

Assistant Professor, Department of Biological and Physical Sciences, Assumption College
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EDUCATION

- 2011 Ph.D. Ecology and Evolutionary Biology, University of Connecticut (UConn).
Advisor: Louise Lewis, louise.lewis@uconn.edu.
Dissertation: Monograph of the Genus *Bracteacoccus* (Sphaeropleales, Chlorophyceae), with Systematic Clarification of Taxonomically Related Genera.
- 2006 M.S. Biology, John Carroll University (JCU).
Advisor: Jeffrey Johansen, johansen@jcu.edu.
Thesis: Algae and Cyanobacteria of Selected Subaerial Habitats in the Great Smoky Mountains National Park, U.S.A., and Desmid Flora of the GSMNP.
- 2004 B.S. Biology, University of South Bohemia.
Advisor: Jan Kaštovský, hanys@prf.jcu.cz.
Thesis: Microvegetation of the top of Roraima Tepui, with emphasis on the order Desmidiales.

POSTDOCTORAL AND PROFESSIONAL EXPERIENCE

- 2016 - present Assistant professor, Assumption College (AC).
- 2016 Adjunct professor, NHTI, Concord's Community College (NHTI).
- 2014-15 Postdoctoral associate, UConn; Estimating the Bayesian Phylogenetic Information Content of Systematic Data (NSF funded).
Advisors: Paul Lewis paul.lewis@uconn.edu and Louise Lewis
- 2012-14 Postdoctoral associate, UConn; Green Algal Tree of Life (NSF funded).
Advisors: Louise Lewis and Paul Lewis.

TEACHING EXPERIENCE (F = fall, S = spring, SU = summer)

Instructor:

- S 2019 Organic Evolution (BIO 320), AC.
F 2018 Plant Biology (BIO 230 + laboratory), AC.
S 2018 Bioinformatics (BIO 260 + laboratory), AC.
FS 2016-19 Concepts in Biology (BIO 160 + laboratory), AC.
S 2017 Special Topics in Biology: Bioinformatics (BIO 275), AC.
SU 2016 Introduction to Biology (BIOL 100 + laboratory), NHTI.
S 2016 Cell Biology (BIOL 260C + laboratory), NHTI.
F 2013 Modern Topics in Biology (BIOL 1109), UConn.

Guest Lecturer:

- S 2016 Exercise Physiology (BI 201), St. Anselm College; topic: Marathon Training.
S 2015 Bryology and Lichenology (EEB 3240), UConn; topic: Lichen Photobiont Diversity.

- F 2014 Biology of the Algae (EEB 3250/5250), UConn; topic: Algal Biodiversity.
Introduction to Undergraduate Research (BIOL 2289), UConn; topic: Studying Biodiversity.
- S 2013 Modern Topics in Biology (BIOL 1109), UConn; topic: Ecology and Evolution of Mini-Plants.

Teaching Assistant:

- F 2008, 10 Biology of the Algae (EEB 3250/5250), UConn.
- F 2007 Principles of Biology (BIOL 1108), UConn.
- F 2005 Limnology (BL 424), JCU.

Pedagogical Education and Professional Development:

- SU 2019 Invitation to Learning: Emotions, Inclusivity and Community, symposium attendee, AC.
Community Service Learning Workshop participant, AC.
- F 2017-S18 Course Innovation Academy participant, Center for Teaching Excellence, AC.
- S 2018 Participant in Meaningful Writing Project workshop with A. Geller, AC.
- SU 2017 Fostering Academic Success in STEM – conference participant, University of New Hampshire.
STEM Pedagogy Institute participant, University of New Hampshire.
- FS 2016-18 Faculty Learning Community participant, D'Amour Center for Teaching Excellence, AC.
- F 2014 An Introduction to Evidence-Based Undergraduate STEM Teaching – online course by
Vanderbilt U. - earned a statement of accomplishment with distinction.
- S 2013 EEB 5894 – Teaching Methods Seminar - audited.

