**Dr. Kendra Spence Cheruvelil, Ph.D.** (she/her/hers)

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*Last updated: 2025*

**Education**

Michigan State University, East Lansing, MI

Dual Ph.D. *Fisheries and Wildlife* & *Ecology, Evolutionary Biology, and Behavior*. August 2004

M.S. *Fisheries and Wildlife.* August 2000

The University of Rochester, Rochester, NY

B.S. *Ecology and Evolutionary Biology, Statistics Minor.* May 1997

**Academic Appointments**

Michigan State University, East Lansing, MI

Lyman Briggs College (75%) and Department Fisheries and Wildlife (25%)

*Core Faculty*: Ecology and Evolutionary Biology Program

*Affiliated Faculty*: Environmental Science and Policy Program

*Professor*, 2017-present

*Associate Professor*, 2012-2017

*Assistant Professor*, 2006-2012

Queen’s University Belfast, Northern Ireland, UK. 2013-2014

*Visiting Research Fellow,* School of Geography, Archeology, and Paleoecology

Michigan State University, East Lansing, MI. 2005 – 2006

*Visiting Assistant Professor,* Departments of Zoology/ Fisheries and Wildlife

Purdue University North Central (now Purdue Northwest), Westfield, IN. 2004 – 2005

*Assistant Professor,* Biology/Chemistry Section

**Michigan State University Academic Leadership Roles**

* *Dean,* Lyman Briggs College, November 2020 – present (Interim Nov. 2020 – Jan. 2021)
* *Director,* Institute for Biodiversity, Ecology, Evolution, and Macrosystems (IBEEM). 2021 - 2022
* *Special Advisor for Faculty Affairs & Belonging*, College of Agriculture & Natural Resources, Fall 2020
* *Associate Dean for Research and Faculty Affairs,* Lyman Briggs College, 2017 – 2019.
* *Faculty Excellence Advocate*,Lyman Briggs College, 2017 – 2018.
* *Founding Director,* Lyman Briggs College, Scholarship of Undergraduate Teaching and Learning Graduate (SUTL) Fellowship Program, 2016 – 2018.

**Honors & Awards**

* *William J. Beal Outstanding Faculty Award*, Michigan State University. 2021
* *Fellow,* Association for the Sciences of Limnology and Oceanography (ASLO). 2018
* *Research Exemplar*, Professionalism and Integrity in Research Project. 2017
* *Excellence Award in Interdisciplinary Scholarship*, Michigan State University Chapter of the Honor Society of Phi Kappa Phi. 2015 Theme: Promoting inclusive, ethical, and successful STEM teams[with K. Elliot, G. Montgomery, P. Soranno, I. Settles, and P.-N. Tan]
* *STEM Gateway Fellow*, Michigan State University. 2014-2016. Scholarship of Teaching & Learning Project:Assessing effects of a semester-long, course-based, authentic research experience on student learning in Intro Organismal Biology
* *Teacher-Scholar Award*. Michigan State University. 2012
* *Curricular Service-Learning and Civic Engagement Award,* Michigan State University. 2010 [with C. Fata-Hartley]
* *Environmental Faculty Fellow*, 2010-2011. Environmental Science and Policy Program.Theme: Climate change and coupled human and natural systems
* *Lilly Teaching Fellow,* Michigan State University. 2009-2010 Scholarship of Teaching and Learning Project:Assessing the impact of diverse base groups on student learning and attitudes in Intro Organismal Biology

**University-Level Service**

Advisory Committees and Steering Boards

Center for Interdisciplinary Research, Collaboration, Learning, and Engagement (CIRCLE), 2023 - present

Ethics Institute. 2022 - present

Future Academic Scholars in Teaching (FAST) Fellowship Program, 2009 – present

Center for Interdisciplinarity (C4I), 2020 - 2022

The Academic Advancement Network (AAN), 2018 – 2019

Leadership Search Committees

* Member, Associate Vice President for Residential Housing Services [Janet Lillie, Chair and Spellman & Johnson Group], 2025

Co-chair, Dean of the College of Natural Sciences [with Keith Promislow and Opus Partners], 2024

Co-chair, Dean of the College of Communication Arts & Sciences [with Bruno Takahashi and WittKieffer], 2023

Member, President of Michigan State University [with MSU Board of Trustees and Isaacson, Miller], 2023

* Chair, Associate Provost for Teaching and Learning Innovation, 2022
* Member, Assistant/Associate Dean for Undergraduate STEM Education [Jeff Grabill, Chair], 2021
* Assistant Dean for Student Success Initiatives and Director of the Neighborhood Student Success [with Korine Wawrzynski], 2018

Faculty Leadership Development Panels, Workshops, Presentations

Mentor, Academic Leadership Fellows Program, 2024-2025

Panelist, Promoting Institutional Equity: The Role of Individual Responsibility and Organizational Accountability, Leadership Institute Session April 18, 2025

Panelist, The Ethics of Academic Leadership, New Administrator Orientation January 8, 2025

Panelist, Understanding Your Role as Dean: Perspectives from Current Deans, New Deans Leadership Series, October 3, 2024

Panelist, Promoting Institutional Equity: The Role of Individual Responsibility and Organizational Accountability, April 5, 2024

Panelist, Understanding Your Role as Dean: Perspectives from Current Deans, New Deans Leadership Series, September 18, 2023

Panelist, Equitable decision making, Academic Leadership Institute, April 24, 2023

Panelist, Reflections from Campus Leaders, New Administrator Orientation, August 17, 2022

Panelist, Building Trust and Morale in a Changing Landscape, Academic Leadership Institute, March 3, 2022

**Leadership & Inclusive Excellence Development Programs**

* *Big Ten Academic Alliance Deans Leadership Program*, 2022. Intensive, cohort-based, half-year experience to develop the leadership and managerial skills of deans. Some sessions virtual, some in Chicago, IL.
* *Big Ten Academic Alliance Academic Leadership Program*,2018 – 2019. Intensive, cohort-based, year-long experience to develop the leadership and managerial skills of faculty. Some sessions at Michigan State University, others at Purdue University, University of Minnesota, and University of Illinois.
* *CyberAmbassadors Fellow*, 2019.NSF-funded training for facilitating team science practices and perspectives, Michigan State University, East Lansing, MI.
* *HERS Executive Leadership Institute* and *LUCE Program*, 2017.Comprehensive, 2-week leadership program that included: budgets/finance, inclusive excellence, institutional awareness, leadership principles, change management, career planning, and fundraising. The LUCE program builds capacity specifically for STEM Higher Education. Denver, Colorado.
* *Exploring Academic Leadership*, 2015 – 2017. Learning community that met monthly to discuss readings, interview leaders, and build leadership skills. Michigan State University Academic Advancement Network, East Lansing, MI.
* *Queer Inclusive Learning and Leadership* *Inclusion Training*, 2016. Michigan State University LBGTQ Resource Center, East Lansing, MI.
* *Gender & Sexuality 101 & Safe-Zone Facilitator Training*, 2011 – 2012. Michigan State University LBGTQ Resource Center, East Lansing, MI.
* *Opening Doors* Inclusion Training, 2010. Michigan State University College of Agriculture and Natural Resources, Tustin, MI.

**Currently Funded External Research Grants (past funding on page 19)**

U.S. National Science Foundation - Division of Environmental Biology, Macrosystems Biology and NEON-Enabled Science (MSB-NES) Program. MSB: *Quantifying the interactive effects of human disturbances on lake biota and harmful algal blooms at the continental scale.* Award Number 2406607 for $300,000; PIs: P. Hanly & K.S Cheruvelil; August 2024 - July 2026.

U.S. National Science Foundation – Division of Equity for Excellence in STEM, Education and Human Resources Core Research (ECR-EDU) Program. Collaborative Research: *Broadening participation of marginalized scholars in STEM: The longitudinal influence of early-career climate experiences on professional pathways*. Award Numbers: 2300710 and 2300709 for $2.5M total ($1,136,520 to MSU); PIs: K.S. Cheruvelil (Lead, MSU), K. Elliott & G. Montgomery (MSU); I. Settles (lead, UM) & E. Cech (UM); MSU sub-awards to Leslie Gonzales (UA) and Guizhen Ma (DSU); August 2023 – July 2028.

#### Invited Plenaries, Presentations, & Panels (contributed on page 23)

#### Presenter listed first except when indicated with § , which indicates co-presenters, students/post-docs italicized, KSC bolded;

**K.S. Cheruvelil.** Building a science community. BIOFAIR Data Network Workshop. Remote presentation given February 13, 2025.

**K.S. Cheruvelil.**Using the science of team science to advance convergence research. NSF Growing Convergence Research Remote Lecture Series. May 11, 2023.

**K.S. Cheruvelil.**Viewing shallow lakes from a landscape perspective. Plenary address at the 10th International Shallow Lakes Conference. Natal City, Brazil, 21-26 June 2020. Conference postponed until March 2021 due to COVID-19.Remote plenary address given March 1, 2021*.*

**K.S. Cheruvelil.**Using the science of team science to advance an inclusive macrosystems ecology. Keynote at the 2021 NSF Macrosystems Biology and NEON-enabled Science Principal Investigator Meeting. January 13, 2021. Presentation given remotely due to COVID-19.

**K.S. Cheruvelil.**Using the science of team science to advance biological synthesis. Invited speaker at the Biodiversity and Ecosystem Services Synthesis Centers Mini-Conference to commemorate the 20th Anniversary of the BIOTA/FAPESP Program, Brazil. November 11, 2020. Presentation given remotely due to COVID-19.

**K.S. Cheruvelil.**Lessons learned from LAGOS: Creating and using big data to understand lakes at broad scales of space and time. Keynote address at the Michigan Inland Lakes Convention. Grand Rapids, MI, September 17-18, 2020. Presentation given remotely due to COVID-19.

