appalachian Mountains of eastern North America. *Castanea* 80: 59-65.

22. **Allen, J.L.**, and R.T. McMullin. 2015. *Chaenotheca balsamconensis*, a new calicioid lichen on *Trichaptum abietinum* from North America that is benefiting from widespread conifer fatalities. *The Bryologist* 118: 54-58.
23. Carvalho, A., G.V. Somner, and **J.L. Allen**. 2015. Is the phenology of all restinga species the same? A taxonomically-focused study of Sapindaceae in a highly threatened coastal environment. *Flora* 215: 92-101.
24. Lendemer, J.C., and **J.L. Allen**. 2015. Reassessment of *Hypotrachyna virginica*, an endangered, endemic Appalachian macrolichen, and the morphologically similar species with which it has been confused. *Proceedings of the Academy of Natural Sciences of Philadelphia* 164: 279-289.
25. Lendemer, J.C., **J.L. Allen**, and N. Noell. 2015. *The Parmotrema Acid Test: a look at species delineation in the Parmotrema perforatum group forty years later*. *Mycologia* 107: 1120-1129.
26. Marks, J.A., J. Pett-Ridge, S.S. Perakis, **J.L. Allen**, and B. McCune. 2015. Response of the nitrogen-fixing lichen *Lobaria pulmonaria* to phosphorus, molybdenum, and vanadium. *Ecosphere* 6:art155.
27. Hodkinson, B.P., **J.L. Allen**, L.L. Forrest, B. Goffinet, E. Sérusiaux, Ó.S. Andrésón, V. Miao, J.-P. Bellenger, and F. Lutzoni. 2014. Lichen-symbiotic cyanobacteria associated with *Peltigera* have an alternative vanadium-dependent nitrogen fixation system. *European Journal of Phycology* 49:11-19.
28. Lendemer, J.C., and **J.L. Allen**. 2014. Cryptic Biodiversity under threat from Sea-Level Rise in the North American Atlantic Coastal Plain. *Bioscience* 64: 923-931.
29. **Allen, J.L.**, and J.C. Lendemer. 2013. Uncovering chemical variability: molecular data reveal the identity of a sterile crustose lichen from the Yukon and affirm an expanded circumscription for *Buellia griseovirens*. *North American Fungi* 8(12): 1-14.
30. **Allen, J.L.**, B.P. Hodkinson, and C.R. Björk. 2012. A major range expansion for *Platismatia wheeleri*. *North American Fungi* 7(10): 1-12.
31. **Allen, J.L.**, and J. Downs. 2009. Greetings from the chair. *The Phlox Phlyer* 15(1): 1.

IUCN RED-LIST ASSESSMENTS (Peer reviewed, students names italicized)