STUDENT MENTORING (• = minority student)

- S 2018 – S 2019. Thomas Barringer; AC '19 – HON 300, HON 444.
Project: *Batrachochytrium dendrobatidis* in bullfrog tadpoles in Massachusetts.
2 oral presentations – honors thesis February 2019, AC Undergrad Research Symposium April 2019.
- SU 2017 – S 2019. •Aleeza Isaac; AC '20 – volunteer; Honors Summer fellowship recipient, BIO 490, HON 300, HON 444.
Projects: Biodiversity of soil algae, Growth rates and lipid content in polar and desert algae.
2 solo poster presentations – Nat. Sci. Student Research Poster Session Sept. 2018, AC Undergraduate Research Symposium April 2019.
1 poster presentation with M. Ireland – Nat. Sci. Student Research Poster Session Sept. 2017.
- S 2017 – F 2018. Victoria Williamson; AC '20 – volunteer; Honors mentee, HON 300.
Project: Morphological and genetic assessment of selected desert algae.
- SU 2018. Evan Kessinger; AC '21 – summer research fellow.
Project: Algal floras of Pudding Pond and Carver Pond compared to historical data.
1 poster presentation – Nat. Sci. Student Research Poster Session Sept. 2018.
- S 2018. Emily Tomanelli; AC '18 – BIO 491.
Project: Effects of UV stress on soil algae.
1 poster presentation – AC Undergraduate Research Symposium April 2018.
- S 2018. •Dominique Shepard; AC '18 – BIO 491.
Project: Biodiversity of New Hampshire soil algae.
1 poster presentation – AC Undergraduate Research Symposium April 2018.
- SU 2017 - S 2018. Melissa Taylor; AC '18 – summer research fellow, BIO 490, HON 444.

3 poster presentations – Nat. Sci. Student Research Poster Session Sept. 2017, Northeast Algal Symposium April 2018, AC Undergraduate Research Symposium April 2018.

1 oral presentation – honors thesis, April 2018.

Project: Morphological and molecular characterization of a new species of desert green algae.

S, F 2017. Volunteer Susanna Klicka-Jacobsen; AC '18.

Project: Microscopic and genetic assessment of selected North American algae.

F 2017. Lenka Štenclová; doctoral candidate visiting from University of South Bohemia, Czech Republic.

Projects: Cellular features and organellar genomes of *Oonephris obesa*; Phylogenetic affiliation of *Dispora speciosa*.

S-SU 2017. Emily Norman; AC ('20) – summer research fellow and volunteer.

Project: Algal floras of Carver Pond and Hawley Bog compared to historical data.

1 poster presentation – Nat. Sci. Student Research Poster Session Sept. 2017.

SU 2017. Madison Ireland; Northbridge High School– volunteer.

Project: Biodiversity of soil algae along a north-south transect.

S 2017. Volunteers Luke Chlastawa ('18), Madison Soullier ('20), Charlotte Allen ('20); AC.

Project: Algal flora of selected New England wetlands.

F 2014 - F 2015. •Mariedonica Canieso and Allison Kallberg, UConn.

Projects: Cell wall composition in selected green algae; Desiccation tolerance in *Scenedesmus*.

SU 2014. Audrey Farwagi, LeMoyne College.

Project: Mitochondrial genomes in the family Hydrodictyaceae; advisor: Hilary McManus.

1 coauthored publication.

SU 2012 - S 2014. Alexis Cordone, UConn.

Project: Species identification of oomycete infections in New England salamander eggs.

1 coauthored publication, 1 poster presentation.

S 2013. •Wilda Merant, UConn.

Project: Species diversity in the genus *Bracteacoccus*.

Awarded \$450 from UConn Office of Undergraduate Research (OUR).

F 2008 - S 2010. Jared Rada, UConn.

Project: Molecular systematics of coccoid green algae.

Awarded \$415 from UConn OUR, 2 coauthored publications, 1 poster presentation.

SU 2007 - S 2010. •Chien Lo, UConn.

Project: Barcoding-based identification of green algae.

1 coauthored publication, 1 poster presentation; currently a practicing Pharm.D.

SU 2007. •Miracle Tali, UConn Summer Research Program for Minority Students.

Project: Characterizing green algae in desert soil crusts.

1 poster presentation.