**K.S. Cheruvelil.** Ecological prediction at macroscales using big data: Does sampling design matter? Invited presentation in the special session: Data science for aquatic discovery and prediction: building a community of practice. At the Association for the Sciences of Limnology and Oceanography Summer Meeting, Madison, WI. June 2020. *Conference cancelled due to COVID-19.*

**K.S. Cheruvelil§** and P.A. Soranno**§** Fostering best practices and cultures that promote interdisciplinary research: Collaborative manuscript writing and publishing. Invited presentation to the University of Miami Laboratory for Integrative Knowledge, University of Miami, Miami, FL. January 30, 2020.

**K.S. Cheruvelil§**, P.A. Soranno**§**, K.C. Elliott, I.H. Settles, and G.M. Montgomery Strategies for effective team authorship decisions: Power dynamics, authorship policies, and team climate. Invited workshop facilitators. University of Miami Graduate School, University of Miami, Miami, FL. January 30, 2020.

**K.S. Cheruvelil.** Building skills for high-performing collaborative research teams. Invited workshop facilitator for the Environmental & Ecological Informatics T3 PhD Program, Northern Arizona University. Flagstaff, AZ, August 2019.

**K.S. Cheruvelil§**, L. Biomen**§**, G. Hubbs**§**, K. Hall**§**, P. Soranno**§**. and A. Vogel**§**. Collaborative Scientific Writing: Challenges and Strategies. Invited panelist at the 2019 Science of Team Science (SciTS) Conference, Lansing, MI. May 20-23, 2019.

**K.S. Cheruvelil§** and P.A. Soranno**§**. Studying science teams and conducting team science: Practitioners’ perspectives. Invited oral presentation at the Interdisciplinary Science Forum, Michigan State University, March 22, 2019.

*King, K.,* **KS.****Cheruvelil,** and A. Pollard. Lake, Wetland, and Stream Biotic and Abiotic Properties Have Similar Drivers and Spatial Structure at the National Scale. Invited oral presentation to 11th National Water Quality Monitoring Conference. Denver, CO. March 2019.

Soranno, P.A., **K.S. Cheruvelil**, and N.J. Smith. Developing a continental understanding of lakes at continental scales. Oral presentation to the NSF-funded workshop: A new paradigm in lake and reservoir research and management through global monitoring, modeling, and engaging and empowering people networks. Alexandria, VA. September 7, 2018.

*K. King*, A. Pollard, and **K.S. Cheruvelil**. The macroscale patterns of biota and water chemistry in lake, stream, and wetland ecosystems. Oral presentation for the USGS Great Lakes Science Center. March 2018.

**K.S. Cheruvelil.** The cultures and practices of 21st century data-intensive ecology: Promoting team-based, inclusive, and interdisciplinary open science. Oral presentation for the Great Lakes Institute for Environmental Research (University of Windsor, ON, Canada) Graduate Seminar Series, December 2016.

**K.S. Cheruvelil.** Limnology in the 21st century: Incorporating data-intensive research, open science, and team science to address broad-scale problems. Plenary address to the 33rd International Society for Limnology Congress. Torino, Italy, August 2016.

**K.S. Cheruvelil.** Data-intensive aquatic research: Networks, teams, sensors, harmonized datasets, and open science. Invited tutorial Speaker, Association for the Sciences of Limnology and Oceanography Summer Meeting, Santa Fe, NM. June 2016.

**K.S. Cheruvelil.** Make it Matter: Success stories from the science policy interface. Panelist, Association for the Sciences of Limnology and Oceanography Summer Meeting, Santa Fe, NM. June 2016.

Soranno, P.A. and**K.S. Cheruvelil.** Landscape limnology: Bridging local and regional scales to understand freshwaters.Invited oral presentation, Association for the Sciences of Limnology and Oceanography Summer Meeting, Santa Fe, NM. June 2016.

**K.S. Cheruvelil.** Macrosystems Ecology: Tackling regional-to-continental scale ecological challenges. Panelist,MSU Environmental Science and Policy Program, February 2016.

*Collins, S.M., S.K. Oliver, J.-F. Lapierre*, E.H. Stanley, **K.S. Cheruveli1**, P.A. Soranno. What drives lake nutrients at continental scales, and why is it so hard to predict nutrient ratios? Invited oral presentation to the AGU Fall Meeting, San Francisco, CA. December 2015.

**K.S. Cheruvelil.** Interdisciplinary ecology during ESA’s centennial. Oral presentation for the Educating the Interdisciplinary Ecologist: Assessing Educational Ecosystems to Help PhD Students Succeed, Get Hired, and Push Boundaries Workshop. The 100th Ecological Society of America Annual Meeting. Baltimore, MD, August 2015.

**Cheruvelil, K.S.** and P.A. Soranno. Revision, update, and validation of the lake-specific model for establishing   
expected nutrient conditions in Michigan lakes. Webinar presentation to the US EPA Region 5 Regional Technical Assistance Group (RTAG) Meeting. February 2015.

**K.S. Cheruvelil.** Landscape limnology: Understanding lakes at regional to continental scales. Plenary address at the 8th International Shallow Lakes Conference. Antalya, Turkey, October 2014.

**K.S. Cheruvelil.** Building the skills for creating and maintaining high-performing collaborative research teams. Workshop at the 8th International Shallow Lakes Conference. Antalya, Turkey, October 2014.

**K.S. Cheruvelil.** Landscape limnology: Understanding multi-scaled cause-effect relationships between terrestrial and aquatic ecosystems. Oral presentation to the School of Biological Sciences Seminar Series at Queen’s University Belfast, Northern Ireland, February 2014.

**K.S. Cheruvelil.** Increasing scientific understanding of environmental change: Quantifying multi-scaled relationships between terrestrial and aquatic ecosystems. Oral presentation to the School of Geography, Archeology and Paleoecology Seminar Series at Queen’s University Belfast, Northern Ireland, January 2014.

**K.S. Cheruvelil.** Understanding multi-scaled relationships between terrestrial and aquatic ecosystems. Oral presentation to the Zoology Department Seminar Series at Trinity College, Dublin, Ireland, November 2013.

**K.S. Cheruvelil.** Landscape approaches for understanding and managing lakes. Oral presentation to the Scottish Freshwater Group, Stirling, Scotland, October 2013.

Soranno, P.A., **K.S**. **Cheruvelil,** E.G. Bissell, M.T. Bremigan, J.A. Downing, C*.E. Fergus*, *C. Filstrup*, N. Lottig, E.N. Henry, E.H. Stanley, C.A. Stow, P.-N. Tan, T. Wagner, K.E. Webster. A conceptual framework for understanding multi-scaled cause-effect relationships between terrestrial and aquatic ecosystems. Ecological Society of America 98th Annual Meeting, Minneapolis, MN. August 2013.

**K.S. Cheruvelil**, P.A. Soranno, K.C. Weathers, P.C. Hanson, *S. Goring, C.T. Filstrup,* and *E.K. Read.* Creating and maintaining high-performing collaborative research teams: the importance of diversity and interpersonal skills. Oral presentation at the NSF-Macrosystems Biology PI Meeting, Washington, D.C. June 2013.

*Goring, S.*, K. Weathers, W.K. Dodds, P.A. Soranno, *L. Sweet*, **K.S. Cheruvelil**, J. Kominoski, *J. Ruegg*, *A. Thorn*, R. Utz. Improving the culture of interdisciplinary collaboration in ecology by expanding measures of success. Oral presentation at the NSF-Macrosystems Biology PI Meeting, Washington, D.C. June 2013.

*Levy, O*., B.A. Ball, B. Bond-Lamberty, **K.S. Cheruvelil**, A.O. Finley, N. Lottig, S. Punyasena, J. Xiao, J. Zhou, L.B. Buckley, J. Clark, *C.T. Filstrup*, T. Keitt, J.R. Kellner, A.K. Knapp, A. Richardson, C. Stow, D. Tcheng, *M. Toomey*, R. Vargas, J.W. Voordeckers, T. Wagner, J.W. Williams Oral presentation at the NSF-Macrosystems Biology PI Meeting, Washington, D.C. June 2013.

**Cheruvelil, K.S.** Landscape limnology: How your lake is influenced by local and regional landscape feature. Oral presentation to the Pleasant Lake Association. Pleasant Lake, MI. March 2013.

**K.S. Cheruvelil**. Landscape limnology: How your lake is influenced by local and regional landscape feature. Oral presentation to the Michigan Chapter of the North American Lake Management Society. Tustin, MI. September 2012.

*Norton, E.M.*, **K.S. Cheruvelil**. The effects of lake shoreline development on turtle populations. Oral presentation to the Michigan Chapter of the North American Lake Management Society. Roscommon, MI. September 2010.

*Norton, E.M.*, **K.S. Cheruvelil**, D.B. Kramer. What do natural features have to do with property values? A hedonic valuation study of Michigan Lakes. Oral presentation to the Michigan Chapter of the North American Lake Management Society Board. East Lansing, MI. April, 2009.

Bremigan, M.T., P. Soranno, M. Gonzalez, B. Bunnell, K. Arend, W. Renwick, R. Stein, and M. Vanni, **K.S. Cheruvelil**, K. Webster, C. Stow, and T. Wagner. Linking Foodweb and Landscape Models: Hydrogeomorphic Mediation of Land-use Effects on Reservoirs. Presentation to a reservoir symposium at the 69th Midwest Fisheries and Wildlife Conference, Columbus OH. December 2008.

Soranno, P.A., M.T. Bremigan, **K.S. Cheruvelil**, and K.E. Webster. Databases and related research from the MSU landscape limnology research group. Presentation to the Michigan Water Resources Advisory Council Subcommittee on Inland Lakes and Wetlands. Lansing, MI. November 2008.