1. **Allen, J.**, Lendemer, J. & McMullin, T. 2021. *Lecanora masana*. The IUCN Red List of Threatened Species 2021: e.T80702914A80702917. <https://dx.doi.org/10.2305/IUCN.UK.2021-2.RLTS.T80702914A80702917.en>.
2. **Allen, J.** & McMullin, T. 2021. *Umbilicaria phaea*. The IUCN Red List of Threatened Species 2021: e.T80703140A109425801. <https://dx.doi.org/10.2305/IUCN.UK.2021-2.RLTS.T80703140A109425801.en>.
3. **Allen, J.**, Yahr, R., *Lymbery, C.*, Batallas-Molina, R., Dal Forno, M., Howe, N., Lendemer, J., McMullin, T., *Mertens, A.*, Paquette, H., *Petix, M.*, Reese Næsborg, R., Roberts, F., Sharrett, S. & Villeda, J. 2021. *Melanohalea halei*. The IUCN Red List of Threatened Species 2021: e.T194662493A194678204. <https://dx.doi.org/10.2305/IUCN.UK.2021-2.RLTS.T194662493A194678204.en>.
4. **Allen, J.**, Yahr, R., *Lymbery, C.*, Batallas-Molina, R., Bungartz, F., Dal Forno, M., Howe, N., Lendemer, J., McMullin, T., *Mertens, A.*, *Petix, M.*, Reese Næsborg, R., Roberts, F., Sharrett, S. & Villeda, J. 2021. *Canoparmelia caroliniana*. The IUCN Red List of Threatened Species 2021: e.T194662208A194678189. <https://dx.doi.org/10.2305/IUCN.UK.2021-2.RLTS.T194662208A194678189.en>.
5. **Allen, J.**, Yahr, R., *Lymbery, C.*, Batallas-Molina, R., Bungartz, F., Calabria, L., Dal Forno, M., Howe, N., Lendemer, J., McMullin, T., *Mertens, A.*, Paquette, H., *Petix, M.*, Reese Næsborg, R., Roberts, F., Sharrett, S. & Villeda, J. 2021. *Flavoparmelia baltimorensis*. The IUCN Red List of Threatened Species 2021: e.T194662214A194678194. <https://dx.doi.org/10.2305/IUCN.UK.2021-2.RLTS.T194662214A194678194.en>.
6. **Allen, J.**, Yahr, R., *Lymbery, C.*, Batallas-Molina, R., Bungartz, F., Dal Forno, M., Hodges, M., Lendemer, J., McMullin, T., *Mertens, A.*, Paquette, H., *Petix, M.*, Reese Næsborg, R., Roberts, F., Sharrett, S., Spielmann, A. & Villeda, J. 2021. *Parmotrema perforatum*. The IUCN Red List of Threatened Species 2021: e.T194661584A194678159. <https://dx.doi.org/10.2305/IUCN.UK.2021-2.RLTS.T194661584A194678159.en>.
7. Yahr, R., **Allen, J.**, *Lymbery, C.*, Batallas-Molina, R., Bungartz, F., Dal Forno, M., Hodges, M., Lendemer, J., McMullin, T., *Mertens, A.*, Paquette, H., *Petix, M.*, Reese Næsborg, R., Roberts, F., Sharrett, S. & Villeda, J. 2021. *Parmotrema hypotropum*. The IUCN Red List of Threatened Species 2021: e.T194661553A194678154. <https://dx.doi.org/10.2305/IUCN.UK.2021-2.RLTS.T194661553A194678154.en>.
8. Yahr, R., **Allen, J.**, *Lymbery, C.*, Batallas-Molina, R., Bungartz, F., Dal Forno, M., Howe, N., Lendemer, J., McMullin, T., *Mertens, A.*, Paquette, H., *Petix, M.*, Reese Næsborg, R., Roberts, F., Sharrett, S. & Villeda, J.