GRANTS AND AWARDS

Awarded:

2019 \$1,000 Mehrhoff Research Award (New England Botanical Club)

2019 \$4,000 Faculty Development Grant (Assumption College)

2018	\$7,000	Honors Research Summer Fellowship (Assumption College)
	\$2,000	Natural History Research Grant (Western North American Naturalist)
2017	\$4,500	Faculty Development Grant (Assumption College)
2015	\$1,013	Mehrhoff Research Award (New England Botanical Club)
2011	\$400	Hoshaw Travel Award (Phycological Society of America)
2008	\$1,400	Civic Engagement Grant (CT Campus Compact): awarded to “Green Grads”
2005	\$100	Best graduate student poster (Microscopical Society of Northeast Ohio)

Submitted, not funded:

2018	NSF Dimensions of Biodiversity sub-award (through New Mexico State U.).
2018	Phycological Society of America – Norma J. Lang Fellowship.

PROFESSIONAL SKILLS

- DNA sequencing (Sanger) and related molecular genetic methods.
- High throughput sequencing (Illumina platform).
- Bioinformatics: genomic, metagenomic and transcriptomic applications.
- Bayesian and frequentist phylogenetics.
- Photomicroscopy with bright field, phase contrast, and Nomarski DIC optics, fluorescent microscopy.
- Scientific illustration, use of Adobe Photoshop and Illustrator.
- Preparation of herbarium specimens, georeferencing, databasing (BGBase, iNaturalist).
- Transmission Electron Microscopy, Scanning Electron Microscopy.
- Field methods in botany and phycology.
- Isolation and maintenance of algal and cyanobacterial cultures.
- Usage and basic maintenance of GC/MS.

PEER-REVIEWED PUBLICATIONS (* = undergraduate author)

- Neupane S, **Fučíková K**, Lewis LA, Kuo L, Chen M-H, Lewis PO. In press. Assessing combinability of phylogenomic data using Bayes factors. **Systematic Biology**.
- Kaštovský J, **Fučíková K**, Veselá J, Brewer-Carías C, Vegas-Vilarrúbia T. In press. Algae. In Biodiversity of Pantepui: the pristine ‘Lost World’ of the Neotropical Guiana Highlands [Eds. Rull V, Vegas Vilarrúbia T, Huber O, Señaris J]. Elsevier, Cambridge, USA.
- Fučíková K**, Lewis PO, Neupane S, Karol KG, Lewis LA. Order, please! 2019. Uncertainty in the ordinal-level classification of Chlorophyceae. **PeerJ** 7: e6899.
- Greguske E, *Nadeau A, *Fitzmeyer E, **Fučíková K**. 2018. Genome annotation of *Bacillus* phage Saddex. **Microbiology Resource Announcements** 7: e01044-18.
- Saber AA, **Fučíková K**, McManus HA, Guella G, Cantonati M. 2018. Novel green algal isolates from the Egyptian hyper-arid desert oases: a polyphasic approach with a description of *Pharao desertorum* gen. et sp. nov. (Chlorophyceae, Chlorophyta). **Journal of Phycology** 54: 342-357.
- McManus HA, **Fučíková K**, Lewis PO, Lewis LA, Karol KG. 2018. Organellar phylogenomics inform systematics in the green algal family Hydrodictyaceae (Chlorophyceae) and provide clues to the complex evolutionary