*Alwin, T.G*. and **K.S. Cheruvelil**. Eurasian watermilfoil control with biota. Presentation to the Michigan Lakes and Streams Association. East Lansing, Michigan. September 2008.

Bremigan, M.T., **K.S. Cheruvelil**, P.A. Soranno, K.E. Webster, *B.A. Alger*, and T. Wagner. Landscape scale management for lakes: connecting lake landscapes to water chemistry and fishes. Presentation to the National conference sponsored by US EPA and North American Lake Management Society: **Enhancing the States' Lake Management Programs -** Building Partnerships for Improved Fisheries and Lake Water Quality. Chicago, IL. April 2008.

Soranno, P.A., **K.S. Cheruvelil**, R.J. Stevenson, S. Rollins, S.W. Holden, S. Heaton and E. Torng. Developing lake-specific nutrient criteria: integrating predictive modeling with biological response gradients. Invited oral presentation to the New England Association of Environmental Biologists Annual Conference. West Dover, Vermont. March 2007.

**Cheruvelil, K.S.**, P.A. Soranno, M.T. Bremigan, K.E. Webster, T. Wagner and *S.L. Martin*. The roles of regionalization and spatial scale for national lake classification and assessment. Invited oral presentation to the US EPA Region 5 2006 Surface Water Monitoring and Standards Meeting. Chicago, IL. February 2006.

**Cheruvelil, K.S.**, P.A. Soranno, N.A. Nate, M.T. Bremigan, T. Wagner and *S.L. Martin*.Examining ecological relationships to guide lake management. Invited oral presentation to the Lund University Department of Ecology, Limnology Section. Lund, Sweden. October 2005.

**Cheruvelil, K.S.**, P.A. Soranno, N.A. Nate, M.T. Bremigan, T. Wagner and *S.L. Martin*.Examining ecological relationships to guide lake management. Invited oral presentation to the Freshwater Lab of the Swedish Board of Fisheries. Stockholm, Sweden. October 2005.

**Cheruvelil, K.S.**, T. Wagner, P.A. Soranno and M.T. Bremigan. The role of regionalization for lake assessment and monitoring: How do we predict lake physico-chemical variables from landscape features at multiple spatial scales? Invited oral presentation to the University of Notre Dame Department of Biology. South Bend, IN. April 2005.

**Peer-Reviewed Publications** h-index = 28, i10-index = 70 (Google Scholar) **(non-peer reviewed on page 24)**

**Notes:** Primary/lead author first except when designated by §, which indicates co-lead authors. Students/post-docs italicized, KSC bolded. In ecology, the vast majority of papers have many authors and last author position indicates supervisory role. See each paper for complete author contribution statement. Impact indicators provided with green text, when available; AM = Altmetric attention score, % is compared to all research outputs scored by Altmetric with A, G, and H = average, good, or high attention score compared to outputs of the same age as of October 2020. Pubs with orange numbers are associated with teaching and learning.

**85.** *Sun, X.* and **K.S. Cheruvelil**. 2025. Local water year values for the conterminous United States. Limnology and Oceanography Letters. <https://doi.org/10.1002/lol2.70036>

**84.** Soranno, P.A., P.J. Hanly, K.E. Webster, T. Wagner, A. McDonald, A. Shuvo, E.M. Schliep, *K.L. Reinl, I.M. McCullough*, P.-N. Tan, N.R. Lottig, **K.S. Cheruvelil.** 2025. Abrupt changes in algal biomass of thousands of US lakes are related to climate and are more likely in low-disturbance watersheds. Proceedings of the National Academy of Sciences. 122 (9): e2416172122 <https://doi.org/10.1073/pnas.2416172122>.

**83.** *Ma, G.,* **K.** **Spence Cheruvelil**, G.M., Montgomery, E.A. Cech, I.H. Settles, and *H.M. Douglas*. 2025. Racial Differences in Job Attitudes of Early-Career Academics: The Experiences of Asian Americans in Higher Education. Higher Education. <http://doi.org/10.1007/s10734-025-01412-4>

**82.** *Sun, X.*, **K.S. Cheruvelil**, P. Hanly, and P.A. Soranno. 2025. Lake chlorophyll responses to drought are related to lake type, connectivity, and ecological context across the conterminous United States. Limnology & Oceanography70: 941-958. <http://doi.org/10.1002/lno.12817>

**81.** *Douglas, H.M.*, I.H. Settles, **K. Spence Cheruvelil**, G.M. Montgomery, K.C. Elliott, E.A. Cech, *T.M. Davis*, *G. Ma,* *A.K. Hawkins*, & *L.R. Nadolsky*. 2024. The importance of inclusive climate within the research group, department, and profession for marginalized science scholars’ career outcomes. Journal of Diversity in Higher Education. <https://doi.org/10.1037/dhe0000589>

**80.** *Díaz Vázquez, J. I.M. McCullough, M. Haite*, P.A. Soranno, & **K. Spence Cheruvelil**. 2024. US lakes are monitored disproportionately less in communities of color. Frontiers in Ecology and the Environment. <https://doi.org/10.1002/fee.2803>

**79.** *Douglas, H.M*., K.C. Elliott, I.H. Settles, G.M. Montgomery, T.M. Davis, *L.R. Nadolsky*, and **K. Spence Cheruvelil**. 2024. Authorship Climate: A New Tool for Studying Ethical Issues in Authorship. Accountability in Research. 31(5): 403-427. <https://doi.org/10.1080/08989621.2022.2140587>

**78.** M.L. Sánchez, I. Izaguirre, H. Zagarese, M.R. Schiaffino, M.C. Berman, L. Lagomarsino, G. Chaparro, S. Baliña, M.S. Vera, and **K. Spence Cheruvelil**. 2023. Drivers of planktonic chlorophyll *a* in pampean shallow lakes. Ecological Indicators 146: 109834. <https://doi.org/10.1016/j.ecolind.2022.109834>

**77.** *L.K. Rodriguez*§, *S.M. Polus*§, *D.I. Matuszak*§, *M.R. Domka*§, P.J. Hanly, Q. Wang, P.A. Soranno, and **K. Spence Cheruvelil. 2023**. LAGOS-US RESERVOIR: A database classifying conterminous U.S. lakes 4 hectares and larger as natural lakes or reservoir lakes. Limnology & Oceanography Letters 8(2): 267-285. <https://doi.org/10.1002/lol2.10299>

**76.** *Douglas, H.M*., I.H. Settles, Cech E.A., G.M. Montgomery, *L.R. Nadolsky, A.K. Hawkins, G. Ma*, *T.M. Davis*, K.C. Elliott, and **K. Spence Cheruvelil**. 2022. Disproportionate impacts of COVID-19 on marginalized and minoritized early-career academic scientists. PLoS ONE 17(9): e0274278 <https://doi.org/10.1371/journal.pone.0274278>

**75.** Richardson, D.C., M.A. Holgerson, M.J. Farragher, K.K. Hoffman, *K.B.S. King*, M.S. Alfonso, M.R. Andersen, **K. Spence Cheruvelil**, K.A. Coleman, M.J. Farruggia, R.L. Fernandez, K.L. Hondula, G.L. Moreira, K. Paul, B.L. Peierls, J.S. Rabaey, S. Sadro, M.L. Sánchez, R.L. Smyth, J.N. Sweetman. 2022. A functional definition to distinguish ponds from lakes and wetlands. Scientific Reports 12:10472 [https://doi.org/10.1038/s41598-022-14569-0](https://urldefense.com/v3/__https:/doi.org/10.1038/s41598-022-14569-0__;!!HXCxUKc!3YG-3moKNDYqJ1NWlzjUrlOKVerMIi1S43HKqxObMUKph5KYnVijB4lu_Rj1OpoOW8bOXE9uymwHr8_ha6S2hA$)

**74. §**Cheruvelil, K.S., **§**K.E. Webster, K.B. King, A.C. Poisson, and T. Wagner. 2022. Taking a macroscale perspective to improve understanding of shallow lake total phosphorus and chlorophyll *a*. Hydrobiologia 10.1007/s10750-022-04811-1

**73.** *Robotham, K*., I. Settles, **K.S. Cheruvelil**, G. Montgomery, and K. Elliott. 2021. Just and inclusive team climates affect mentoring satisfaction: The roles of negative mentoring and race. Journal of Career Development. [https://doi.org/10.1177/08948453211044134](https://doi.org/10.1177%2F08948453211044134)

**72. Cheruvelil, K.S.**, P.A. Soranno, *I.M. McCullough*, K.E. Webster, *L. Rodriguez*, and N. Smith. 2021. LAGOS-US LOCUS v1.0: Data module of location, identifiers, and physical characteristics of lakes and their watersheds in the conterminous U.S. Limnology and Oceanography Letters <https://doi.org/10.1002/lol2.10203> *AM = 23, top 25%, H.* MSU Press Release. *MSU researchers catalog 480,000 lakes in the lower 48 states* [https://www.canr.msu.edu/news/msu-researchers-catalog-480-000-lakes-in-the-lower-48-states](https://www.canr.msu.edu/news/msu-researchers-catalog-480-000-lakes-in-the-lower-48-states%20) and highlighted in USGS newsletter/website <https://www.usgs.gov/center-news/lagos-us-research-platform>

**71.** *King, K.K, Q. Wang, L. Rodriguez* and **K.S. Cheruvelil**. *2021.* Lake networks and connectivity metrics for the conterminous U.S. (LAGOS-US NETWORKS v1). Limnology and Oceanography Letters. <https://doi.org/10.1002/lol2.10204> *AM = 15, top 25%, H.*