2021. *Parmeliopsis ambigua*. The IUCN Red List of Threatened Species 2021: e.T194660719A194678139. <https://dx.doi.org/10.2305/IUCN.UK.2021-2.RLTS.T194660719A194678139.en>.
9. Yahr, R., **Allen, J.**, *Lymbery, C.*, Batallas-Molina, R., Bungartz, F., Dal Forno, M., Howe, N., Lendemmer, J., McMullin, T., *Mertens, A.*, Paquette, H., *Petix, M.*, Reese Næsborg, R., Roberts, F., Sharrett, S. & Villella, J. 2021. *Parmeliopsis hyperopta*. The IUCN Red List of Threatened Species 2021: e.T194660868A194678144. <https://dx.doi.org/10.2305/IUCN.UK.2021-2.RLTS.T194660868A194678144.en>.
 10. Yahr, R., **Allen, J.**, *Lymbery, C.*, Batallas-Molina, R., Bungartz, F., Dal Forno, M., Howe, N., Lendemmer, J., McMullin, T., *Mertens, A.*, Paquette, H., *Petix, M.*, Reese Næsborg, R., Roberts, F., Sharrett, S. & Villella, J. 2021. *Parmelia saxatilis*. The IUCN Red List of Threatened Species 2021: e.T194660573A194678129. <https://dx.doi.org/10.2305/IUCN.UK.2021-2.RLTS.T194660573A194678129.en>.
 11. Yahr, R., **Allen, J.**, *Lymbery, C.*, Bungartz, F., Batallas-Molina, R., Dal Forno, M., Howe, N., Lendemmer, J., McMullin, T., *Mertens, A.*, Paquette, H., *Petix, M.*, Reese Næsborg, R., Roberts, F., Sharrett, S., Spielmann, A., Vargas, R. & Villella, J. 2021. *Parmotrema crinitum*. The IUCN Red List of Threatened Species 2021: e.T194661476A194678149. <https://dx.doi.org/10.2305/IUCN.UK.2021-2.RLTS.T194661476A194678149.en>.
 12. Yahr, R., **Allen, J.**, *Lymbery, C.*, Batallas-Molina, R., Dal Forno, M., Howe, N., Lendemmer, J., McMullin, T., *Mertens, A.*, *Petix, M.*, Reese Næsborg, R., Roberts, F., Sharrett, S. & Villella, J. 2021. *Parmelia squarrosa*. The IUCN Red List of Threatened Species 2021: e.T194660642A194678134. <https://dx.doi.org/10.2305/IUCN.UK.2021-2.RLTS.T194660642A194678134.en>.
 13. Crowley, D., Pérez Castañeda, Á.J. & **Allen, J.** 2021. *Magnolia chiguila*. The IUCN Red List of Threatened Species 2021: e.T124251479A124251537. <https://dx.doi.org/10.2305/IUCN.UK.2021-2.RLTS.T124251479A124251537.en>.
 14. Pérez Castañeda, Á.J. & **Allen, J.** 2021. *Magnolia mashpi*. The IUCN Red List of Threatened Species 2021: e.T124251868A124251933. <https://dx.doi.org/10.2305/IUCN.UK.2021-2.RLTS.T124251868A124251933.en>.
 15. McMullin, T., Stone, D., Lendemmer, J. & **Allen, J.** 2021. *Sulcaria spiralifera*. The IUCN Red List of Threatened Species 2021: e.T80703106A80703113. <https://dx.doi.org/10.2305/IUCN.UK.2021-1.RLTS.T80703106A80703113.en>.
 16. Stone, D., Root, H., Hollinger, J., Rosentreter, R., *Chandler, A.* & **Allen, J.** 2020. *Texosporium sancti-jacobi*. The IUCN Red List of Threatened Species 2020: e.T175708768A175710642. <https://dx.doi.org/10.2305/IUCN.UK.2020-3.RLTS.T175708768A175710642.en>.
 17. *Chandler, A.*, Meredith, C.R., McMullin, T. & **Allen, J.** 2020. *Bryoria fremontii*. The IUCN Red List of Threatened Species 2020: e.T175709575A175710662. <https://dx.doi.org/10.2305/IUCN.UK.2020-3.RLTS.T175709575A175710662.en>.
 18. **Allen, J.**, Beeching, S., *Bishop, G.*, Dal Forno, M., Hodges, M., Lendemmer, J., McMullin, T., Paquette, H. & Yahr, R. 2020. *Flavoparmelia caperata*. The IUCN Red List of Threatened Species 2020: e.T180096947A180096996. <https://dx.doi.org/10.2305/IUCN.UK.2020-3.RLTS.T180096947A180096996.en>.
 19. **Allen, J.**, Lendemmer, J. & McMullin, T. 2020. *Buellia sharpiana*. The IUCN Red List of Threatened Species 2020: e.T80702844A80702847. <https://dx.doi.org/10.2305/IUCN.UK.2020-3.RLTS.T80702844A80702847.en>.
 20. **Allen, J.L.**, J. Lendemmer, & R.T. McMullin. 2020. *Graphis sterlingiana*. The IUCN Red List of Threatened Species 2020: e.T80702901A80702904. <https://dx.doi.org/10.2305/IUCN.UK.2020-3.RLTS.T80702901A80702904.en>.
 21. **Allen, J.**, Lendemmer, J. & McMullin, T. 2020. *Lepraria lanata*. The IUCN Red List of Threatened Species 2020: e.T80702927A80702930. <https://dx.doi.org/10.2305/IUCN.UK.2020-3.RLTS.T80702927A80702930.en>.
 22. McMullin, T., **Allen, J.** & Lendemmer, J. 2020. *Physconia subpallida*. The IUCN Red List of Threatened Species 2020: e.T80703034A80703037. <https://dx.doi.org/10.2305/IUCN.UK.2020-3.RLTS.T80703034A80703037.en>.
 23. **Allen, J.L.**, Lendemmer, J. & McMullin, T. 2020. *Hypotrachyna virginica*. The IUCN Red List of Threatened Species 2020: e.T71597387A71597454. <https://dx.doi.org/10.2305/IUCN.UK.2020-1.RLTS.T71597387A71597454.e>
 24. Lendemmer, J., **Allen, J.L.** and McMullin, T. 2020. *Cladonia appalachiensis*. The IUCN Red List of Threatened Species 2020: e.T80702853A80702858. <https://dx.doi.org/10.2305/IUCN.UK.2020-1.RLTS.T80702853A80702858.e>