- history of plastid genomes in the green algal Tree of Life. **American Journal of Botany** 105: 315–329. Invited article for the special issue: Using and Navigating the Plant Tree of Life.
- Štenclová L, **Fučíková K**, Kaštovský J, Pažoutová M. 2017. Molecular and morphological delimitation and generic classification of the family Oocystaceae. **Journal of Phycology** 53: 1253–1282.
- Fučíková K**, Lewis LA, Lewis PO. 2016. Comparative analyses of chloroplast genome data representing nine green algae in Sphaeropleales (Chlorophyceae, Chlorophyta). **Data in Brief** 7: 558–570.
- Fučíková K**, Lewis PO, Lewis LA. 2016. Chloroplast phylogenomic data from the green algal order Sphaeropleales (Chlorophyceae, Chlorophyta) reveal complex patterns of sequence evolution. **Molecular Phylogenetics and Evolution** 98: 176–183.
- Watanabe S, **Fučíková K**, Lewis LA, Lewis PO. 2016. Hiding in plain sight: *Koshicola spirodelophila* gen. et sp. nov. (Chaetopeltidales, Chlorophyceae), a novel green alga associated with the aquatic angiosperm *Spirodela polyrhiza*. **American Journal of Botany** 103: 865–875.
- Lewis PO, Chen M-H, Kuo L, Lewis LA, **Fučíková K**, Neupane S, Wang Y-B, Shi D. 2016. Estimating Bayesian phylogenetic information content. **Systematic Biology** 65: 1009–1023.
- Kaštovský J, Veselá J, Bohunická M, **Fučíková K**, Štenclová L, Brewer-Carías C. 2016. New species of cyanobacteria, green algae and diatoms from the table mountain Churi-tepui, Chimantá Massif (Venezuela). **Phytotaxa** 247: 153–180.
- Fučíková K**, Lahr DJG. 2016. Uncovering cryptic diversity in two amoebozoan species using complete mitochondrial genome sequences. **Journal of Eukaryotic Microbiology** 63: 112–122.
- Fučíková K**, Johansen JR, Hall JD. 2015. Contribution to the desmid flora of Southeastern Maine. **Journal of the Torrey Botanical Society** 142: 166–178.
- Rangel TF, Colwell RK, Graves GR, **Fučíková K**, Rahbek C, Diniz-Filho JAF. 2015. Phylogenetic Uncertainty Revisited: Implications for Ecological Analyses. **Evolution** 69: 1301–1312.
- Fučíková K**, Pažoutová M, Rindi F. 2015. Meiotic genes and sexual reproduction in the green algal class Trebouxiophyceae (Chlorophyta). **Journal of Phycology** 51: 419–430.
- Fučíková K**. 2015. A new record of the rare freshwater red alga *Tuomeya americana* (Batrachospermaceae, Rhodophyta) from Connecticut. **Rhodora** 117: 342–353.
- Varol M., **Fučíková K**. 2015. Four new records for the freshwater algae of Turkey. **Journal of Limnology and Freshwater Fisheries Research** 1: 83–88.
- *Farwagi A, **Fučíková K**, McManus HA. 2015. Phylogenetic patterns of gene rearrangements in four mitochondrial genomes from the green algal family Hydrodictyaceae (Sphaeropleales, Chlorophyceae). **BMC Genomics** 16: 826.
- Urban M, Lewis LA, **Fučíková K**, *Cordone A. 2015. Population of origin and environment interact to determine oomycete infections in spotted salamander populations. **Oikos** 124: 274–284.
- Fučíková K**. 2015. A new record of the rare alga *Pachycladella* (Chlorophyceae) in New England. **PhytoKeys** 56: 19–27.
- Fučíková K**, Lewis PO, González-Halphen D, Lewis LA. 2014. Gene arrangement convergence, diverse intron content, and genetic code modifications in mitochondrial genomes of Sphaeropleales (Chlorophyta). **Genome Biology and Evolution** 6: 2170–2180.