**70.** Dahlin, K.M, P.L. Zarnetske, *Q.D. Read*, *L.A. Twardochleb*, *A.G. Kamoske*, **K.S. Cheruvelil**, and P.A. Soranno. 2021. Linking terrestrial and aquatic biodiversity to ecosystem function across scales, trophic levels, and realms. Frontiers in Environmental Science 9:692401. <https://doi.org/10.3389/fenvs.2021.692401> *AM = 7, top 25%, G.*

**69.** Cech, E., I. Settles, K. Elliott, G. Montgomery, **K.S. Cheruvelil**, and *S. Brassel*. 2021. The social is professional: the effects of team climate on professional outcomes for LGBTQ persons in environmental science. Journal of Women and Minorities in Science and Engineering. 27(5): 25-48 <https://doi.org/10.1615/JWomenMinorScienEng.2021037211>

**68.** *King, K*., M.T. Bremigan, D. Infante, and **K.S. Cheruvelil**. 2021.Surface water connectivity affects lake and stream fish species richness and composition. Canadian Journal of Fisheries and Aquatic Sciences 78: <https://doi.org/10.1139/cjfas-2020-0090> *AM = 18, top 25%, H.* Women of Fisheries July Research Highlight: Bridging the Disconnect <https://womenoffisheries.org/july-research-highlight-bridging-the-disconnect/>

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**11.** Soranno, P.A., **K.S. Cheruvelil**, R.J. Stevenson, *S. Rollins*, S.W. Holden, and S. Heaton. 2008*.* A framework for developing ecosystem-specific nutrient criteria: Integrating biological thresholds with predictive modeling. Limnology and Oceanography 53(2): 773-787.

**10.** Wagner, T., P.A. Soranno, **K.S. Cheruvelil**, W.H. Renwick, K.E. Webster, P.Vaux, and R.J.-F. Abbitt. 2008*.* Quantifying sample biases of inland lake sampling programs in relation to lake surface area and land use/cover. Environmental Monitoring and Assessment 141(1): 131-147.

**9.** Webster, K.E., P.A. Soranno, **K.S. Cheruvelil**, M.T. Bremigan, J.A. Downing, P. Vaux, T. Asplund, L.C. Bacon, J. Connor. 2008*.* An empirical evaluation of the nutrient color paradigm for lakes. Limnology and Oceanography 53(3): 1137-1148.

**8.** Wagner, T., Bremigan, M. T., **K.S. Cheruvelil**, Soranno, P. A., Nate, N. N., and Breck, J. E. 2007. A multilevel modeling approach to assessing regional and local landscape features for lake classification and assessment of fish growth rates. Environmental Monitoring and Assessment 130(3): 437-454.

**7.** Nelson, S.A.C., **K.S. Cheruvelil** and P.A. Soranno. 2006*.* Satellite remote sensing of freshwater macrophytes and the influence of water clarity. Aquatic Botany. 85(4): 289-298.

**6. Cheruvelil, K.S.**, N.A. Nate, P.A. Soranno and M.T. Bremigan. 2005. Lack of a unimodal relationship between fish growth and macrophyte cover in 45 north temperate lakes. Archiv fur Hydrobiologie. 164: 193-215.

**5.** Bremigan, M.T., S.M. Hanson P.A. Soranno, **K.S. Cheruvelil**, and R.D. Valley. 2005. Aquatic vegetation, largemouth bass and water quality responses to low-dose fluridone two years post treatment. Journal of Aquatic Plant Management. 43: 65-75.

**4.** Nelson, S.A.C., P.A. Soranno, **K.S. Cheruvelil**, S. Batzli and D. Skole. 2003*.* Regional assessment of lake water clarity using satellite remote sensing. Journal of Limnology 62(Suppl. 1): 27-32.

## 3. Cheruvelil, K.S., P.A. Soranno, J.D. Madsen and *M.J. Roberson*. 2002. Plant architecture and epiphytic macroinvertebrate communities: the role of an exotic dissected macrophyte. Journal of the North American Benthological Association 21(2): 261-277.

## 2. Cheruvelil, K.S., P.A. Soranno and J.D. Madsen. 2001. Epiphytic macroinvertebrates along a gradient of Eurasian watermilfoil cover. Journal of Aquatic Plant Management 39: 67-72.

**1. Cheruvelil, K.S.**, P.A. Soranno and *R.D. Serbin*. 2000. Macroinvertebrates associated with submerged macrophytes: Sample size and power to detect effects. Hydrobiologia 441: 133-139.

**Disciplinary Service, Leadership, & Engagement**

**Advisory/Steering Committee Roles**

Member, NSF-Funded P13 Training Grant: *Polyploidy Integration and Innovation Institute*, Florida Museum of Natural History and University of Florida. 2024 – present.

Member, Steering Committee, Spectral Ecology Summer School (https://www.specschool.org/). June 2021 - present.

Member, NSF-Funded T3 Training Grant: *Environmental & Ecological Informatics,* The School of Informatics, Computing, and Cyber Systems, The Center for Ecosystem Science and Society and Department of Biological Sciences, Northern Arizona University. 2019 – 2023.

**Invited Collaborator**

UK Natural Environment Research Council Highlight Topics Program Grant: *Hydroscape: Connectivity x stressor interaction in freshwater habitats.* Lead PI: N. Willby (University of Stirling, Scotland). 2015-2019.

National Socio-Environmental Synthesis Center: *The value of lakes: evidence from geotagged social media* (2016-2018). Project leads: Bonnie Keeler and Spencer Wood. In-person working groups attended January 2016 & May 2017.

**Editorial Positions**

Associate Editor

Frontiers in Ecology and the Environment, 2023 Impact Factor 10, 2015 - present

Limnology & Oceanography Letters, 2024 Impact Factor 5.1, 2015 - 2024

Landscape Ecology, 2017 Impact Factor 3.833, 2014 - 2017

Section Editor, Emerging Methods and Topics *in* Encyclopedia of Inland Waters 2nd ed. 2019 – 2022.

Guest Subject Editor

Ecological Applications 2013, 2014, 2015-2016

Northeastern Naturalist 2008-2010

**Journal Article Reviewer**

Aquatic Botany, Archiv fur Hydrobiologie, BioScience, Canadian Journal of Fisheries and Aquatic Sciences, Ecology, Ecological Applications, Ecosphere, Environmental Management, Environmental Monitoring and Assessment, Environmental Research Letters, Humanities & Social Sciences Communications, Hydrobiologia, Journal of Applied Ecology, Journal of Aquatic Plant Management, Journal of Basic and Applied Ecology, Journal of Great Lakes Research, Limnologica, Limnology, Nature: Scientific Data, Oecologia, Proceedings of the National Academy of Sciences, Transactions of the American Fisheries Society, Sustainability Science, U.S. Geological Services Internal Manuscript Reviewer, Water Research.

**External Proposal Reviewer/Panelist**

NSF Virtual Panel Review Member: STEM Education Directorate 2024

NSF Mail Reviewer: Cross-Directorate Program 2024

NSF Virtual Panel Review Member: Cross-Directorate Program 2020

German Research Foundation (Deutsche Forschungsgemeinschaft) Mail Reviewer 2020

NSF Onsite Panel Review Member: Directorate of Biological Sciences 2006, 2007, 2013, 2018, 2019(2)

NSERC (Canada) Mail Reviewer: Discovery Grants and Strategic Partnership Grants Programs 2015-2017

Natural Sciences and Engineering Research Council of Canada Discovery Grants Program External Mail Reviewer 2015

EPA STAR Program Onsite Panel Member 2013

Graduate Women in Science National Fellowships Program Reviewer 2013

NSF Mail Reviewer: Directorate of Biological Sciences 2006, 2010, 2011, 2019, 2020

Lake Champlain Basin Program Grant Program Reviewer 2011

Mississippi-Alabama Sea Grant Consortium Research Program Reviewer 2010-2011

**Disciplinary Service**

Member, Conference Organizing Committee, *NSF Macrosystems Biology & NEON-enabled Science Program All-PI Meeting.* Boulder, CO. May 15-17, 2019.

Member, Conference Advisory Board, 2019 *Science of Team Science Conference*. Lansing, MI. May 20-24, 2019. 2018 – 2019.

Member, Conference Organizing Committee, *NSF Macrosystems Biology & NEON-enabled Science Program All-PI Meeting.* Boulder, CO. March 11-14, 2012

Association for the Sciences of Limnology and Oceanography (ASLO):

Awards Committee Member, 2018 – 2022.

Raelyn Cole Editorial Fellowship Committee Member, Limnology & Oceanography Letters. 2016 - 2019.

* Scientific Organizing Committee Member, Summer Meeting, June 2016,Santa Fe, NM, 2014 – 2016.
* Co-convener of Special Session:
  + *Data-intensive research builds understanding of aquatic ecosystem responses to change at regional to global scales*. Summer Meeting. Madison, WI. June 3-8, 2024.
  + How data-intensive research has increased understanding of freshwater ecosystems across broad geographies and through time. Aquatic Sciences Meeting. Palma de Majorca, Spain. June 4-9, 2023.
  + *Tipping the Scales: Examining broad-scale patterns and processes in limnology,* Summer Meeting. Victoria, British Columbia, Canada. June 10-15, 2018.
  + *Data-intensive aquatic research: Networks, teams, sensors, datasets, and open science,* Aquatic Sciences Meeting. Honolulu, HI. February 26 - March 3, 2017.
  + *Data-intensive aquatic research: Networks, teams, sensors, harmonized datasets, and open science,* Summer Meeting. Sante Fe, NM. June 5-10, 2016.
  + *Landscape Limnology: Integrating Lakes, Streams and Wetlands in the Freshwater Landscape*, Summer Meeting. Sante Fe, NM. June 6-11, 2010.
  + *Landscape limnology: interactions among land, water, and humans at multiple spatial scales*, Summer Meeting. Victoria, British Columbia, Canada. June 4-9, 2006.