25. Lendemer, J., **Allen, J.** and McMullin, T. 2020. *Pilophorus fibula*. The IUCN Red List of Threatened Species 2020: e.T80703047A80703054. <https://dx.doi.org/10.2305/IUCN.UK.2020-1.RLTS.T80703047A80703054.e>
26. **Allen, J.L.**, Tripp, E., and Lendemer, J. 2019. *Arthonia kermesina*. The IUCN Red List of Threatened Species 2019: e.T70385721A70385726. <https://dx.doi.org/10.2305/IUCN.UK.2019-3.RLTS.T70385721A70385726.en>
27. McMullin, T., **Allen, J.L.** and Lendemer, J. 2019. *Sulcaria isidiifera*. The IUCN Red List of Threatened Species 2019: e.T70386122A70386125. <https://dx.doi.org/10.2305/IUCN.UK.2019-3.RLTS.T70386122A70386125.en>
28. McMullin, T., **Allen, J.L.** and Lendemer, J. 2019. *Sulcaria badia*. The IUCN Red List of Threatened Species 2019: e.T80703097A80703100. <https://dx.doi.org/10.2305/IUCN.UK.2019-3.RLTS.T80703097A80703100.en>
29. Lendemer, J., **J.L. Allen**, T. McMullin, and E. Tripp. 2018. *Rinodina chrysomelaena*. The IUCN Red List of Threatened Species 2018: e.T80703073A80703076. <http://dx.doi.org/10.2305/IUCN.UK.2018-2.RLTS.T80703073A80703076.en>
30. Lendemer, J., **J.L. Allen**, and T. McMullin. 2018. *Loxospora assateaguensis*. The IUCN Red List of Threatened Species 2018: e.T80702946A80702949. <http://dx.doi.org/10.2305/IUCN.UK.2018-2.RLTS.T80702946A80702949.en>
31. Lendemer, J., and **J.L. Allen**. 2018. *Acanthothecis leucoxanthoides*. The IUCN Red List of Threatened Species 2018: e.T80702763A80702766. <http://dx.doi.org/10.2305/IUCN.UK.2018-2.RLTS.T80702763A80702766.en>
32. Lendemer, J., and **J.L. Allen**. 2018. *Acanthothecis paucispora*. The IUCN Red List of Threatened Species 2018: e.T80702772A80702775. <http://dx.doi.org/10.2305/IUCN.UK.2018-2.RLTS.T80702772A80702775.en>
33. **Allen, J.L.**, J.C. Lendemer, and T. McMullin. 2015. *Cetradonia linearis*. The IUCN Red List of Threatened Species 2015: e.T70386009A70386019. <http://dx.doi.org/10.2305/IUCN.UK.2015-4.RLTS.T70386009A70386019.en>

INVITED TALKS

- 2021 Lichens: Symbioses at the Fulcrum of the Macroscopic and Microscopic World. Dishman Hills Conservancy. March 11, 2021.
- 2021 Lichens: Hubs of Life and Creators of Worlds. Cowiche Canyon Conservancy/Yakima Valley Community College. March 9, 2021.
- 2020 Nanopore sequencing enables metagenomic and population genomic insights into lichen biology. University of Munich, Systematic Botany and Mycology, Germany. December 9, 2020.
- 2020 Lichen population genetics: North American patterns of diversity in three species. Central Washington University, Ellensburg, WA. October 23, 2020.
- 2019 Lichens of Washington State: A brief history and recent finds in the Palouse, Channeled Scablands, and North Cascades, Washington Native Plants Society Columbia Basin Chapter, December 3, 2019.
- 2019 Conservation Genetics in Lichens. Plenary Speaker for the American Bryological and Lichenological Society Conference, Tucson, AZ. July 29, 2019.
- 2019 Advancing lichen conservation in the United States: The role of biodiversity informatics and population genomics in the conservation of understudied organisms. Washington State University, Pullman, WA. April 17, 2019.
- 2019 The role of population genomics and biodiversity informatics in lichen conservation. University of Alberta, Edmonton, Alberta. March 29, 2019.
- 2018 The Endangered Rock Gnome Lichen: A Conservation Success Story. Zahner Conservation Lectures Series. Highlands Biological Station. July 12, 2018.
- 2017 Lichens in New York City: Past, Present, and Future. Torrey Botanical Society 150th Anniversary Symposium. The New York Botanical Garden, Bronx, NY. September 15, 2017.
- 2016 The impacts of climate change on lichens in the southeastern United States. The Canadian Museum of Nature, Gatineau, Québec. September 28, 2016.
- 2016 The impacts of sea level rise on coastal biodiversity: A case study in the Mid-Atlantic Coast Plain, West Virginia University, West Virginia. April 8, 2016.

