

# GRACE M. WILKINSON

226C Hasler Lab of Limnology  
680 North Park Street  
Madison, WI 53706 USA

gwilkinson@wisc.edu  
(608) 262-3014

<https://wilkinsonlimnolab.weebly.com/>

## PROFESSIONAL APPOINTMENTS

<b>Associate Professor</b> University of Wisconsin – Madison Department of Integrative Biology, Center for Limnology	2023 – present
<b>Assistant Professor</b> University of Wisconsin – Madison Department of Integrative Biology, Center for Limnology	2021 – 2023
<b>Assistant Professor</b> Iowa State University (Ames, Iowa) Department of Ecology, Evolution & Organismal Biology Department of Natural Resource Ecology & Management	2017 – 2020
<b>Postdoctoral Researcher</b> Department of Environmental Science University of Virginia, Charlottesville, Virginia	2015 – 2016

## EDUCATION

<b>Doctor of Philosophy</b> Environmental Science University of Virginia, Charlottesville, Virginia	2015
<b>Bachelor of Arts</b> Biology Major, Environmental Studies Minor Saint Olaf College, Northfield, Minnesota	2010

## HONORS & AWARDS

Early Career Fellow of the Ecological Society of America (2022 – 2026)	2022
Fellow of the Association for the Sciences of Limnology & Oceanography	2017
Environmental Sciences Excellence Award, University of Virginia	2015

## FUNDING

### EXTERNAL GRANTS

<b>National Science Foundation – DEB</b> (\$1,010,521 total, \$611,389 to Wilkinson) Collaborative Research: Comparison of Resilience Using Whole-Ecosystem Manipulations (Lead PI: Wilkinson, co-PIs: Pace, Carpenter)	2023 – 2026
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<b>Iowa Department of Natural Resources</b> (\$73,942) "Internal Phosphorus Loading in Iowa Lakes: Causes, Consequences, and Management Recommendations" (PI: Wilkinson)	2021 – 2022
<b>National Science Foundation – DEB</b> (\$776,673) "CAREER: Control Points on Nutrient Cycling in Hypereutrophic Lakes" (PI: Wilkinson), Abstract: <a href="https://bit.ly/38lhCUc">https://bit.ly/38lhCUc</a>	2020 – 2024
<b>National Science Foundation – OAC</b> (\$275,430 total, \$136,115 to Wilkinson) "EAGER Collaborative Research: Synchronization between terrestrial & aquatic ecosystems" (Lead PI: Wilkinson, Co-PIs: Walter, Pace), Abstract: <a href="https://bit.ly/3wQ7Lze">https://bit.ly/3wQ7Lze</a>	2018 – 2020
<b>Iowa Department of Natural Resources</b> (\$459,138) "Quantifying phosphorus dynamics in shallow lakes" PI: Grace Wilkinson, Co-PI: Michael Weber (all funds to Wilkinson)	2018 – 2022
<b>Iowa Department of Natural Resources</b> (\$24,465) "Study of Green Valley Lake Stratification and Phosphorus Cycling"	2018 – 2019
<b>Center for Global &amp; Regional Environmental Research</b> (\$35,000) "Developing early warning tools of algal blooms in lakes"	2018 – 2019

### **INTERNAL GRANTS**

<b>WARF STEM Initiative</b> (\$897,000) "Methane emissions from freshwaters" Lead PIs: McMahon, Stanley, co-PIs: Dugan, Wilkinson	2023-2025
<b>Research Forward – Wisconsin Alumni Foundation</b> (\$476,632) "A Fresh Look at Lake Biophysics: Wave-Driven Processes Across Scales and Seasons" Lead PI: Pujara, Co-PIs: Bertram, Dugan, Franck, Wagner, Wilkinson, Zoet	2023 – 2025
<b>Research Forward – Wisconsin Alumni Foundation</b> (\$393,774) "LakeView: New Understanding of Lake Water Quality through Integrated Earth Observing Systems" Lead PI: Hanson, Co-PIs: McMahon, Townsend, Holz, Wilkinson	2023 – 2025

### **CONTRACTS**

<b>Iowa Department of Natural Resources</b> (\$560,209) "Ambient Lake Water Quality Monitoring 2018-2020"	2018 – 2020
<b>US Army Corps of Engineers, Rock Island District</b> (\$705,438) "Water quality monitoring of the Des Moines & Iowa Rivers" Lead PI: Wilkinson, Co-PIs: W. Crumpton & C. Rehmann	2018 – 2022
<b>Iowa Department of Natural Resources</b> (\$26,858) "Analytical Support of Shallow Lakes Monitoring Program"	2018 – 2019
<b>Iowa Department of Natural Resources</b> (\$188,465) "Ambient Lake Water Quality Monitoring 2017"	2017 – 2018
<b>Iowa Department of Natural Resources</b> (\$28,873) "Analytical Support of Shallow Lakes Monitoring Program"	2017 – 2018

<b>Iowa Department of Natural Resources</b> (\$24,150) "Plankton Analysis for Ambient Water Quality Monitoring 2016"	2017 – 2018
<b>Iowa Department of Natural Resources</b> (\$6,731) "Analytical Support of Wetland Monitoring Program"	2017 – 2018
<b>Iowa Department of Natural Resources</b> (\$4,500) "Sediment Core Analysis of Lake Geode, Iowa"	2017

## PUBLICATIONS

**GS** = Grad Student    **UG** = Undergrad    **PD** = Postdoc    **LM** = Lab Manager

### MANUSCRIPTS UNDER REVIEW

- <sup>GS</sup>Albright, EA, R Ladwig, **GM Wilkinson**. *In review*. Macrophyte-induced stratification mediates pond response to an aquatic heatwave. *Journal of Ecology*. Preprint: <https://doi.org/10.31223/X51M19>
- <sup>GS</sup>Butts, TJ, RA Johnson, MJ Weber, **GM Wilkinson**. *In review*. Experimental evaluation of aquatic ecosystem resistance and resilience to episodic nutrient loading. *Ecology*
- Wilkinson, GM**, <sup>GS</sup>TJ Butts, M Simonson, ML Weber. *In revision*. Experimental evaluation of the effects of bigmouth buffalo (*Ictiobus cyprinellus*) density on shallow lake ecosystems. *Canadian Journal of Fisheries and Aquatic Sciences*. Preprint: <https://doi.org/10.31223/X5R923>