Ecological Society of America

* Co-convener of Special Session:
  + Workplace Culture. Annual Meeting. Portland, OR. August 6-11, 2023.
  + *Lakes, Streams, Groundwater and Wetlands in the Landscape: Linkages among freshwater systems*, Annual Meeting. Milwaukee, WI. August 2008.
* English as a Second Language Grammatical Reviewer, Ecological Society of America Journals 2006.

Global Lake Ecological Observatory Network (GLEON): Elected Committee Member, Collaborative Climate Committee. 2016 - 2019.

International Association of Theoretical and Applied Limnology (SIL): Conference Abstract Reviewer, 2016

Michigan Chapter of the North American Lakes Management Society (MI-NALMS):

Newsletter Research Reviews Editor, 2010- 2013.

Board Member, May 2007 – Dec 2010.

**Service to Natural Resource Agencies to Inform Environmental Policy**

MI-Department of Environment, Great Lakes, and Energy:

Advised economic evaluation of aquatic invasive exotics, 2015.

Revised the nutrient standards for Michigan lakes, 2013-2015.

Advised the creation of state-wide Hg and PCB total maximum daily load standards, August 2011.

Identified reference lakes for Michigan as part of the EPA’s Survey of the Nation’s Lakes, 2007.

Developed nutrient standards for Michigan lakes, Quality 2005-2006.

Maine Fish & Wildlife Service: Advised Fish Habitat Model, 2009.

European Union: Provided conceptual framework for the *Report from workshop on among BQEs, habitats and systems comparisons* (Deliverable D6.3-1), Swedish WISER group (Water bodies in Europe: Integrative Systems to Assess Ecological Status and Recovery; <http://www.wiser.eu/download/D6.3-1.pdf>), March 2011.

US Geological Survey: Advised use of ecoregions and ways to quantify the landscape, 2010-2011.

US Fish and Wildlife Service: Advised on the use of Landscape Conservation Cooperatives, 2010-2013.

**Academic Service**

Michigan State University:

University Committee on Faculty Tenure. August 2014 – August 2017.

All-University Awards Committee. 2014 – 2016.

Academic Council / Faculty Council. August 2011 – August 2013

Rubric Committee, Effective Citizenship Liberal Learning Goal. January 2012 – May 2012.

Faculty Advisory Committee, to the NSF ADAPP-ADVANCE Grant Management Team, 2011 – 2013.

Team 2- Guided Transition Discussions Committee (RE: Fall Orientation), 2008 – 2009.

Faculty Advisor,MSU Undergraduate Swim Club (2012 – 2013) and Nordic Ski Club (2009 – 2013).

Lyman Briggs College:

Standing Committees:

* Chair, Faculty Peer Performance Annual Review Committee, 2020
* Member, Educational Policy Committee, 2020
* Member, Inclusion Committee, 2015 – 2017
* Member, Educational Policy Committee, 2014 – 2015
* Chair, Briggs Advisory Council, 2009 – 2011
* Member, Briggs Advisory Council, 2008 – 2009

Ad-hoc Committees:

* Member, COVID-19 Faculty Strategic Planning Committee, 2020
* Co-founding Member, Diversity Advisory Committee to the Dean, 2008 – 2010
* Member, Metrics of Success Committee, 2007 – 2008
* Member, Improving Learning Assistant Training Committee, 2008
* Member, Developing the Environmental Science Major Committee, 2008
* Member, Undergraduate Research Symposium Committee, 2008
* Chair, Undergraduate Research Symposium Committee, 2007

Faculty Search Committees:

* Member, Biology Fixed-Term Faculty Search Committee, 2020
* Chair, Biology Academic Specialist Faculty Search Committee, 2016 – 2017
* Member, Biology Fixed-Term Faculty Search Committee, 2013
* Member, Historian of Science Faculty Search Committee, March 2012
* Member, Biology Lab Coordinator Search Committee, 2011
* Member, Biology Lab Prep Technician Search Committee, 2008

Fisheries & Wildlife Department:

Strategic Planning Implementation Committee, 2020

Graduate Committee, 2020

Faculty Annual Review/Reappointment, Promotion, Tenure Process Review Committee, 2019 – 2020

Faculty/Staff Awards Committee, 2019 - 2020

Faculty Adviser, Graduate Student Organization 2017

Research Symposium Planning Committee, 2016 – 2017

Faculty/Staff Awards Committee, 2014 – 2016

Lake and Stream Outreach Specialist Search Committee, 2008

Ecology, Evolution, and Behavior Program:

Distinguished Postdoctoral Fellows, 2020 - 2021

Environmental Science and Policy Program:

Faculty Advisory Council, 2011 – 2013

Environmental Science & Policy Faculty Search Committee, 2008 – 2009

Faculty & Student Engagement Committee, 2008 – 2009

**Teaching & Learning, Mentoring, & Professional Development**

**Invited Organizer & Facilitator of STEM Education Workshops, Seminars, & Trainings**

*Team Science: Lessons learned from LAGOS,*Spectral Ecology Summer School, April 2023 & April 2024

*Strategies for Effective Individual and Team Time Management.* Northern Arizona University Graduate Student Course in Interdisciplinary Team Science. October 5 and 7, 2021.

*Strategies for Effective Team Authorship Decisions: Power Dynamics, Authorship Policies, and Team Climate.* MSU Graduate School Responsible Conduct of Research, Scholarship, and Creative Activities Workshop Series (co-led with P.A. Soranno), November 10, 2020.

*Crafting a Diversity Statement*:

MSU Post-docs and Graduate Teaching Fellows, April 2022.

MSU Graduate Teaching Fellows, February 2021.

MSU Post-doc Office, May 2020.

MSU CIRTL FAST Fellows, February 2020.

*Creating/Fostering Inclusive Learning Environments*:

MSU Graduate Teaching Fellows, October 2019, October 2020.

MSU CIRTL FAST Fellows, December 2014, November 2016, October 2019.

MSU Extension North Central Region Volunteer Specialists Spring Meeting (with J.J. Cheruvelil), April 2019.

MSU Graduate Teaching Fellows, January 2018.

LBC Graduate Teaching and Undergraduate Learning Assistant Training, August 2010, 2012, 2014, 2015, 2017.

MSU Lilly Seminar Series (co-led with C. Fata-Hartley), March 2013.

MSU College Science Teaching Certification Program, May 2010.

LBC Graduate Teaching and Undergraduate Learning Assistant Training (co-led with C. Fata-Hartley), August 2009, 2010.

*Navigating Team Power Dynamics in Authorship Decisions*. MSU Writing Productivity (FW893), March 2019.

*Strategies to Promote Effective Student Teams*:

MSU STEM Teaching Essentials, October 2016, September 2019.

MSU Foundations of Engineering Education (EGR811), November 2017.

MSU Teaching Assistant Program, April 2013.

University of Dohuk Faculty, April 2012, March 2013.

LBC Graduate Teaching and Undergraduate Learning Assistant Training (co-led with C. Fata-Hartley), August 2011.

*Building the skills for creating & maintaining high-performing collaborative teams,* MSU Extension Sea Grant Team, November 2017.

*Optimizing Mentoring Relationships,* LBC faculty (co-led with Melissa McDaniels), March 2017.

**Contributed Organizer & Facilitator of STEM Education Workshops, Seminars, & Trainings**

K. Hoag & **K.S. Cheruvelil.** Using Team-Maker & CATME for Creating and Assessing Student Teams. Workshop at the MSU Teaching & Learning Spring Conference May 2017.

Luckie, D.B., J.J. Smith, **K.S. Cheruvelil**, C. Fata-Hartley, C. Murphy, and G. Urquhart. The “Anti-Cookbook Laboratory”: Converting “Canned” Introductory Biology Laboratories to Multi-week Independent Investigations. Major Workshop at the 34th Annual Association for Biology Laboratory Education conference, Chapel Hill, NC. June 2012.

Fata-Hartley, C. and **K.S. Cheruvelil**. Creating Inclusive Learning Environments. Mini-Workshop at the 34th Annual Association for Biology Laboratory Education conference, Chapel Hill, NC. June 2012.

**Courses Taught -** Notes: UG = undergraduate, GRAD = graduate, CH = credit hours, # = average student enrollment

Michigan State University

*Diversity and Inclusion in Science Teams* (LB492; UG interdisciplinary senior capstone: 4 CH, 15). Fall 2023.

*Principles and Perspectives in Fisheries and Wildlife* (FW894; GRAD seminar: 2 CH, 20). Fall 2019, Fall 2020.

*Introductory Organismal Biology* (LB144: Laboratory only, 120). Fall 2008, Fall 2012, Fall 2014, Spring 2016, Fall 2016, Spring 2020.

*Landscape Ecology* (FW840; EEBB ecology course; GRAD lecture/laboratory: 3 CH, 15). Fall 2010, Spring 2015, Spring 2017.

*Introductory Organismal Biology* (LB144; UG lecture/laboratory: 4 CH, 120). Fall 2006, Spring 2008, Fall 2009, Spring 2010, Fall 2011, Spring 2012, Fall 2015.

*Vaccines at the Intersection of Science and Society* (LB492; UG interdisciplinary senior capstone: 4 CH, 15). Fall 2008, Summer 2011, Fall 2014.

*Tropical Biodiversity & Conservation* (LB492; UG study abroad: 4 CH, 20), Spring 2009.

*Independent Study* (FW490: UG research: 1 CH, 1). Fall 2008, Summer 2009.

*Mentoring: Training a New Generation of Scientists* (FW893; GRAD seminar: 1 CH, 10). Spring 2008.

*Limnology* (FW 472; UG lecture course: 3 CH, 20). Spring 2003.