PRESENTATIONS (Presenting author listed first, students italicized)

1. **Allen, J.L.** 2021. Full chromosome assembly of lichenized fungal genomes from whole thallus extracts using Nanopore sequencing. International Association of Lichenology 9th Symposium.
2. *Bishop, G.*, G.R. Harrison, K. Magori, R. O’Quinn, and **J.L. Allen**. 2021. The impacts of rock climbing on lichen and bryophyte cliff communities in northwestern North America. International Association of Lichenology 9th Symposium.
3. *Bishop, G.*, G.R. Harrison, K. Magori, R. O’Quinn, and **J.L. Allen**. 2021. The impacts of rock climbing on lichen and bryophyte cliff communities in northwestern North America. Bryophytes, lichens, and northern ecosystems in a changing world.
4. **Allen, J.L.**, *B. Booth*, *C. Lymbery*, *G. Bishop*, and *R.F. Walston*. 2021. Full chromosome assembly of symbiotic fungal genomes from complex metagenomics samples using nanopore sequencing. London Calling (Oxford Nanopore Conference), [Poster and invited lightning talk]
5. *Plymale, E.A.*, *C.I. Pearce*, *J.R. Wells*, *C.J. Brislawn*, *E.B. Graham*, *T.E. Cheeke*, **J.L. Allen**, *V.G. Danna*, *J.L. Weaver*, *J.S. McCloy*, *R. Sjoblom*, *E. Hjarthner-Holdar*, *M. Englund*, *E. Ogenhall*, *D.K. Peelr*, and *A.A. Kruger*. 2020. Niche Partitioning of Microbial Communities at an Ancient Vitrified Hillfort: Implications for Vitrified Radioactive Waste Disposal. Goldschmidt Virtual.
6. **Allen, J.L.**, *J. Hoffman*, *N. Howe*, *J. Dorey*, and *J.C. Lendemer*. 2019. The recovery and current status of lichens in New York City. Botanical Society of America Conference, Tucson, Arizona [Oral Presentation]
7. *Chandler, A.*, *E. Sell*, and **J.L. Allen**. 2019. A preliminary checklist for Kamiak Butte County Park, Whitman County, Washington States. Botanical Society of America Conference, Tucson, Arizona [Poster Presentation]
8. **Allen, J.L.** 2018. Conservation translocations of epiphytic lichens: Methods for transplanting rare species and whole communities. Society for Ecological Restoration – Society of Wetland Scientists, Spokane, Washington [Oral Presentation]
9. **Allen, J.L.** 2018. Using species distribution models to inform conservation translocations. International Mycological Congress, San Juan, Puerto Rico [Oral Presentation]
10. *Lendemer, J.*, **J.L. Allen**, *R.T. McMullin*. 2018. A standard protocol for selecting rare or threatened lichens for IUCN red listing: Results from trial implementation in North America. International Mycological Congress, San Juan, Puerto Rico [Poster Presentation]
11. **Allen, J.L.**, *S.K. McKenzie*, *R. Sleith*, and *E. Alter*. 2017. Population genomics of the rock gnome lichen (*Cetradonia linearis*) characterized by low rates of recombination and strong isolation by distance. Lichen Genomics II, Graz, Austria [Oral Presentation]
12. **Allen, J.L.**, *S.K. McKenzie*, *R. Sleith*, and *E. Alter*. 2017. Population genomics of the rock gnome lichen (*Cetradonia linearis*) characterized by low rates of recombination and strong isolation by distance. *Botany*, Fort Worth, TX [Oral Presentation]
13. **Allen, J.L.** 2017. Testing lichen transplant methods for conservation applications in the southern Appalachian Mountains, North Carolina. *Botany*, Fort Worth, TX [Oral Presentation]
14. **Allen, J.L.** and *J.C. Lendemer*. 2016. The impacts of sea level rise on coastal biodiversity: A case study in the Mid-Atlantic Coast Plain. *International Association of Lichenologists*, Helsinki, Finland [Oral Presentation]
15. **Allen, J.L.** and *J.C. Lendemer*. 2016. The impacts of sea level rise on coastal biodiversity: A case study in the Mid-Atlantic Coast Plain. *Association of Southeast Biologists Conference*, Concord, NC [Oral Presentation]
16. **Allen, J.L.** 2015. High Elevation Endemics and Climate Change: The Future of Rare Lichens in the Southern Appalachians. *International Congress on Conservation Biology*, Montpellier, France [Poster Presentation]
17. **Allen, J.L.** 2015. High Elevation Endemics and Climate Change: The Future of Rare Lichens in the Southern Appalachians. *Association of Southeast Biologists Conference*, Chattanooga, TN [Oral Presentation]
18. **Allen, J.L.**, and *J.C. Lendemer*. 2014. Species distribution modeling and conservation: How well do modern techniques work for lichens? *Botany*, Boise, ID [Oral Presentation]
19. **Allen, J.L.**, and *J.C. Lendemer*. 2014. Lichen diversity imperiled by sea-level rise in the Mid-Atlantic Coastal Plain. *Botany*, Boise, ID [Poster Presentation]
20. **Allen, J.L.**, and *J.C. Lendemer*. 2014. Cryptic biodiversity loss from sea-level rise in the North American Atlantic coastal plain. *Biodiversity responses to climate change: perspectives from the southeastern U.S.*, Greenville, NC [Poster Presentation]