### BOOK CHAPTERS

42. **Wilkinson, GM**, RA Johnson (2023) Eutrophication of Freshwater and Coastal Ecosystems. In the Encyclopedia of Sustainable Technologies, 2<sup>nd</sup> Edition, Springer.
41. **Wilkinson, GM**, <sup>GS</sup>EA Albright (2022). Phosphorus Cycling in Lacustrine Ecosystems. In the Encyclopedia of Inland Waters, 2<sup>nd</sup> Edition
40. **Wilkinson, GM** (2017) Eutrophication of Freshwater and Coastal Ecosystems. In the Encyclopedia of Sustainable Technologies, Springer.
39. Emery, KA, JA Gephart, **GM Wilkinson**, AF Besterman, ML Pace (2016) Modeling drivers of trophic cascades and food-web alterations in a lake ecosystems. *Learner-Centered Teaching Activities for Environmental and Sustainability Studies*. [https://link.springer.com/chapter/10.1007/978-3-319-28543-6\\_13](https://link.springer.com/chapter/10.1007/978-3-319-28543-6_13)

### JOURNAL ARTICLES

38. Walter, JA, **GM Wilkinson**, RA Johnson, JW Atkins, <sup>GS</sup>DA Ortiz.(2023) Toward a standardized method for quantifying ecosystem hot spots and hot moments. *Ecosystems*.
37. Simonson, M, **GM Wilkinson**, A Annear, MJ Weber (2023) Annual changes in water quality and sportfish community structure following commercial harvest of common carp and bigmouth buffalo. *Lake and Reservoir Management*
36. <sup>GS</sup>Shingai, QK, **GM Wilkinson**. (2023) The microcystin biogeochemical cycle: Pools, fluxes, and fates in inland waters. *Limnology & Oceanography Letters*, doi:

35. Beal, MJW, **GM Wilkinson**, PJ Block (2022) Large scale seasonal forecasting of peak season algae metrics in the Midwest and Northeast US. *Water Research* 229: 119402, doi: <https://doi.org/10.1016/j.watres.2022.119402>
34. Carpenter, SR, ML Pace, **GM Wilkinson**. (2022) DOC, grazers, and resilience of phytoplankton to enrichment. *Limnology & Oceanography Letters* 7: 466-474. doi: <https://doi.org/10.1002/lol2.10280>
33. <sup>GS</sup>Butts, TJ, <sup>PD</sup>EK Moody, **GM Wilkinson**. (2022) Contribution of zooplankton nutrient recycling and effects on phytoplankton size structure in a hypereutrophic reservoir. *Journal of Plankton Research* 44: 839-853. <https://doi.org/10.1093/plankt/fbac045>
32. <sup>GS</sup>Albright, EA, <sup>LM</sup>R Fleck, <sup>GS</sup>Q Shingai, **GM Wilkinson**. (2022) High inter- and intra-lake variation in sediment phosphorus pools in shallow lakes. *Journal of Geophysical Research – Biogeosciences* 127: e2022JG006817 <https://doi.org/10.1029/2022JG006817>
31. <sup>GS</sup> Albright, EA and **GM Wilkinson**. (2022) Sediment phosphorus speciation controls hot spots and hot moments of internal loading in a temperate reservoir. *Ecosphere* 13: e4201. <https://doi.org/10.1002/ecs2.4201>
30. **Wilkinson, GM**, JA Walter, CD Buelo, ML Pace (2022) No evidence of widespread algal bloom intensification in hundreds of lakes. *Frontiers in Ecology and the Environment* 20(1): 16-21. <https://doi.org/10.1002/fee.2421>
29. <sup>PD</sup> Moody, EK, <sup>GS</sup> TJ Butts, <sup>LM</sup> R Fleck, PD Jeyasingh, **GM Wilkinson** (2022) Eutrophication-driven eco-evolutionary dynamics indicated by differences in stoichiometric traits among populations of *Daphnia pulex*. *Freshwater Biology* 67: 353-364. <https://doi.org/10.1111/fwb.13845>
28. <sup>GS</sup> Ortiz, DA, **GM Wilkinson**. (2021) Capturing the spatial variability of algal bloom development in a shallow temperate lake. *Freshwater Biology* 66: 2064-2075. <https://doi.org/10.1111/fwb.13814>
27. Leung, T, **GM Wilkinson**, E Swanner. (2021) The role of iron availability during cyanobacteria dominance of algal blooms, as monitored by chlorophyll fluorescence. *Inland Waters* 11: 417-429. <https://doi.org/10.1080/20442041.2021.1904762>
26. Brookfield, A, A Hansen, PL Sullivan, J Czuba, MF Kirk, L Li, M Newcomer, **GM Wilkinson**. (2021) Predicting algal blooms: Are we overlooking groundwater? *Science of the Total Environment* 769: 144442. <https://doi.org/10.1016/j.scitotenv.2020.144442>
25. Walter, JA, **GM Wilkinson**, J Castons, <sup>LM</sup>R Fleck, ML Pace (2021) Temporal coherence between lake and landscape primary productivity. *Ecosystems* 24: 502-515. <https://doi.org/10.1007/s10021-020-00531-6>
24. <sup>GS</sup> Ortiz, DA, J Palmer, **GM Wilkinson** (2020) Detecting statistical early warning indicators of algal blooms in shallow eutrophic lakes. *Ecosphere* 11(10):e03200. <https://doi.org/10.1002/ecs2.3200>
23. Weber, M, **GM Wilkinson**, M Balmer, MC Bevil (2020) Environmental changes in eutrophic lakes following restoration. *Hydrobiologia* 847: 4469–4486. <https://doi.org/10.1007/s10750-020-04310-1>
22. Walter, JA, <sup>LM</sup> R Fleck, ML Pace, **GM Wilkinson** (2020) Scaling relationships between lake surface area and catchment area. *Aquatic Science* 82: Article 47. <https://doi.org/10.1007/s00027-020-00726-y>