Purdue University North Central

*Biology for Elementary School Teachers I* (BIOL 205; UG lecture/laboratory: 3 CH, 60). Fall 2004.

*Biology for Elementary School Teachers II* (BIOL 206; UG lecture/laboratory course: 3 CH, 60).

*Environmental and Conservation Biology* (BIOL 483; UG lecture/laboratory course: 3 CH, 5). Spring 2005.

*Limnology* (FNR 501;UG lecture/laboratory course: 3 CH, 5). Fall 2004.

**Textbook Chapter Reviewer**

Learning Landscape Ecology: A Practical Guide to Concepts and Techniques 2nd edition. 2017. S.E. Gergel & M.G. Turner (eds). 2015.

Future of Fisheries: Perspectives for Emerging Professionals. W.W. Taylor, A.J. Lynch, N. Leonard (eds). 2014. American Fisheries Society. 2013.

Content and pedagogy reviewer for chapters in Biological Sciences 5th edition. Freeman, Quillin, Allison, Black, Podgorski, Monroe, and Taylor (eds) 2014, Biology 9th edition. Solomon, Berg, Martin (eds) 2011.

**Faculty Professional Development**

*COMPASS* Science Communication Workshop, Michigan State University. 2016

MSU Faculty Learning Community Participant:

Lilly Teaching Fellows 2.0: Instructional Technology and Social Media, 2015 – 2016

Proven Practices for Academic Success by Students of Color, 2011 – 2012

*Women Evolving Biological Sciences (WEBS),* 2008. NSF-funded early-career leadership program. University of Washington Pack Forest, WA

*Dissertations Initiative for the Advancement of Limnology and Oceanography (DIALOG) VII Symposium*, 2005. NSF-funded early-career leadership program. Dauphin Island Sea Lab, AL

Case Studies in Science Workshop Participant, National Center for Case Study Teaching in Science, University at Buffalo, May 23-27, 2005

**Post-doctoral Researchers (Advisor); Department of Fisheries and Wildlife (FW)**

Xinyu Sun, Feb 2023 - current

Ian McCullough, Department of Fisheries and Wildlife, August 2017 – October 2021. Current position: Academic Specialist - Research, MSU Department of Fisheries and Wildlife.

Guizhen Ma, Department of Fisheries and Wildlife, October 2020 - June 2021. Current position: Tenure system assistant professor at Delta State University.

Patrick Hanly, Department of Fisheries and Wildlife, November 2019 - May 2021. Current position: Research Program Coordinator, MSU Department of Fisheries and Wildlife.

(Maria) Laura Sanchez, Argentinian Fulbright Fellow from University of Buenos Aires, Department of Fisheries and Wildlife, November 2019 - February 2020.

Jean-Francois Lapierre, FQRNT Provincial Postdoctoral Fellow,Department of Fisheries and Wildlife, September 2014 – March 2016. Current position: Assistant Professor at the University of Quebec at Montreal.

Caroline Wynne, Irish Fulbright Fellow from the Irish Environmental Protection Agency, Department of Fisheries and Wildlife, January - July 2015.

Tao Zhang, Department of Fisheries and Wildlife, October 2009 – October 2011. Current position: Postdoctoral Researcher at the University of Florida.

**Graduate Student Researchers (Adviser); Department of FW** (13 more as committee member)

Kendall Ash (M.S. Student, co-advised with P. Hanly), 2025 – current.

Marcella Domka (M.S. Student), 2020 - 2023.

Danielle Matuszak (M.S. Student), 2020 - 2022.

Katelyn King (Ph.D. Student), 2016 - 2021. Current position: Postdoctoral Researcher at the University of Michigan.

Nicholas Skaff (Ph.D.) 2012 – 2018. Current position: Senior Service Fellow with the Environmental Health Tracking Program, Centers for Disease Control and Prevention. NSF-Graduate Research Fellow, EPA-Science to Achieve Results Fellow, & MSU Environmental Science and Policy Program (ESPP) Fellow, FW/Ecology, Evolutionary Biology, & Behavior Program (EEBB).

Angela De Palma-Dow (M.S.) 2011 – 2015. Current position: Invasive Species Coordinator, Lake County, CA.

Emily Norton (Ph.D.) 2007 – 2013. Current position: Assistant Program Leader at Oregon State University. ESPP Fellow, FW/ EEBB.

Stacie Auvenshine (M.S.; Co-advised) 2008 – 2011. Current position: Biologist at the U.S. Army Corps of Engineers.

Thomas Alwin (M.S.) 2007 – 2010. Current position: Biologist at MI-Dept. Environmental Quality.

Joshua Booker (M.S.) Gates Millennium Scholar and EPA STAR Fellow, FW/ EEBB. 2007 – 2010. Current position: Biologist at the U.S. Fish and Wildlife Service.

Brett Alger (M.S.; Co-advised) 2007 – 2009. Current position: Biologist at the National Oceanic and Atmospheric Administration.

**Undergraduate Student Researchers**

Abigail Lippert, Lyman Briggs College, 2024 – present.

Lexi Nadolski, Lyman Briggs College, 2020 – 2023 (still a collaborator).

Arika Hawkins, Department of Fisheries and Wildlife, 2019 – 2023 (still a collaborator).

Maggie Haite, Professorial Assistant, Department of Fisheries and Wildlife & Lyman Briggs College, 2019 – 2023 (still a collaborator).

Jessica Diaz, Independent Study, Department of Fisheries and Wildlife, 2019 – 2021 (still a collaborator).

Lauren Rodriguez, Department of Fisheries and Wildlife, 2017 - 2020.

Sam Polus, NSF Research Experience for Undergraduate Fellow, Department of Fisheries and Wildlife, 2019 – 2020.

Laura Danilla, NSF Research Experience for Undergraduate Fellow, Department of Fisheries and Wildlife, 2019 – 2020.

Jake Namovich, Department of Fisheries and Wildlife & Lyman Briggs College, 2019 – 2020.

Ellie Phillips, Department of Fisheries and Wildlife & Lyman Briggs College, 2017 - 2019.

Thomas Alwin, Department of Fisheries and Wildlife, 2006.

Jason Ardanowski, James Madison College, 2006.

Matthew Fox, Independent Study, Department of Fisheries and Wildlife, 2008 – 2009.

Alex Migda, Independent Study, Zoology Department, 2008-2009.

Sarah Kozicki, RISE Environmental Studies Specialization, 2005.

Stephen Rivard, Professorial Assistant, Lyman Briggs College, 2012 – 2014.

Kimberly Schoch, Professorial Assistant, Lyman Briggs College, 2010– 2012.

Chelsea Stephans, Department of Fisheries and Wildlife, 2004 - 2005.

Xuemei Ye, Lyman Briggs College Research Assistant and Research Fellow, 2009 - 2010.

**Additional Formal Mentoring**

Brian Roth, Associate Prof, Department of Fisheries and Wildlife. Lilly Teaching Fellow Mentor. Scholarship of Teaching and Learning Project: *Using phylogenetic trees to increase student learning of fish systematics, evolution, and nomenclature.* 2014 – 2015.

Emily Norton, MSU FAST Fellow Mentor (Future Academic Scholars in Teaching), Scholarship of Teaching and Learning Project: *Can using real-world statistical case studies increase statistical literacy and student interest in statistics?* 2011 - 2012.

Robert Montgomery, MSU FAST Fellow Mentor, Scholarship of Teaching and Learning Project: *Testing the effectiveness of conceptual models as learning tools.* 2009 - 2010.

ESA SEEDs Mentor (Ecological Society of America’s Strategies for Ecology Education, Diversity, and Sustainability program), ESA Annual Meeting, Milwaukee, WI. August 2008

**Previously Funded Research Grants**

**External**

U.S. National Science Foundation – Division of Equity for Excellence in STEM, Education & Human Resource Program. Collaborative Research: ECR EIE DCL: *Broadening Participation of Underrepresented Scholars in Academic STEM: The Influence of an Inclusive Climate on Early-Career Outcomes.* Award numbers: 1954767 (MSU) and 2000579 (UM) for $1.5M total ($491,162 plus $50,478 in CV-19 supplemental funds to MSU). PIs: K.S. Cheruvelil (Lead, MSU), K. Elliott & G. Montgomery (MSU); I. Settles (lead, UM) & E. Cech (UM). August 2020 – July 2025 (NCE). Terminated by NSF May 2, 2025. [https://www.canr.msu.edu/news/joint-msu-u-m-project-studying-effect-of-inclusivity-on-stem-faculty-receives-1-4-million-grant-from-national-science-foundation](https://www.canr.msu.edu/news/joint-msu-u-m-project-studying-effect-of-inclusivity-on-stem-faculty-receives-1-4-million-grant-from-national-science-foundation%20)

U.S. National Science Foundation - Division of Environmental Biology, Macrosystems Biology and NEON-Enabled Science (MSB-NES) Program. Collaborative Proposal: MSB-FRA: *A macrosystems framework for continental-scale prediction and understanding of lakes*. Award number: 1638679 for $4.2M ($2.1M plus $278,945 CV-19 and $49,876 Research Experience for Undergraduates (REU) supplemental funds to MSU). PIs: K.S. Cheruvelil (Lead 2019-2021), P.A. Soranno (Lead 2016-2019), J. Zhou, P-N Tan (MSU); E. Stanley, N. Lottig, C. Gries (UW); T. Wagner, E. Hanks (PSU); E. Schliep (Missouri SU). October 2016 – February 2025 (NCE). [http://msutoday.msu.edu/news/2016/harnessing-big-data-to-see-the-big-picture-in-ecology/](http://msutoday.msu.edu/news/2016/harnessing-big-data-to-see-the-big-picture-in-ecology/%20)

National Science Foundation - Division of Environmental Biology and Grants for Rapid Response Research Programs. *Collaborative Research: RAPID: lake ecosystem responses to fire along gradients of burn characteristics and hydrologic connectivity*. $177,183 ($67,792 to MSU). PIs: Ian McCullough (Lead), Kendra Cheruvelil, Ty Wagner (PSU), Chris Filstrup (UMinn). March 2022 - February 2023.