- Fučíková K**, Leliaert F, Cooper ED, Škaloud P, D'Hondt S, De Clerck O, Gurgel CFD, Lewis LA, Lewis PO, Lopez-Bautista JM, Delwiche CF, Verbruggen H. 2014. New phylogenetic hypotheses for the core Chlorophyta based on chloroplast sequence data. **Frontiers in Ecology and Evolution** 2: 63.
- Fučíková K**, Lewis PO, Lewis LA. 2014. Putting *incertae sedis* taxa in their place: a proposal for ten new families and three new genera in the Sphaeropleales. **Journal of Phycology** 50: 14-25, selected for Algae Highlight.
- Fučíková K**, Lewis PO, Lewis LA. 2014. Widespread desert affiliations of trebouxiophycean algae (Trebouxiophyceae, Chlorophyta) including discovery of three new desert genera. **Phycological Research** 62: 294-305.
- Fučíková K**, Flechtner VR, Lewis LA. 2013. Revision of the genus *Bracteacoccus* Tereg (Chlorophyceae, Chlorophyta) based on a phylogenetic approach. **Nova Hedwigia**: 96:15–59.
- Tippery NP, **Fučíková K**, Lewis PO, Lewis LA. 2012. Probing the monophyly of the Sphaeropleales (Chlorophyceae) using data from five genes. **Journal of Phycology** 48: 1482–1493.
- McManus HA, Lewis LA, **Fučíková K**, Haugen P. 2012. Invasion of protein coding genes by green algal ribosomal group I introns. **Molecular Phylogenetics and Evolution** 62:109-116.
- Fučíková K**, Lewis LA. 2012. Intersection of *Chorella*, *Muriella* and *Bracteacoccus*: Resurrecting the genus *Chromochloris* Kol & Chodat (Chlorophyceae, Chlorophyta). **Fottea** 12:83-93.
- Rodríguez-Salinas E, Li Z, **Fučíková K**, Lewis LA, Brand JJ, González-Halphen D. 2012. Lineage-specific fragmentation and nuclear relocation of the mitochondrial *cox2* gene in green algae (Chlorophyta, Chlorophyceae). **Molecular Phylogenetics and Evolution** 64:166–176.
- Fučíková K**, *Rada JC, Lukešová A, Lewis LA. 2011. Cryptic diversity within the genus *Pseudomuriella* Hanagata (Chlorophyta, Chlorophyceae, Sphaeropleales) assessed using four barcode markers. **Nova Hedwigia** 93:29-46.
- Bohunická M, Johansen JR, **Fučíková K**. 2011. *Tapinothrix clintonii* sp. nov. (Pseudanabaenaceae, Cyanobacteria), a new species at the nexus of five genera. **Fottea** 11:127-140.
- Kaštovský J, **Fučíková K**, Hauer T, Bohunická M. 2011. Microvegetation on the top of Mt. Roraima, Venezuela. **Fottea** 11:171-186.
- Fučíková K**, *Rada JC, Lewis LA. 2011. The tangled taxonomic history of *Dictyococcus*, *Bracteacoccus*, and *Pseudomuriella* (Chlorophyceae, Chlorophyta) and their distinction based on a phylogenetic perspective. **Phycologia** 50:422-429.
- Johansen JR, Kováčik L, Casamatta DA, **Fučíková K**, Kaštovský J. 2011. Utility of 16S-23S ITS sequence and secondary structure for recognition of intrageneric and intergeneric limits within cyanobacterial taxa: *Leptolyngbya corticola* sp. nov. (Pseudanabaenaceae, Cyanobacteria). **Nova Hedwigia** 92:283-302.
- Hall JD, **Fučíková K**, *Lo C, Lewis LA, Karol KG. 2010. An assessment of proposed DNA barcodes in freshwater green algae. **Cryptogamie-Algologie** 31: 529-555.
- Fučíková K**, Kaštovský J. 2009. *Vincularia roraimae* (Zygnematophyceae, Desmidiaceae), gen. et sp. nov. from the top of Mt. Roraima, Venezuela. **Nova Hedwigia** 88:49-56.
- Fučíková K**, Hall JD, Johansen JR, Lowe RL. 2008. Bibliotheca Phycologica 113: Desmid flora of the Great Smoky Mountains National Park, USA. J. Cramer, Berlin, Stuttgart. 59 pp.
- Johansen JR, Olsen CE, Lowe RL, **Fučíková K**, Casamatta DA. 2008. *Leptolyngbya* species from selected seep walls in the Great Smoky Mountains National Park. **Algological Studies** 126:21-36.

Johansen JR, Lowe RL, Carty S, **Fučíková K**, Olsen CE, Fitzpatrick MH, Ress JA, Furey PC. 2007. New algal species records for Great Smoky Mountains National Park, with an annotated checklist of all reported algal taxa for the park. **Southeastern Naturalist** 6(sp1):99-134.

Johansen JR, **Fučíková K**, Fitzpatrick MH, Lowe RL. 2005. The red algal genus *Rhodospira* (Bangiophycidae, Rhodophyta): first report from North America. **Journal of Phycology** 41:1281-1283.