21. **Wilkinson, GM**, JA Walter, <sup>LM</sup> R Fleck, ML Pace (2020) Beyond the trends: The need to understand multi-annual dynamics in aquatic ecosystems. *Limnology and Oceanography Letters* 5: 281-286. <https://doi.org/10.1002/lol2.10153>
20. <sup>PD</sup> Moody, EK, <sup>GS</sup> EA Albright, <sup>UG</sup> K Cope, R Fleck, H Grigel, <sup>GS</sup> DA Ortiz, **GM Wilkinson**. (2019) Taxonomic and geographic gaps in the functional importance of imperiled fishes. *Fish and Fisheries* 20: 795-801. <https://doi.org/10.1111/faf.12376>
19. <sup>PD</sup> Moody, E and **GM Wilkinson** (2019) Functional turnover of zooplankton communities in eutrophic lakes. *Freshwater Biology* 64: 608-616. <https://doi.org/10.1111/fwb.13246>
18. Pace, ML, SR Carpenter, **GM Wilkinson** (2019) Long term studies and reproducibility: Lessons from whole lake experiments. *Limnology and Oceanography* 64: 22-33. <https://doi.org/10.1002/lno.11012>
17. **Wilkinson, GM**, A Besterman, CD Buelo, JA Gephart, ML Pace (2018) A synthesis of modern organic carbon burial rates in coastal and inland ecosystems. *Scientific Reports* 8: 15736. <https://www.nature.com/articles/s41598-018-34126-y>
16. **Wilkinson, GM**, SR Carpenter, JJ Cole, ML Pace, RD Batt, CD Buelo, J Kurtzweil. (2018) Early warning signals precede cyanobacterial blooms in multiple whole-lake experiments. *Ecological Monographs* 88: 188-203. <https://doi.org/10.1002/ecm.1286>
15. Oreska, M, **GM Wilkinson**, KJ McGlathery, M Bost, BA McKee (2018) Non-seagrass carbon contributions to seagrass sediment blue carbon. *Limnology and Oceanography* 63 (S1): S3-S18. <https://doi.org/10.1002/lno.10718>
14. Tanentzap, AJ, BW Kielstra, **GM Wilkinson**, M Berggren, N Craig, PA del Giorgio, J Grey, JM Gunn, SE Jones, J Karlsson, CT Solomon, ML Pace (2018) Terrestrial support of lake food webs: synthesis reveals controls over cross-ecosystem resource use. *Science Advances* 3, e1601765. <https://doi.org/10.1126/sciadv.1601765>
13. Pace, ML, RD Batt, CD Buelo, SR Carpenter, JJ Cole, J Kurtzweil, **GM Wilkinson**. (2017) Reversal of a Cyanobacterial Bloom in Response to Early Warnings. *Proceedings of the National Academy of Sciences USA* 114: 352-357. <https://doi.org/10.1073/pnas.1612424114>
12. **Wilkinson, GM**, C Buelo, JJ Cole, ML Pace (2016) Exogenously produced CO<sub>2</sub> more than doubles the flux of greenhouse gases from three north temperate lakes. *Geophysical Research Letters* 43: 1996-2003. <https://doi.org/10.1002/2016GL067732>
11. Greiner, JT, KE Emery, **GM Wilkinson**, KJ McGlathery (2016) Identifying carbon source contributors to restored seagrass sediment. *Marine Ecology Progress Series* 551: 95-105. <https://doi.org/10.3354/meps11722>
10. Carpenter, SR, JJ Cole, ML Pace, **GM Wilkinson** (2016) Response of plankton to nutrients, planktivory, and terrestrial organic matter: A model analysis of whole-lake experiments. *Ecology Letters* 19: 230-239. <https://doi.org/10.1111/ele.12558>
9. **Wilkinson, GM**, JJ Cole, ML Pace, RA Johnson, <sup>UG</sup> M Kleinhans (2015) The contribution of biological and physical processes to the formation and persistence of oxygen maxima in lakes. *Limnology and Oceanography* 60: 242-251. <https://doi.org/10.1002/lno.10022>

8. **Wilkinson, GM**, JJ Cole, ML Pace (2015) The sensitivity of deuterium based allochthony estimates to the dietary water correction and lipid content. *Limnology and Oceanography: Methods* 13(5): 213-223. <https://doi.org/10.1002/lom3.10019>
7. Emery, KA, **GM Wilkinson**, <sup>UG</sup>FG Ballard, ML Pace (2015) Use of allochthonous resources by zooplankton in reservoirs. *Hydrobiologia* 758: 257-269. <https://doi.org/10.1007/s10750-015-2338-6>
6. Emery, KA, **GM Wilkinson**, VF Camacho-Ibar, ML Pace, KJ McGlathery, JM Sandoval-Gil, J Hernández-López (2015) Resource use of a cultured oyster (*Crassostrea gigas*) in the reverse estuary Bahía San Quintín, Baja California, Mexico. *Estuaries and Coasts* 39:866-874. <https://doi.org/10.1007/s12237-015-0021-9>
5. Batt, RD, SR Carpenter, JJ Cole, ML Pace, RA Johnson, JK Kurtzweil, **GM Wilkinson**. (2015) Altered energy flow in the food web of an experimentally darkened lake. *Ecosphere* 6: Article 33. <https://doi.org/10.1890/ES14-00241.1>
4. **Wilkinson, GM**, SR Carpenter, JJ Cole, ML Pace (2014) Use of deep autochthonous resources by zooplankton: Results of a metalimnetic addition of <sup>13</sup>C to a small lake. *Limnology and Oceanography* 59: 986-996. <https://doi.org/10.4319/lo.2014.59.3.0986>
3. <sup>UG</sup> Yang, C, **GM Wilkinson**, JJ Cole, SA Macko, ML Pace (2014) Determining the isotopic values of resource end members in freshwater food web studies. *Inland Waters* 4: 233-242. <https://doi.org/10.5268/IW-4.2.700>
2. **Wilkinson, GM**, ML Pace, JJ Cole (2013) Terrestrial dominance of organic matter in north temperate lakes. *Global Biogeochemical Cycles* 27: 43-51. <https://doi.org/10.1029/2012GB004453>
1. **Wilkinson, GM**, SR Carpenter, JJ Cole, ML Pace, <sup>UG</sup> C Yang (2013) Terrestrial support of pelagic consumers among lakes: Patterns and variability revealed from a multi-lake study. *Freshwater Biology* 58: 2037-2049. <https://doi.org/10.1111/fwb.12189>

### **TECHNICAL REPORTS, POLICY BRIEFS, ESSAYS**

5. <sup>PD</sup> Albright, EA, <sup>GS</sup> J Briggs, H Schlimm, **GM Wilkinson** (2023) Internal phosphorus loading in Iowa lakes: Causes, consequences, and management recommendations. Prepared for the Lake Restoration group of the Iowa Department of Natural Resources.
4. **Wilkinson, GM** and CD Buelo.(2022) Are algal blooms getting worse in lakes? Nelson Institute's Policy Issue series on Water Pollution.
3. **Wilkinson, GM** (2019) Report on the Study of Green Valley Lake Stratification and Phosphorus Cycling. Submitted to the Lake Restoration Program, Iowa Department of Natural Resources.
2. **Wilkinson, GM.** (2017) How Many Limnologists Does It Take to Fix the Plumbing? The Arising Researcher. *Bulletin of the Ecological Society of America* 98: 99-100. <https://doi.org/10.1002/bes2.1317>
1. **Wilkinson, GM** (2015) "The President's Speech". *Frontiers in Ecology and the Environment* 13: 283. <https://doi.org/10.1890/1540-9295-13.5.283>  
*Essay contest winner for ESA's 100<sup>th</sup> Anniversary Celebration*