21. **Allen, J.L.**, R. McCourt, and K. Karol. 2013. Structural evolution of mitochondrial genomes in early diverging algal lineages. *Botany*, New Orleans, LA [Oral Presentation] and *The Phycological Society of America Conference*, Orlando, FL [Poster Presentation]
22. O'Quinn, R., T. Stoughton, and **J.L. Allen**. 2013. Chasing clade resolution in *Claytonia* section *Claytonia* (Montiaceae). *Botany*, New Orleans, LA [Oral Presentation]
23. Noell, N., **J.L. Allen**, R. O'Quinn, and J. Hollinger. 2013. Lichens of Turnbull National Wildlife Refuge: A lichen inventory in the channeled scablands of Eastern Washington state. *Botany*, New Orleans, LA [Poster Presentation]
24. **Allen, J.L.**, and J.C. Lendemer. 2012. Uncovering chemical variability: molecular data reveal the identity of a sterile lichen from the Yukon, suggesting an expanded circumscription for *Buellia griseovirens* and reevaluation of the role of chemistry in delineating lichen species. *Biodiversity: From Evolutionary Origins to Ecosystem Function, A Bicentennial Symposium to Celebrate 200 Years of Research at the Academy of Natural Sciences of Drexel University*, Philadelphia, PA [Poster Presentation]
25. **Allen, J.L.** 2011. Two variable cpDNA markers suitable for phylogeny reconstruction in *Claytonia* sect. *Claytonia* (Montiaceae). *Eastern Washington University Student Research and Creative Works Symposium*, Cheney, WA [Oral Presentation]
26. **Allen, J.L.** 2010. Species delimitation in melanelioid lichens (Ascomycota: Lecanorales: Parmeliaceae). *The Field Museum Undergraduate Research Symposium*, Chicago, IL [Oral Presentation]
27. **Allen, J.L.** 2010. One small branch on the tree of life: assessing marker utility for phylogeny reconstruction in perennial spring beauties. *National Conference on Undergraduate Research*, Missoula, MT [Poster Presentation]

PEER REVIEW

- Reviewed manuscripts for Cladistics, Ecoscience, Evansia, Global Change Biology, Herzogia, Journal of the Torrey Botanical Society, Molecular Ecology, Methods in Ecology and Evolution, Opuscula Philolichenum, The Bryologist, and The Lichenologist.
- Reviewer for World Conservation Congress 2020 Symposium proposals.