National Science Foundation Cultivating Cultures for Ethical STEM Program. *Ethical Standards and Practices of Environmental Science Teams: Does Team Diversity Matter?* $600,000. PIs: K. Elliott (Lead), **K.S. Cheruvelil**, G. Montgomery, I. Settles, P. Soranno. September 2014 – August 2020 (final year no-cost extension). <http://msutoday.msu.edu/news/2014/diversity-could-lead-to-ethical-behaviors-among-scientists/> and <http://msutoday.msu.edu/360/2014/research-team-studying-environmental-science/>

National Science Foundation Macrosystems Biology Program. *Collaborative Research: The effects of cross-scale interactions on freshwater ecosystem state across space and time.* ~$2.2 mil ($1.6 mil to MSU). PIs: P. Soranno (Lead), **K.S. Cheruvelil**, P.-N. Tan (MSU); E. Stanley, N. Lottig (UW); J. Downing (ISU). 2011 – 2017 (final year no-cost extension). <https://msutoday.msu.edu/news/2011/msu-professor-launches-new-field-of-water-research/> picked up by the Associated Press (August 14, 2011) as well as 8 newspapers and 16 science and news websites; Impact Exposure Interview (MSU Student radio 88.9 FM) (along with P.A. Soranno). August 23, 2011.

National Science Foundation Geography and Spatial Sciences Program. $144,082. *A Spaiotemporal Approach to Sensitivity Analysis in Human-Environment Systems Models* (MSU; $200,000 total) PIs: A. Ligmann-Zielinska (Lead), D. Kramer, and P. Jankowski (SDSU); Senior Personnel: **K.S. Cheruvelil** and P. Soranno. 2013 – 2015.

National Science Foundation, Macrosystems Biology Program, Biology Directorate, Emerging Frontiers Division. $209,913 supplement to: *The effects of cross-scale interactions on freshwater ecosystem state across space and time*. PIs: P.A. Soranno (Lead), **K.S. Cheruvelil**, P-N. Tan. 2012 – 2014.

U.S. Environmental Protection Agency, 205J Funds via Huron River Watershed Council and the MI-Department of Environmental Quality. $116,400. *Revision, update, and validation of the lake-specific model for establishing expected nutrient conditions in Michigan lakes*. PIs: **K. Cheruvelil** (Lead), P. Soranno. 2012 – 2014.

US Geological Survey via MSU Institute of Water Research: *Landscape and lake characteristics driving the genetic and species diversity of aquatic plants,* $13,731. PIs: **K.S. Cheruvelil** (Lead), J. Bump (MTU). 2012 – 2013.

US Geological Survey via MSU Institute of Water Research: *The returns on investments in the establishment of riparian buffers for water quality remediation in Michigan’s inland lakes*. $15,000. **K.S. Cheruvelil** and D. Kramer (Co-Leads). 2008 – 2009.

US Geological Survey via MSU Institute of Water Research: *Water quality valuation in Michigan’s inland lakes using hedonic valuation methods*. $15,000. **K.S. Cheruvelil** and D. Kramer (Co-Leads). 2007 – 2008.

U.S. Environmental Protection Agency, National Lake Assessment Planning Project: *A hydrogeomorphic lake classification system for refining lake assessment at multiple spatial scales.* $245,208. PIs: P. Soranno (Lead), **K.S. Cheruvelil**, M. Bremigan, K. Webster. 2005 – 2006.

National Park Service: *Water Resources Assessment of the Indiana Dunes National Lakeshore.* $72,655. PIs: **K.S. Cheruvelil** (Lead), E. Rosi-Marshall, J. Tank, P. Soranno. 2005 – 2006.

**Internal – Michigan State University**

MSU Foundation Strategic Partnership Grant. *The Institute for Biodiversity, Ecology, Evolution, and Macrosystems (IBEEM)*. $480,000. PIs: P. Zarnetske (Lead), **K.S. Cheruvelil** (Director), E. Zipkin, K. Dahlin, J. Robinson, and G. Bradburd. 2021 – 2025 (NCE).

Ecology, Evolution, and Behavior Seed Grant. *Integrating Biodiversity Sciences Across Scales*, $4,810. PIs: **K.S. Cheruvelil** (Lead), E. Zipkin, P. Zarnetske, K. Dahlin, and J. Robinson. 2020 – 2021.

Science & Society @ State. *Innovations in Science Communication and Engagement: Exploring How Better Training Can Improve Outcomes for Science and Society*, $10,000. PIs: J. Lattimore (lead), E. Dreelin, J. Burroughs, S. Nichols, M. Halpern, **K.S. Cheruvelil**. 2016 – 2017.

Science Network WaterCube. $80,000. *Cross-scale investigations to characterize and predict changes in freshwater ecosystems.* PIs: K. Dahlin (Lead), P. Zarnetske, P. Soranno, **K.S. Cheruvelil**. 2015 – 2017.

Science & Society @ State. $10,000. *Conceptions of good science in a data-rich world.* PIs: P. Soranno (Lead), **K.S. Cheruvelil**, K. Elliot, G. Montgomery, P.-N. Tan. 2014 – 2016.

Center for Water Sciences /Environmental Science & Policy Program Innovation Grant. *Lakes as Complex Socio-Ecological Systems: Exploring the Causalities between Human Land Use Decisions and Landscape Limnological Processes to Inform Sustainable Water Conservation Policies*, $49,978. PIs: A. Ligmann-Zielinska (Lead), M. Bremigan, **K.S. Cheruvelil**, D. Kramer, P. Soranno. 2011 – 2013.

Center for Water Sciences Postdoc Grant: *Understanding complex aquatic landscapes: Lakes as model systems for integrating ecology, economics, human behavior and policy.* $131,500. PIs: **K.S. Cheruvelil** (Lead), M. Bremigan, D. Kramer, A. Ligmann-Zielinska, P. Soranno, K. Webster. 2009 – 2011.

Center for Water Sciences: *Developing and Applying a Spatially-explicit Policy Infrastructure Database to Better Understand and Manage Inland Lakes.* $136,700. CO-PIs: D. Kramer and **K.S. Cheruvelil**. 2008 –2011.

Creating Inclusive Excellence: *Discovering Diversity, Creating Inclusion: An Inquiry into Diversity and Science.* $13,475. PIs: G. Montgomery (Lead), C. Fata-Hartley, **K.S. Cheruvelil**, A.M. McCright, Collaborator: K. McKnight Casey. 2010 – 2011.

Creating Inclusive Excellence: *Making “The Lyman Briggs Experience” Inclusive: Eliminating Underteaching and Increasing Successes for ALL Students.* $17,000. PIs: M. Davis and G.R. Urquhart (co-Leads), C. Fata-Hartley, **K.S. Cheruvelil**. 2009 – 2010.

Creating Inclusive Excellence: *Discovering Diversity, Creating Inclusion: An Inquiry into Diversity and Science.* $14,409. PIs: G. Montgomery (Lead), C. Fata-Hartley, **K.S. Cheruvelil**, A.M. McCright. 2009 – 2010.

OVPRGS Internal Research Grants Program: *The effects of lake shoreline development on painted and map turtle (Chrysemys picta and Graptemys geographica) populations.* $39,862. PI: **K. Cheruvelil**. 2008 – 2010.

Center for Water Sciences: *The role of macrophytes and their management on Daphnia food quality and quantity in shallow lakes*. $10,000. **K.S. Cheruvelil** and Orlando Sarnelle (Co-Leads). 2008 – 2009.

Center for Water Sciences: *Mapping Michigan’s Regulatory Infrastructure for Inland Lake Management.* $10,000. K.S. Cheruvelil and D. Kramer (Co-Leads). 2007 – 2008.

**Non-peer Reviewed Publications**

**Book Chapters, Proceedings Articles, and Bulletin Articles**

**Cheruvelil, K. Spence** and H. Kasozi. 2022. Exploring the exciting new landscape of inlands waters research. Chapter in: The Encyclopedia of Inland Waters. Elsevier.

Soranno, P.A., K.E. Webster, N.J. Smith, *J. Díaz Vázquez,* and **K. Spence Cheruvelil**. 2020*.* What’s in a “Lake” Name? That which we call a lake by any other name... Limnology and Oceanography Bulletin. [https://doi.org/10.1002/lob.10355](https://doi.org/10.1002/lob.10355%20%20)  *AM = 31, top 5%, H.* ***"2nd most read article ever in L&O Bulletin."***

**Cheruvelil, K. Spence** and B.L. Montgomery. 2019. Professional development of women leaders. Chapter in: Women Leading Change in Academia: Breaking the Glass Ceiling, Cliff and Slipper. A. Bonomi and C. Rennison, Editors. Cognella Publishers, San Diego. *Book was awarded* ***"2020 most promising textbook"*** *from the Textbook & Academic Authors Association* <https://www.taaonline.net/textbook-awards>

*McCullough, I.*, **K.S. Cheruvelil**, *S. Collins*, P.A. Soranno. 2019. Geographic patterns of the climate sensitivity of lakes. Bulletin of the Ecological Society of America 100(2): e01505. <https://doi.org/10.1002/bes2.1505>.

Luckie, D.B., J.J. Smith, **K.S. Cheruvelil**, C. Fata-Hartley, C.A. Murphy, and G.R. Urquhart. 2013. The “Anti-Cookbook Laboratory”: Converting “Canned” Introductory Biology Laboratories to Multi-week Independent Investigations. Tested Studies for Laboratory Teaching: Proceedings of the Association for Biology Laboratory Education, Vol. 34. <http://www.ableweb.org/volumes/vol-34/v34toc.htm>

Michigan Chapter of the North American Lake Management Society Lake Effect Newsletter: *The Value of Michigan’s Lakes and Streams*, April 2008.