## PLENARIES & SEMINARS

### INVITED PLENARIES

- 2022 31<sup>st</sup> Annual GRIL Symposium – Groupe de recherche Interuniversitaire en Limnologie (Montreal, Canada, ~150 attendees)
- 2022 US Symposium on Harmful Algae (virtual, ~230 attendees)
- 2021 North Central Water Network Harmful Algal Bloom Symposium (virtual, ~650 attendees)
- 2018 Iowa State Environmental Sciences Graduate Program Research Symposium

### DEPARTMENTAL SEMINARS

- 2022 University of Wisconsin – Madison, Center for Climatic Research Climate, People, Environment Seminar Series
- 2022 University of Wisconsin – Madison, Department of Integrative Biology Colloquium
- 2020 University of California Santa Barbara, Ecology, Evolution and Marine Science
- 2020 University of Wisconsin – Madison, Center for Limnology
- 2020 Cornell University, Department of Ecology and Evolutionary Biology
- 2019 Drake University, Environmental Sciences Seminar Series
- 2018 University of Notre Dame, Department of Biological Sciences Seminar Series
- 2018 University of Kansas, Ecology & Evolutionary Biology Seminar Series
- 2018 University of Iowa, Civil and Environmental Engineering Seminar Series
- 2017 Duke University, River Center in the Nicholas School Seminar Series
- 2017 University of California Santa Barbara, Marine Science Institute Seminar Series
- 2017 Iowa State, Civil & Environmental Engineering Water Resources Seminar Series
- 2016 University of Vermont, Rubenstein School of the Environment
- 2016 Iowa State University, Ecology, Evolution & Organismal Biology
- 2016 Longwood University, Biology Department Seminar Series
- 2016 University of Notre Dame Environmental Research Center Seminar Series
- 2015 Cary Institute of Ecosystem Studies Seminar Series
- 2014 Université du Québec à Montréal, GRIL Seminar Series
- 2014 University of Virginia, Dept. of Environmental Sciences Seminar Series

## PROFESSIONAL CONFERENCE PRESENTATIONS

### INTERNATIONAL & NATIONAL

- <sup>GS</sup> Butts, TJ, **GM Wilkinson** (2022) Food web structure mediates shallow lake response to pulse nutrient loading. *Ecological Society of America* (Montreal, Canada)
- Wilkinson, GM**, <sup>GS</sup> D Szydlowski, <sup>LM</sup> H Schlimm (2022) Mechanisms supporting methane hotspots at river-lake interfaces. *Joint Aquatic Sciences Meeting* (Grand Rapids, MI)
- <sup>GS</sup> Albright, EA, **GM Wilkinson** (2022) Seasonal and Spatial Variation in Sediment Phosphorus Fluxes in a Hypereutrophic Reservoir. *Joint Aquatic Sciences Meeting* (Grand Rapids, MI)
- <sup>GS</sup> Butts, TJ, <sup>PD</sup> EK Moody, **GM Wilkinson** (2022) Zooplankton Contribute Substantially to Early Summer Nutrient Recycling in a Hypereutrophic Reservoir. *Joint Aquatic Sciences Meeting* (Grand Rapids, MI)
- <sup>GS</sup> Szydlowski, DS, SR Carpenter, ML Pace, EH Stanley, **GM Wilkinson** (2022) Phytoplankton Response to Storm Events is Mediated by Antecedent Hydrologic Conditions. *Joint Aquatic Sciences Meeting* (Grand Rapids, MI)

- Johnson, RA, <sup>GS</sup> TJ Butts, S Hall, **GM Wilkinson** (2022) Greenhouse Gas Dynamics in Shallow Aquatic Ecosystems in Response to a Pulse Nutrient Addition. *Joint Aquatic Sciences Meeting* (Grand Rapids, MI)
- Pace, ML, CD Buelo, SR Carpenter, D Ha, DA Ortiz, EH Stanley, **GM Wilkinson** (2022) Threshold for Phytoplankton Blooms Indicated By Whole Lake Nutrient Additions. *Joint Aquatic Sciences Meeting* (Grand Rapids, MI)
- <sup>PD</sup> Moody, E, G Olson, **GM Wilkinson** (2021) The stoichiometry of lake restoration. *Society for Freshwater Science* (virtual)
- Olson, G, <sup>PD</sup> EK Moody, **GM Wilkinson** (2021) Defining and measuring 'successful' lake restoration. *Society for Freshwater Science* (virtual)
- Wilkinson, GM**, JA Walter, CD Buelo, ML Pace (2020) No evidence of widespread algal bloom intensification in hundreds of lakes. *American Geophysical Union* (virtual)
- <sup>GS</sup> Albright, EA, <sup>LM</sup> R Fleck, <sup>GS</sup> QK Shingai, **GM Wilkinson** (2020) Spatiotemporal complexity of internal P loading in temperate reservoirs. *American Geophysical Union* (virtual)
- <sup>GS</sup> Butts, TJ, MJ Weber, **GM Wilkinson** (2020) Food web structure mediates ecosystem resilience to storm pulses of nutrient loading. *American Geophysical Union* (virtual)
- <sup>GS</sup> Shingai, QK, **GM Wilkinson** (2020) Reframing the Microcystin Problem – A Biogeochemical Cycling Approach. *American Geophysical Union* (virtual)
- Johnson, RA, <sup>GS</sup> TJ Butts, S Hall, **GM Wilkinson** (2020) Response of GHG dynamics to pulse addition of nutrients in shallow lakes. *American Geophysical Union* (virtual)
- Wilkinson, GM**, JA Walter, <sup>LM</sup> R Fleck, ML Pace (2019) Synchronization among terrestrial and aquatic ecosystems. *ASLO Aquatic Sciences Meeting* (San Juan, Puerto Rico)
- <sup>GS</sup> Albright, EA, <sup>LM</sup> R Fleck, <sup>GS</sup> Q Shingai, **GM Wilkinson** (2019) Identifying hotspots of internal P loading in Iowa lakes. *ASLO Aquatic Sciences Meeting* (San Juan, Puerto Rico)
- <sup>GS</sup> Ortiz, DA, **GM Wilkinson** (2019) Detecting Early Warnings of Harmful Algal Blooms in Shallow Lakes. *ASLO Aquatic Sciences Meeting* (San Juan, Puerto Rico)
- <sup>LM</sup> Fleck, R, <sup>GS</sup> E Albright, <sup>LM</sup> H Grigel, <sup>PD</sup> E Moody, <sup>GS</sup> D Ortiz, J Walter, **GM Wilkinson** (2019) Predicting toxic algal blooms in lakes located in a highly eutrophic landscape. *ASLO Aquatic Sciences Meeting* (San Juan, Puerto Rico)
- <sup>PD</sup> Moody, E, <sup>GS</sup> T Butts, <sup>LM</sup> R Fleck, P Jeyasingh, **GM Wilkinson** (2019) From glycolysis to green lakes: Evolution of *Daphnia* alters ecosystem function in hypereutrophic lakes. *ASLO Aquatic Sciences Meeting* (San Juan, Puerto Rico)
- Hansen, C, **GM Wilkinson**, S Burian (2019) Developing and implementing an early warning system for HABs in Utah Lake. *ASLO Aquatic Sciences Meeting* (San Juan, PR)
- Wilkinson, GM**, J Walter, <sup>LM</sup> R Fleck, <sup>LM</sup> H Grigel, <sup>PD</sup> E Moody (2018) Predicting toxic algal blooms in eutrophic recreational lakes. *ASLO Summer Meeting* (Victoria, Canada)
- <sup>PD</sup> Moody, EK, **GM Wilkinson** (2018) Zooplankton stoichiometric trait responses to hypereutrophication. *Society of Freshwater Sciences* (Detroit, MI)
- [invited] Wilkinson, GM**, SR Carpenter, JJ Cole, ML Pace, RD Batt, CD Buelo, JK Kurtzweil (2017) Ecosystem Alarms: Early warnings of cyanobacterial blooms in lakes. *Ecological Society of America Annual Meeting* (Portland, OR)