LICHEN COLLECTIONS

- Over 5,000 collections, largely from North America (e.g., Alaska, the Pacific Northwest, and the southeastern United States).
- Over 90 weeks of field work experience in North America, Central America, and Europe, most weeks spent collecting lichens in North America.

AWARDS AND HONORS

2021	Tuckerman Award for best paper in lichenology, American Bryological and Lichenological Society
2017	A.J. Sharp award for best student talk, American Bryological and Lichenological Society Conference, Fort Worth, TX
2015	Windler Award for best systematic botany paper of the year in the journal <i>Castanea</i> , Association of Southeast Biologists Conference, Concord, NC
2015	Best student oral presentation, The Botanical Society of America southeast chapter, Association of Southeast Biologists Conference, Chattanooga, TN

COURSES AND WORKSHOPS TAUGHT

- **Eastern Washington University, Cheney, WA**
Graduate and undergraduate level courses including: Bioinformatics; Botany; Current Topics in Ecology and Evolution; Genetics; Introductory Biology II and III; Lichenology; Mycology
- **SSC Lichen Specialist Group Workshops, Global**
Lichen Red Listing Workshops (May 2020, January 2021, August 2021)
- **Highlands Biological Station, Highlands, NC**

Lichen Biology and Conservation (Summers 2016, 2018, 2021); Introduction to Lichen Identification (Summer 2015); Rare Lichens of the Southern Appalachians (Summer 2015)

- **Baruch College, New York, NY**
Science and Technology in New York City (Fall 2014 and 2015)
- **Wrangell Mountain Center, McCarthy, AK**
Introduction to Lichen Identification (Summer 2013)

THESIS AND DISSERTATION PROJECTS

- Bishop, Giovanna. Impacts of Rock Climbing on Lichen and Bryophyte Communities at McLellan Rocks and Rocks of Sharon Climbing Areas, Spokane County, WA. Biology Department, Eastern Washington University, Master's Thesis, Completed July 2021. Primary Advisor.
- Petix, Meaghan. Assessing Nitrogen Critical Loads in North Cascades and Olympic National Parks. School of Biological Sciences, Washington State University, Dissertation, Ongoing. Committee Member.
- Hoffman, Jordan. Conservation, comparative genomics and species delimitation of the reindeer lichens (*Cladonia*). Biology Department, City University of New York Graduate Center, Dissertation, Completed July 2021. Committee Member.
- Bean, Ethan. Genetic Structure of *Pseudoregneria spicata* in the Northern Palouse Prairie and Channeled Scablands. Biology Department, Eastern Washington University, Masters Thesis, Completed March 2021. Committee Member.

OUTREACH

- 2021 Lichen Taxonomic Expert, Macaulay Honors College Bioblitz, New York, NY
- 2021 Dishman Hills Lichen Walk, Spokane Women's Hiking and Snowshoeing Club, Spokane, WA
- 2020 Lichen Taxonomic Expert, Macaulay Honors College Bioblitz, New York, NY
- 2019 Lichen walk at Riverside State Park, Inland Northwest Concerned Scientists, Spokane, WA
- 2018 Spooky Science, Eastern Washington University, Cheney, WA
- 2018 Spokane Valleyfest, Spokane Valley, WA
- 2017 Simon's Rock Lichen Walk, Bard College at Simon's Rock, NY
- 2017 Central Park Lichen Walk, City Nature Challenge/Central Park Conservancy, NY
- 2016 Fungal Diversity Lecture, Botany Course, Sarah Lawrence College, NY
- 2016 Consultation on Lichen Display for Cable Natural History Museum, WI
- 2016 Central Park Lichen Walk, The Central Park Conservancy, NY
- 2016 Mount Mitchell Bioblitz, NC
- 2016 Central Park Lichen Walk, The Metropolitan Society of Natural Historians, NY
- 2016 Workshop leader, plant evolution for 7th grade girls, Experience Your Options, New York, NY
- 2016 Volunteer, Rainforest Action Network Annual Awards Banquet, NY
- 2015 Freshkills Bioblitz taxon leader, Staten Island, NY
- 2015 Workshop leader, plant evolution for 7th grade girls, Experience Your Options, New York, NY
- 2014 Public lichen displays and lessons, Highlands Biological Station, NC
- 2014 High-elevation endemic lichens in the Southern Appalachians, Presentation for teacher's workshop on climate change, The Smoky Mountains Institute at Tremont, TN
- 2014 Lichens and Science Presentation, Bronx high school students, NY
- 2013 Lichen Taxonomic Expert, Central Park Bioblitz, NY
- 2012 Kings Gap State Park Bioblitz, Kings Gap Environmental Education Center, PA
- 2010-2012 Washington Native Plant Society, native plant garden and member recruitment volunteer, WA