PENDING PUBLICATIONS

Velotta JP, Funk EC, **Fučíková K**, McCormick SD, Schultz ET. Evolutionary consequences of land-locking to osmotic balance and gene expression of intestinal *aquaporin-1* in the ancestrally anadromous Alewife (*Alosa pseudoharengus*). In major revision, to be resubmitted to **Journal of Comparative Physiology B**.

Štenclová L, **Fučíková K**. *Dispora speciosa*, a new addition to the genus *Parallela* and the first coccoid member of the family Microsporaceae. Submitted to **Phytotaxa**.

POPULAR SCIENCE PUBLICATIONS

Farkas T, **Fučíková K**, Caskenette A, Cisneros L, Medina R, Sezen U, Wade E. 2015. UConn BioBlitz 2015 Post-Blitz Report. Connecticut Wildlife 35: 14-15.

Fučíková K. 2015. Komu se nelení, tomu se červení: zelená řasa *Trentepohlia* na Vysočině. Sborník Muzejního Spolku v Třešti. 1/205: 28-31. (in Czech)

INVITED PRESENTATIONS

2017 Green algae out of their element (or are they?). Symposium on terrestrial algae at the 71st Annual Meeting of the Phycological Society of America, Monterey, CA.

2017 Fantastic algae and where to find them. Biology Department Seminar Series, Clark University, Worcester, MA.

2016 Deciphering DNA: Tackling fundamental questions about algae using bioinformatics. Minority Biomedical Research Support seminar, California State University Dominguez Hills, Carson, CA.

2014 Mitochondrial genome evolution in green algae: a balance between variation and conservation. Botany Dept., University of Melbourne, Victoria, Australia.

2013 Big words, small critters: mitochondrial peculiarities of the Chlorophyceae. Academy of Natural Sciences of Drexel University, Philadelphia, PA.

2013 Some assembly required: the green algal tree of life. International Phycological Congress, Orlando, FL.

2009 Ecological, activist & community involvement – Opening plenary speaker, 21st Annual Conference on Women & Gender, Storrs, CT.

OTHER PRESENTATIONS (only posters and talks presented by me are included)

2019 Northeast Algal Symposium, Salem, MA (poster with undergrad coauthor Aleeza Isaac '20).

- 2018 Northeast Algal Symposium, New Haven, CT (poster).
Phycological Society of America/International Society of Protistologists, Vancouver, BC, Canada (poster with undergrad coauthor Melissa Taylor '18).
- 2017 Northeast Algal Symposium, Carroll, NH (poster).
- 2015 Society for Molecular Biology and Evolution, Vienna, Austria.
- 2014 Northeast Algal Symposium, Newport, RI; Joint Aquatic Sciences Meeting, Portland, OR.
- 2012 Phycological Society of America, Charleston, SC; Northeast Algal Symposium, Winter Harbor, ME.
- 2011 Phycological Society of America, Seattle, WA.
- 2010 Evolution 2010, Portland, OR; Phycological Society of America, East Lansing, MI; Northeast Algal Symposium, Bristol, RI.
- 2009 International Phycological Congress, Tokyo, Japan (poster).
- 2008 Graduate Research Symposium, Storrs, CT.
- 2007 Northeast Algal Symposium, Narragansett, RI.
- 2005 Microscopical Society of Northeast Ohio, University Heights, OH (poster).
- 2004 All Taxa Biodiversity Inventory, Gatlinburg TN (poster).

SERVICE AT ASSUMPTION COLLEGE

- 2019 Study abroad site visit to Murdoch University (Perth, Western Australia) and University of Wollongong (Wollongong, New South Wales) to learn about opportunities for AC students.
Hosted 6th grade students from a Flagg Elementary School in BIO 160.
Led short tours of teaching and research laboratories for local 5th graders.
- 2018-present Member of Faculty Development Committee.
Member of Curriculum Committee.
Liaison to the Marine Studies Consortium.
Managing the Bio-Phys Sciences Department Instagram account (@assumption_science).
- 2017-present Institutional Review Board member.
- 2016-present Represented the Natural Sciences Dept. at fall and spring Admissions events on and off campus; hosted multiple recruits and prospective students in classes.
- 2018 Member of Faculty Learning Community panel on web presence and website curating.
Contributed to admissions recruitment initiative by emailing prospective students.
Planned, organized and led a sample laboratory experience for Nat. Sci. Academic Spotlight.
Composed a poster to represent the Natural Sciences department at events.
Honors thesis committee member for Rafael Hamawi (advisor: David Crowley).
Hosted SPA 381 CSL (coordinated by E. Loustaunau) in BIO 160 lab – teenagers from the Unaccompanied Refugee Minors Program at Ascentria Care Alliance.
- 2016 Honors thesis committee member for Lauren O'Connor (advisor: Laura Marcotte).