- Wilkinson, GM**, SR Carpenter, JJ Cole, ML Pace, RD Batt, CD Buelo, J Kurtzweil (2017) Statistical early warning indicators predict algal blooms in lakes. *ASLO Aquatic Sciences Meeting* (Honolulu, HI)
- Pace, ML, **GM Wilkinson**, SR Carpenter (2017) Long term ecological research and reproducibility: Lessons from whole-lake experiments. *ASLO Aquatic Sciences Meeting* (Honolulu, HI)
- Besterman, A, **GM Wilkinson**, CD Buelo, J Gephart, ML Pace (2017) Comparing modern carbon burial in aquatic ecosystems. *ASLO Aquatic Sciences Meeting* (Honolulu, HI)
- Wilkinson, GM**, C Buelo, JJ Cole, ML Pace (2016) Exogenous CO<sub>2</sub> doubles emissions from three small north temperate lakes. *ASLO Summers Meeting* (Santa Fe, NM)
- Pace, ML, SR Carpenter, JJ Cole, RD Batt, **GM Wilkinson**, CD Buelo, J Kurtzweil (2016) A whole-lake test of early warnings: Reversal of a cyanobacteria bloom. *ASLO Summers Meeting* (Santa Fe, NM)
- Wilkinson, GM**, K Emery, V Camacho-Ibar, M Pace, K McGlathery, J Sandoval Gil, J Hernandez-Lopez (2016) Resource use of an aquacultured shellfish in the reverse estuary Bahía San Quintín, Baja California, México. *ASLO Ocean Sciences Meeting* (New Orleans, LA)
- Wilkinson, GM**, JJ Cole, ML Pace, RA Johnson, M Kleinhans (2015) The contribution of biological and physical processes to metalimnetic oxygen maxima in lakes. *ASLO Aquatic Science Meeting* (Granada, Spain)
- Pace, ML, RD Batt, C Buelo, SR Carpenter, JJ Cole, JJ Kurtzweil, **GM Wilkinson** (2015) Early warnings of phytoplankton blooms? A whole lake experiment. *ASLO Aquatic Science Meeting* (Granada, Spain)
- Carey, CC, JP Doubek, AB Gerling, KD Hamre, ZW Munger, **GM Wilkinson**, PA Gantzer, JC Little, ML Pace, ME Schreiber (2015) Whole-ecosystem oxygenation demonstrates that episodic anoxic events promote internal loading of metals and carbon burial in a eutrophic reservoir. *Ecological Society of America* (Baltimore, Maryland)
- [invited]** **Wilkinson, GM**, SR Carpenter, JJ Cole, ML Pace (2014) Use of deep algal resources by zooplankton: Results of a metalimnetic addition of <sup>13</sup>C to a small lake. *Joint Meeting of the British & French Ecological Societies* (Lille, France)
- Pace, ML, **GW Wilkinson**, JJ Cole, SR Carpenter (2014) Watershed inputs, aquatic food webs, and ecosystem stability. *Joint Meeting of the British & French Ecological Societies* (Lille, France)
- Wilkinson, GM**, SR Carpenter, JJ Cole, ML Pace (2014) Use of deep algal resources by zooplankton: Results of a metalimnetic addition of <sup>13</sup>C to a small lake. *Joint Aquatic Sciences Meeting* (Portland, OR)
- Wilkinson, GM**, SR Carpenter, JJ Cole, ML Pace, C Yang (2013) Terrestrial support of pelagic consumers among lakes: Patterns and variability revealed from a multi-lake study. *Ecological Society of America Annual Meeting* (Minneapolis, MN)
- Batt, RD, SR Carpenter, JJ Cole, ML Pace, RA Johnson, JK Kurtzweil, **GM Wilkinson** (2013) Altered energy flow in the food web of an experimentally darkened lake. *Ecological Society of America Annual Meeting* (Minneapolis, MN)

**Wilkinson, GM**, JJ Cole, ML Pace (2013) Terrestrial dominance of organic matter in north temperate lakes. *ASLO Aquatic Sciences Meeting* (New Orleans, LA)

Pace, ML, JJ Cole, SR Carpenter, **GM Wilkinson** (2013) Are inputs of terrestrial organic carbon to lakes large or small relative to primary production. *ASLO Aquatic Sciences Meeting* (New Orleans, LA)

**[invited] Wilkinson, GM**, JJ Cole, ML Pace (2012) Terrestrial dominance of organic matter in north temperate lakes. American Geophysical Union (San Francisco, CA)

Welter, JR, PC Furey, JA Cormier, AJ Rosendahl, BL Weigel, **GM Wilkinson** (2011) Abiotic and biotic constraints on nitrogen fixation and producer species assemblages in an N limited river ecosystem. *Ecological Society of America* (Austin, TX)

**Wilkinson, GM**, S Dunn, AP Hinrich, M Marty, SN Schmidt, J Schade (2010) Nitrogen dynamics along a moisture gradient in a restored wetland. *Joint Meeting of ASLO and NABS* (Santa Fe, NM)

Carpenter, LM, DWP Manning, EC Seybold, **GM Wilkinson**, JD Schade (2009) Winter snowpack effects on biogeochemical processes in a restored tallgrass prairie. *Ecological Society of America* (Albuquerque, NM)