MEDIA CONTRIBUTIONS FOR NON-SCIENTIFIC AUDIENCES (All titles link to media)

- 2020 [Climate change research featured in National Parks Magazine.](#)
- 2019 Interview on Science Friday. [Cemeteries offer a green refuge for urban plant life animals.](#)
- 2018 Eastern Washington University blog posts on [The Society for Ecological Restoration conference](#), [sedimentation in Latah Creek](#), and [lichen research](#).
- 2019 Research featured in the [Eastern Washington University alumni magazine](#).

- 2019 Research [featured in the Inlander Magazine](#).
- 2019 Research [featured in Coastwatch](#).
- 2018 Research featured as [Jeopardy question and retweeted by Dolly Parton](#).
- 2017 Research [featured in Scientific American](#).
- 2016 Interview for the [In Defense of Plants](#) podcast.
- 2016 [Lichens Hold On Along America's Vanishing Coast](#). NYBG Plant Science Blog.
- 2016 [The Rock Gnome](#). NYBG Plant Science Blog.
- 2015 [New Jersey Transplants "Lichen" Their New Home](#). 2015. NYBG Plant Science Blog.
- 2015 [Mission Possible: NYBG Scientists Boost Conservation of Fungi](#). NYBG Plant Science Blog.
- 2015 [Honoring a Music Legend of the Southern Appalachians](#). NYBG Plant Science Blog.
- 2015 [Transplants: New Jersey Lichens Find New Home at NYBG](#). NYBG Plant Science Blog.
- 2012 [Bringing Lichens Down to Earth](#). NYBG Plant Science Blog.
- 2011 Videos on the marine fungi collection at The New York Botanical Garden. [Video 1](#) and [Video 2](#).

SERVICE TO INSTITUTION

- 2021-Pres. Graduate Affairs Council Member, Eastern Washington University, WA
- 2021-Pres. Leader of Biology Department Displays Committee, Eastern Washington University, WA
- 2018-Pres. Department of Biology Public Relations Committee, Eastern Washington University, WA
- 2014-2016 Graduate Student Council Member, CUNY Graduate Center, NY
- 2015 Lead tours of the Pfizer Laboratory for Science Open House, The New York Botanical Garden, NY
- 2014 Exploring America's Wilderness: Lichens of the Boreal Forest and Alpine Tundra, Invited talk for members at The New York Botanical Garden, NY
- 2013 Invited talk for the board of directors of The New York Botanical Garden, NY
- 2012 Video on the Kohlmeyer Collection of marine fungi at The New York Botanical Garden, NY

RELATED PROFESSIONAL SKILLS AND EXPERIENCES

- 2021 Red List Trainer's Training. Red List Unit, Cambridge. [Online]
- 2020 Strategic Planning for Herbarium Curators. University of Florida, Florida. [Online]
- 2018 Canadensys and GBIF workshop on biodiversity data quality and cleaning. Vancouver, British Columbia.
- 2015 Using the IUCN Red List categories and criteria to assess extinction risk of species for global and national red lists, Training at the International Congress on Conservation Biology, Montpellier, France.
- 2015 North American Lichen Red List Workshop, The New York Botanical Garden, New York, New York.

PROFESSIONAL MEMBERSHIPS

- American Bryological and Lichenological Society
- Botanical Society of America
- Society of Herbarium Curators