OTHER SERVICE

- 2019 Phycological Society of America – member of Education Committee (volunteered).
- 2018-19 Northeast Algal Society executive committee – member at large (elected).
Phycological Society of America – member of the Editorial Board of Journal of Phycology (elected).
- 2018 International Phycological Society – member of the Christensen Prize committee.
Connecticut Institute of Water Resources ad-hoc grant proposal reviewer.
- 2017 National Science Foundation ad-hoc grant proposal reviewer, Division of Environmental Biology.
Judge for graduate oral presentation awards at Northeast Algal Symposium.
Contributor to the NEAS Phycology Lab Manual (Bioinformatics exercise).
Participant of Faculty Service Day at Noonday Farm.
- 2016 Grant proposal reviewer – Mini-ARTS grants, Society of Systematic Biologists.
- 2013-15 Member of the Communications Committee of Phycological Society of America, manager of the PSA twitter account ([@PSAAlgae](#)).
- 2012-14 Judge for the graduate and undergraduate poster awards at Northeast Algal Symposium.
- 2010-11 Chief Financial Officer of the EEB Graduate Student Association.
- 2010-11 Senator in the UConn Graduate Student Senate; Finance Committee member.
- 2009-11 Co-organizer of Graduate Research Symposium, EEB Dept., UConn.
- 2009-10 Chief Organization Officer of the EEB Graduate Student Association.
- 2008-11 Co-organizer of waste-reduction program (“Give and Go”).

BROADER IMPACTS AND SCIENCE OUTREACH

- 2019 NH Science Olympiad volunteer (Disease Detectives exam proctor and grader).
Charles Barrows STEM Academy 2019 Bioblitz participant and data collector.
- 2018 NH Science Olympiad volunteer (Ecology exam proctor and grader).
Charles Barrows STEM Academy 2018 Bioblitz participant (with A. Isaac and E. Kessinger).
Berkshire Bioblitz participant (with Karly Stallworth, class of '21)
Skype a Scientist – talked to the robotics club at Stanley Middle School, NC, about algae and plants that could be grown in space.
- 2017 NH Science Olympiad volunteer (Invasive Species exam proctor and grader).
Charles Barrows STEM Academy 2017 Bioblitz participant (with M. Taylor and E. Norman).
Mentor of Northbridge High School student Madison Ireland in research on soil algae.
Participant in City of Worcester’s cyanobacteria monitoring.
- 2016 CT State Bioblitz organizer.
Charles Barrows STEM Academy 2016 Bioblitz participant.
- 2015 UConn Bioblitz – steering committee member, chair of logistics subcommittee.
Charles Barrows STEM Academy 2015 Bioblitz – planning and participation.
iNaturalist taxonomic curator (to present).
- 2012,14,17 Berkshire Bioblitz participant.
- 2013 White Memorial Bioblitz participant.
- 2007, 09 CT State Bioblitz participant.

PROFESSIONAL ASSOCIATIONS

- Member: New England Botanical Club, Phycological Society of America, Northeast Algal Society.
- Editor: Phytotaxa - section editor for non-diatom freshwater algae (2016 - 2018).
- Reviewer: Molecular Biology and Evolution, Genome Biology and Evolution, American Journal of Botany, Molecular Phylogenetics and Evolution, Nova Hedwigia, Journal of Phycology, Phycological Research, Phycologia, Journal of Systematics and Evolution, Acta Societatis Botanicorum Poloniae, Phytotaxa, Phytokeys, PLoS One, Algae, Fottea, Journal of Eukaryotic Microbiology, Cryptogamie–Algologie, New Zealand Journal of Botany, Genes.