## REGIONAL CONFERENCES

**Wilkinson, GM**, JA Walter, <sup>LM</sup> R Fleck, ML Pace (2019) Beyond the trends: The need to incorporate multiannual dynamic thinking in a wavy world. *Great Plains Limnology Conference* (Ames, IA)

<sup>GS</sup> Albright, EA, <sup>LM</sup> R Fleck, **GM Wilkinson** (2019) *Ex situ* measurements of gross internal phosphorus loading for shallow lakes and reservoirs. *Great Plains Limnology Conference* (Ames, IA)

<sup>GS</sup> Butts, T, <sup>LM</sup> E Sandry, M Weber, **GM Wilkinson** (2019) Does food web structure mediate ecosystem response to perturbations? A preliminary experiment. *Great Plains Limnology Conference* (Ames, IA)

<sup>GS</sup> Ortiz, DA, J Palmer, **GM Wilkinson** (2019) The Swan Lake story: regime shift prediction and detection in both space and time. *Great Plains Limnology Conference* (Ames, IA)

<sup>GS</sup> Shingai, QK, <sup>UG</sup> A Le Compte, **GM Wilkinson** (2019) Reframing the microcystin problem: A biogeochemical cycling approach. *Great Plains Limnology Conference* (Ames, IA)

<sup>UG</sup> Rosenboom, H, <sup>GS</sup> Q Shingai, **GM Wilkinson** (2019) Native and invasive macrophyte degradation rates and implications for nutrient availability. *Great Plains Limnology Conference* (Ames, IA)

<sup>UG</sup> Rasmussen, J, <sup>GS</sup> EA Albright, <sup>LM</sup> R Fleck, **GM Wilkinson** (2019) Spatial variability in equilibrium P release from sediments in a hypereutrophic reservoir. *Great Plains Limnology Conference* (Ames, IA)

**Wilkinson, GM**, <sup>GS</sup> E Albright, <sup>LM</sup> R Fleck (2018) Spatial variability of sediment phosphorus fractions in eutrophic shallow lakes. *Geological Society of America, North Central Chapter* (Ames, IA)

<sup>PD</sup> Moody, EK, <sup>GS</sup> E Albright, <sup>UG</sup> K Cope, <sup>LM</sup> R Fleck, <sup>LM</sup> H Grigel, <sup>GS</sup> D Ortiz, **GM Wilkinson** (2018) Severely underestimated impacts of fishes in North America's aridland aquatic ecosystems. *Desert Fishes Council Annual Meeting* (Death Valley, California)

- [invited] Wilkinson, GM** (2018) Predicting Harmful Algal Blooms. Prairie Lakes Conference (Okoboji, IA)
- PD** Moody, EK, **GM Wilkinson** (2018) Eutrophication Elicits Evolution: Variation in *Daphnia* Traits Links Glycolysis to Green Lakes. *Great Plains Limnology Conference* (Lawrence, KS)
- GS** Albright, EA, **LM** R Fleck, **GS** Q Shingai, **GM Wilkinson** (2018) Identifying potential hotspots of internal phosphorus loading in Iowa lakes. *Great Plains Limnology Conference* (Lawrence, KS)
- Wilkinson, GM**, J Walter, **GS** EA Albright, **LM** R Fleck, **LM** H Grigel, **PD** E Moody, **GS** D Ortiz, **UG** A Zmich (2018) Predicting toxic blooms in eutrophic lakes. *Great Plains Limnology Conference* (Lawrence, KS)
- GS** Butts, TJ, **GM Wilkinson** (2018) Changes in Zooplankton Communities Following Fishery Renovations. *Great Plains Limnology Conference* (Lawrence, KS)
- GS** Ortiz, DA, **GM Wilkinson** (2018) Detecting Early Warnings of Harmful Algal Blooms in Shallow Lakes. *Great Plains Limnology Conference* (Lawrence, KS)
- Wilkinson, GM**, A Besterman, JA Gephart, CD Buelo, ML Pace (2017) A synthesis of modern organic carbon burial rates in coastal and inland ecosystems. *Great Plains Limnology Conference* (Columbus, Missouri)
- PD** Moody, EK, **GM Wilkinson** (2017) Zooplankton stoichiometric trait responses to hypereutrophication. *Great Plains Limnology Conference* (Columbus, Missouri)
- LM** Fleck, R, **GM Wilkinson** (2017) Water quality effects of dredging in Iowa Lakes. *Great Plains Limnology Conference* (Columbus, Missouri)
- GS** Albright, E, **GM Wilkinson** (2017) Intra-lake variability in internal phosphorus loading potential. *Great Plains Limnology Conference* (Columbus, Missouri)
- GS** Ortiz, D, **GM Wilkinson** (2017) De-stratification from aeration: oxygen redistribution or metabolic reduction? *Great Plains Limnology Conference* (Columbus, Missouri)
- LM** Grigel, H, **GM Wilkinson** (2017) What explains the sudden decrease of cyanobacteria in Iowa lakes? *Great Plains Limnology Conference* (Columbus, Missouri)
- [invited] Wilkinson, GM** (2016) Ecosystem alarms: Searching for early warnings of large changes in lakes. Prairie Lakes Conference (Okoboji, IA)

## TEACHING

### UNDERGRADUATE COURSES

- 2021–2022 **Limnology: Conservation of Aquatic Resources** – UW-Madison  
2 credits, upper-level undergraduate lecture course every fall semester
- 2021–2022 **Limnology: Conservation of Aquatic Resources Lab** – UW-Madison  
3 credits, upper-level undergraduate lab-based course every fall semester
- 2017–2020 **Aquatic Ecology** – Iowa State University  
3 credits, upper level undergraduate and graduate students every fall semester
- 2017–2020 **Aquatic Ecology Lab** – Iowa State University  
1 credit, upper level undergraduate and graduate students every fall semester

2018 **Principles of Biology I** – Iowa State University (co-taught)  
3 credits, undergraduate majors and non-majors

### **GRADUATE COURSES**

2023 **Ecosystem Concepts** – UW-Madison  
3 credits, Zoology

2022 **Research Synthesis for Aquatic Science** – UW-Madison  
1 credit, Freshwater & Marine Sciences Graduate Seminar

2020 **North Temperate Ecology** – Iowa State University [cancelled due to COVID]  
2 credit, Ecology & Evolutionary Biology Graduate Field Trip Course

2019 **Science Communication** – Iowa State University  
1 credit, Ecology & Evolutionary Biology Graduate Seminar

## MENTORING

### **POSTDOCTORAL RESEARCHERS**

2022 Dr. Ellen Albright (now postdoc with WI DNR)

2017 – 2019 Dr. Eric Moody (now Assistant Professor at Middlebury College)

### **GRADUATE STUDENTS, MAJOR PROFESSOR**

2017 – 2019 **David Ortiz** (MS) Environmental Science at Iowa State University  
“Evaluation of temporal and spatial indicators of regime shifts in shallow lakes”

2017 – 2022 **Ellen Albright** (PhD) Freshwater & Marine Sciences, UW-Madison  
“Mechanisms of internal phosphorus loading in lentic ecosystems”

2018 – 2023 **Tyler Butts** (PhD) Freshwater & Marine Sciences, UW-Madison  
“Food web dynamics as a driver of shallow aquatic ecosystems”

2019 – 2021 **Quin Shingai** (MS) Environmental Science at Iowa State University  
“Investigating Microcystin Dynamics in Freshwater Ecosystems and Factors that Influence Nutrient Limitation of Phytoplankton Growth”

2021 – **Daniel Szydlowski** (PhD) Freshwater & Marine Sciences, UW-Madison  
“Ecosystem resilience to external perturbations”

2021 – **Jessica Briggs** (PhD) Freshwater & Marine Sciences, UW-Madison  
“Control points of carbon cycling under extreme nutrient enrichment”

### **GRADUATE COMMITTEE MEMBER**

#### **UW-Madison**

2023 – Jeremy Abel, Integrative Biology (PhD)

2023 – Hannah Curtis, Civil and Environmental Engineering (MS)

2023 – Cassandra Ceballos, Freshwater and Marine Science (PhD)

2023 – Ian Hart, Integrative Biology (PhD)

2023 – Emily Adler, Integrative Biology (PhD)

2022 – Adrianna Gorsky, Freshwater and Marine Science (PhD)

2022 – Ella Schmidt, Freshwater and Marine Science (PhD)

2021 – 2021 Marissa Kneer, Water Sciences Engineering (PhD)

2021 – 2022 Kathryn Schmidt, Microbial Doctoral Training Program (MS)

2020 – 2021 Angelo Cozzola, UW Freshwater & Marine Science (MS)

2021 – Laura Bates, Nelson Institute (PhD)

2020 – David Ortiz, UW Freshwater & Marine Science (PhD)  
2020 – Krys Kibler, UW Freshwater & Marine Science (PhD)

### **Iowa State University**

2022 – Psalm Amos, ISU Environmental Science (MS)  
2017 – 2019 Anya Belyaeva, ISU Environmental Science (PhD)  
2017 – 2021 Tania Leung, ISU Environmental Science (PhD)  
2017 – 2023 Martin Simonson, ISU Environmental Science (PhD)  
2017 – 2020 Derek Ballard, ISU Environmental Science (MS)  
2018 – 2022 Holly Curtinrich, ISU Environmental Science (PhD)  
2018 – 2021 Blake Mitchell, ISU Environmental Science (MS)  
2019 – Jerilyn Calaor, ISU Ecology and Evolutionary Biology (PhD)  
2019 – 2021 Xuewei Liang, ISU Environmental Science (MS)  
2019 – 2022 Katelyn Miller, ISU Environmental Science (MS)

### **UNDERGRADUATE STUDENTS**

2021 – 2022 **UW-Madison** – *\*Independent Research Credits*  
Emma Squires, Avery Leigh, Katie Bollini\*, Elizabeth Wix, Victoria Wright,  
Cami Schroeder, Logan Marion, Sofia Ferrer\*, Kayleigh Winston\*

2017 – 2020 **Iowa State University** – *\*Independent Research Credits*  
Kayla Wernsing\*, Allison Abel\*, Jean-Luc Del Valle\*, Anna Zmich\*, Kathryn  
Holmes\*, Emma Califf\*, Ashley Heins\*, Katie Cope, Elena Sandry, Ryan  
Wagner\*, Riley Barbour\*, Halle Rosenboom\*, Shania Walker\*, Katherine  
Hoepfner\*, Elizabeth Carlson\*, Adrianna Le Compte\*, Psalm Amos\*, Jenna  
Rasmusson\*, Quin Shingai\*, Sara Meyer, Lucas Krakow, James Thompson,  
Katherine Luzier, Casey McConnell, Riley Nylin, Kala Rogers, Brittany Howes,  
Karianna Fiebelkorn, Julia Schneller, Michael Tarnow, Matthew Kremer, Laurie  
Dams, Matthan Kots

2016 **University of Notre Dame Practicum in Field Environmental Biology**  
*Research Advisor*  
Audrey Thellman, Elizabeth McKay, Jonathan Stetler, Meredith Kadjeski

2011 – 2015 **University of Virginia** – Graduate Student Research Advisor  
Carol Yang, Maxwell Kleinhans, Joshua Whelan, Jonathan Torres, Flannery  
Ballard, Charles Hanley

## **PROFESSIONAL SERVICE**

### **EDITORIAL BOARDS**

2020 – present Associate editor, *Limnology and Oceanography*  
2019 – 2022 Subject-Matter editor, *Ecosphere*  
2016 *Ad hoc* Associate Editor, *Ecological Applications*

### **PEER-REVIEW ACTIVITY**

- *Aquatic Sciences*
- *Biology Letters*
- *Biogeochemistry*
- *Canadian Journal of Fisheries & Aquatic Sciences*
- *Chinese Journal of Oceanol & Limnology*
- *Ecology*
- *Ecology Letters*
- *Ecosphere*
- *Ecosystems*

- *Environmental Monitoring & Assessment*
- *Environmental Science & Technology*
- *Freshwater Biology*
- *Freshwater Sciences*
- *Frontiers in Ecology & the Environment*
- *Geophysical Research Letters*
- *Global Change Biology*
- *Hydrobiologia*
- *Journal of Animal Ecology*
- *JGR- Biogeosciences*
- *Journal of Hydrology*
- *Limnology & Oceanography*
- *Limnology & Oceanography Letters*
- *Limnology & Oceanogr: Methods*
- *Nature*
- *Nature Geosciences*
- *Proceedings of the National Academy of Sciences USA*
- *Oecologia*
- *Oikos*
- *Science*
- *Science of the Total Environment*
- *Water, Air and Soil Pollution*

### **GRANT REVIEW ACTIVITY**

- |      |   |
|------|---|
| 2023 | Panelist, NOAA NCOSS                                      |
| 2020 | Panelist, National Science Foundation (DEB)               |
| 2017 | Panelist, National Science Foundation (DEB)               |
| 2019 | <i>Ad hoc</i> Reviewer, National Science Foundation (DEB) |
| 2018 | <i>Ad hoc</i> Reviewer, National Science Foundation (DEB) |
| 2017 | <i>Ad hoc</i> Reviewer, National Science Foundation (DEB) |

### **MEETING ORGANIZATION**

- |             |   |
|-------------|---|
| 2023 – 2024 | Co-chair, ASLO Summer Meeting, Madison, WI  |
| 2020        | Co-organizer of special session, 'It's not easy being green: The ecology of hypereutrophic waters' ASLO Summer Meeting, cancelled due to COVID 19 |
| 2019        | Chair of the 2019 Great Plains Limnology Conference (Ames, IA)  |
| 2019        | Co-organizer special session, "Brave New World: The Ecology of Highly Impacted Water Bodies" ASLO Aquatic Sciences Meeting (San Juan, PR)         |
| 2019        | Chair of Contributed Session on "Regime Shifts" ASLO Aquatic Sciences Meeting (San Juan, Puerto Rico)   |
| 2016        | Co-organizer special session, "Fixing the Plumbing in the Inland Carbon Cycle" at the ASLO Summer Meeting (Santa Fe, New Mexico)                  |
| 2015 – 2016 | Scientific Organizing Committee, ASLO Summer Meeting (Santa Fe, NM)   |

### **SCIENTIFIC SOCIETY LEADERSHIP**

- |             |  |
|-------------|--|
| 2014 – 2017 | Member of the Board of Directors for the Association for the Sciences of Limnology and Oceanography (ASLO) |
| 2014 – 2017 | ASLO Meeting Mentor Program co-organizer and participant   |
| 2014 – 2017 | Co-founder and Co-chair, ASLO Student Activities Committee   |

## **UNIVERSITY SERVICE**

### **University of Wisconsin - Madison**

- |             |  |
|-------------|--|
| 2021 – 2024 | <i>Member at Large</i> , Water@UW Executive Committee      |
| 2023 – 2024 | Chair, Integrative Biology Climate and Diversity Committee |
| 2021 – 2023 | Integrative Biology Dept Climate and Diversity Committee   |

2021 CFL Assistant Director Search Committee

### ***Iowa State University***

2020 *Chair*, Ecology & Evolutionary Biology Grad Curriculum Committee  
2020 Diversity, Equity & Inclusion Committee, EEOB Department  
2020 COVID Response Leadership Team, EEOB Department  
2018 – 2020 Ecology & Evolutionary Biology Graduate Curriculum Committee  
2018 – 2019 EEOB Strategic Hiring Planning Committee member  
2018 – 2020 *Chair*, Fobes Ronald Lecture Series Committee Chair  
2018 – 2020 *Faculty Advisor*, Iowa Women in Natural Resources, student club

## **OUTREACH ACTIVITIES**

### ***GOVERNMENT AGENCY ENGAGEMENT***

2023 Member of Middleton Land Conservancy Council  
2022 Member of the Middleton Water Resources Management Commission  
2021 Illinois Lake Management Association (presentation, 42 attendees)  
2020 Iowa Nutrient Resource Center Seminar Series (presentation, ~40 attendees)  
2018 EPA Region 7 Harmful Algal Blooms Working Group (Webinar)  
2018 Member of Technical Advisory Board, Silver Lake Restoration Group  
2018 North Central Water Network (Webinar)  
2018 Iowa Water Conference (Ames, IA)  
2017 Iowa Public Health Conference (Des Moines, IA)  
2017 Iowa Water Resources Coordinating Council (Des Moines, IA)  
2017 Iowa Chapter of the American Fisheries Society (Ames, IA)  
2014 Delegate, US Congressional Visit Day for Science Funding

### ***PUBLIC ENGAGEMENT***

2023 Radio interview – WROT on harmful algal blooms  
2023 Interview with Capital Times on harmful algal blooms  
2023 Interview with Wisconsin State Journal on harmful algal blooms  
2023 Community Water Monitoring Network Spring Kick-Off Event  
2022 Garden Club of America Legislative Action Committee  
Workshop on Lakes and the Landscape  
2022 Grandparent’s University Limnology Course (co-instructor)  
2022 Rock River Coalition Yahara Watershed Volunteer Seminar  
2022 Founded and launched the ***CFL Community Water Monitoring Network***  
<https://cflwaternetnetwork.weebly.com/>

- Hosted three “Pond Exploration Days” in community parks in Madison during summer 2022
- Recruiting volunteers (n=12) to contribute to water monitoring of Madison urban waters as a part of ongoing NSF CAREER project
- Continuing education and capacity building of community volunteer network

2022 Wisconsin PBS University Lecture Series on Harmful Algal Blooms  
2022 Nelson Institute’s Earth Day Celebration, Panel on Wisconsin Water Problems

- 2021 PLATO Madison (senior education community)
- 2021 Wisconsin Public Radio "Central Time" call-in segment on harmful algal blooms (x2)
- 2021 SCUBA Diving for Aquatic Research, presentation to the Hoofers SCUBA club
- 2020 Association for the Preservation of Clear Lake Annual Meeting, keynote address (cancelled due to COVID pandemic)
- 2019 Green Valley Lake State Park Annual Stakeholders Meeting (Creston, IA)
- 2018 NRCS Eldred Sherwood Annual Stakeholders Meeting (Goodell, IA)
- 2016 Iowa Lakeside Laboratory Regents Seminar Series (public talk) (Okoboji, IA)

**EARLY CAREER COMMUNITY BUILDING**

- 2021 Panelist for "Aquatic Career Paths", *ASLO Aquatic Sciences Meeting*
- 2021 Abstract review for Society for the Advancement of Chicano and Native American Scientists (SACNAS)
- 2020 Travel Grant and Abstract Review for the Society for the Advancement of Chicano and Native American Scientists (SACNAS)
- 2020 Workshop on Science Communication for Iowa State Graduate & Professional Student Society
- 2019 Panelist for "How to Find Funding for Early Career Scientists" at ASLO Aquatic Sciences Meeting (San Juan, Puerto Rico)
- 2018 Mentor for the ISU Chapter of the Society for the Advancement of Chicano and Native American Scientists (SACNAS) Grant Writing Workshop
- 2018 Mentor for the Resume vs. CV workshop for undergraduate STEM Scholars, a learning community for under-represented minority students at ISU
- 2017 ASLO Multicultural Program Mentor at ASLO Meeting (Honolulu, Hawaii)
- 2016 Central Caribbean Marine Institute Research Experience for Undergraduates Workshop Series: How to write a scientific paper
- 2016 – 2021 Co-host of Major Revisions, an ecology podcast for early career scientists. Our show reaches more than 400 subscribers, with each episode averaging 400-500 listens. [www.majorrevisionsshow.com](http://www.majorrevisionsshow.com)