**Datasets, Code, and Team Science Resources**

Sun, X. and K.S. Cheruvelil. 2025. Local water years for 4-digit hydrologic unit areas across the conterminous United States ver 3. Environmental Data Initiative. <https://doi.org/10.6073/pasta/c27e57749f856bd24dc7c7559b9b316b>

Shuvo, A.K., N.R. Lottig, K.E. Webster, A. Delany, K. Reinl, C. Gries, N.J. Smith, A.C. Poisson, I.M. McCullough, S.M. Collins, K.B. King, E. Phillips, **K.S. Cheruvelil**, and P.A. Soranno. 2023. LAGOS-US LIMNO: Data module of surface water chemistry from 1975-2021 for lakes in the conterminous U.S. ver 5. Environmental Data Initiative. <https://doi.org/10.6073/pasta/2c58f5a50ab813919f99cc1f265f271c>.

Polus§, S.M., P.J. Hanly§, L.K. Rodriguez, Q. Wang, J. Díaz Vázquez, K.E. Webster, P. Tan, J. Zhou, L. Danila, P.A. Soranno, and **K.S. Cheruvelil**. 2022. LAGOS-US RESERVOIR: Data module classifying conterminous U.S. lakes 4 hectares and larger as natural lakes or reservoirs ver 2. Environmental Data Initiative. <https://doi.org/10.6073/pasta/f9aa935329a95dfd69bf895015bc5161>.

Smith, N.J., K.E. Webster, L.K. Rodriguez, **K.S. Cheruvelil**, and P.A. Soranno. 2022. LAGOS-US GEO v1.0: Data module of lake geospatial ecological context at multiple spatial and temporal scales in the conterminous U.S. ver 2. Environmental Data Initiative. <https://doi.org/10.6073/pasta/53ae2afd051a6a082a2ab129e4281e13>.

**Cheruvelil, K.S.,** K.E. Webster, K.B. King, A.C. Poisson, and T. Wagner. 2022. LAGOS-NE Shallow Lakes: a dataset of lake variables and multi-scaled ecological context variables used to predict and compare trophic status and TP:CHLa relationships between shallow and non-shallow lakes in the Upper Midwest and Northeastern United States. ver 1. Environmental Data Initiative. <https://doi.org/10.6073/pasta/be49507b941815d7a6807a273ee02d1e>.

Stachelek, J., L.K. Rodriguez, J. Díaz Vázquez, A. Hawkins, E. Phillips, A. Shoffner, I.M. McCullough, K.B. King, J. Namovich, L.A. Egedy, M. Haite, P.J. Hanly, K.E. Webster, **K.S. Cheruvelil**, and P.A. Soranno. 2021. LAGOS-US DEPTH v1.0: Data module of observed maximum and mean lake depths for a subset of lakes in the conterminous U.S. ver 1. Environmental Data Initiative. <https://doi.org/10.6073/pasta/64ddc4d04661d9aef4bd702dc5d8984f>.

Smith, N.J., K.E. Webster, *L.K. Rodriguez*, **K.S. Cheruvelil**, and P.A. Soranno. 2021. LAGOS-US LOCUS v1.0: Data module of location, identifiers, and physical characteristics of lakes and their watersheds in the conterminous U.S. ver 1. Environmental Data Initiative. <https://doi.org/10.6073/pasta/e5c2fb8d77467d3f03de4667ac2173ca>

*King, K.B., Q. Wang, L.K. Rodriguez, M. Haite, L. Danila,* P. Tan, J. Zhou, and **K.S. Cheruvelil**. 2021. LAGOS-US NETWORKS v1.0: Data module of surface water networks characterizing connections among lakes, streams, and rivers in the conterminous U.S ver 1. Environmental Data Initiative. <https://doi.org/10.6073/pasta/98c9f11df55958065985c3e84a4fe995>

**Cheruvelil, K.S.**, K.C. Elliott, G.M. Montgomery, I.H. Settles, and P.A. Soranno. 2019. Ethics & Team Power Dynamics in Authorship Decisions. Case Study published in the Online Ethics Center for Engineering. <https://onlineethics.org/cases/case-study-ethics-team-power-dynamics-authorship-decisions>

Soranno, P.A. and **K.S. Cheruvelil.** 2019. Template for creating team authorship policies for collaborative research. Figshare. <https://doi.org/10.6084/m9.figshare.8321105.v1> Online Resource Accessed 4/25/2019.

Soranno, P.A. and **K.S. Cheruvelil**. 2017. LAGOS-NE-LIMNO v1.087.1: A module for LAGOS-NE, a multi-scaled geospatial and temporal database of lake ecological context and water quality for thousands of U.S. Lakes: 1925-2013, Environmental Data Initiative, <http://dx.doi.org/10.6073/pasta/b1b93ccf3354a7471b93eccca484d506>.

Soranno, P.A. and **K.S. Cheruvelil.** 2017. LAGOS-NE-GEO v1.05: A module for LAGOS-NE, a multi-scaled geospatial and temporal database of lake ecological context and water quality for thousands of U.S. Lakes: 1925-2013. Environmental Data Initiative, <http://dx.doi.org/10.6073/pasta/b88943d10c6c5c480d5230c8890b74a8>.

Soranno, P.A. and **K.S. Cheruvelil** 2017. LAGOS-NE-LOCUS v1.01: A module for LAGOS-NE, a multi-scaled geospatial and temporal database of lake ecological context and water quality for thousands of U.S. Lakes: 1925-2013. Environmental Data Initiative, <http://dx.doi.org/10.6073/pasta/940b25d022c695b440e1bdbc49fbb77b>.

**Cheruvelil, K.S.**, *J.-F. Lapierre*, and D. Seekell. 2017. Latitudinal gradients in phosphorus and vegetation biomass for Sweden and Denmark. Figshare, <http://doi.org/10.6084/m9.figshare.5614588>.

**Cheruvelil, K.S.**, *J.-F. Lapierre*, and D. Seekell. 2017b. Institutions studying lake carbon cycling. Figshare, <http://doi.org/10.6084/m9.figshare.5612968>.

*Fergus, C.E., J.-F. Lapierre, S.K. Oliver, N.K. Skaff,* **K.S. Cheruvelil**, K.E. Webster, C. Scott, P.A. Soranno,.2017. Freshwater connectivity clusters for lakes, wetlands, and streams at the Hydrologic Unit 12 scale in the Midwest and Northeast U.S.A. – freshwater metric variables and K-means cluster assignment, Environmental Data Initiative, <http://dx.doi.org/10.6073/pasta/1dc5b024390539f1f7dda70470d35766>.

*Fergus, C.E., J.-F. Lapierre, S.K. Oliver, N.K. Skaff,* **K.S. Cheruvelil**, K.E. Webster, C. Scott, P.A. Soranno,.2017. Integrated freshwater abundance and connectivity clusters at the Hydrologic Unit 8 scale for the Midwest and Northeast U.S.A. – freshwater metric variables and k-means cluster assignment, Environmental Data Initiative, <http://dx.doi.org/10.6073/pasta/e69b7495674e403baa19a22ffbfb40e1>.

**Cheruvelil**, **K.S.,** *S. Yuan*, K.E. Webster, P.-N. Tan, *J.-F. Lapierre, S.M. Collins, C.E. Fergus, C.E. Scott,* E.N. Henry, P.A. Soranno, *C.T. Filstrup*, T. Wagner. 2016*.* Data from:Creating multi-themed ecological regions for macrosystems ecology: Testing a flexible, repeatable, and accessible clustering method. Ecology and Evolution. Environmental Data Initiative, <http://dx.doi.org/10.6073/pasta/1532a9a0c023fa50a912021291c8fc1f>.

**Cheruvelil, K.S.** 2016. R code-Creating multi-themed ecological regions for macroscale ecology: testing a flexible, repeatable, and accessible clustering method. <https://github.com/cont-limno/SpectralClustering4Regions>.

Soranno, P.A., **K.S. Cheruvelil**, T. Wagner, K.E. Webster, M.T. Bremigan. 2015. Data from: *Effects of land use on lake nutrients: The importance of scale, hydrologic connectivity, and region.* PLoSONE. Dryad Digital Repository. <http://dx.doi.org/10.5061/dryad.58445>.

Lottig, N., T. Wagner, *E. Henry*, **K.S. Cheruvelil**, K. Webster, J. Downing, and C. Stow. 2014. Data from: *Long-term citizen-collected data reveal geographical patterns and temporal trends in lake water clarity.* PLosONE. Long Term Ecological Research Network. <http://dx.doi.org/10.6073/pasta/5f94d3db0f3b7f1648579bf319aefacc>

[**Cheruvelil K.S.**, P.A. Soranno, K.E. Webster, and M.T. Bremigan. 2013. Data from: *Multi-scaled drivers of ecosystem state: quantifying the importance of the regional spatial scale.*Ecological Applications. Dryad Digital Repository. http://dx.doi.org/10.5061/dryad.75s9s](http://datadryad.org/resource/doi:10.5061/dryad.75s9s)

[*Fergus C.E.*, P.A. Soranno, **K.S.** **Cheruvelil**, and M.T. Bremigan. 2011. Data from: *Multi-scale landscape and wetland drivers of lake total phosphorus and water color.*Limnology and Oceanography. Dryad Digital Repository. http://dx.doi.org/10.5061/dryad.4v2m5](http://datadryad.org/resource/doi:10.5061/dryad.4v2m5)

[Soranno P.A., **K.S.** **Cheruvelil**, R.J. Stevenson, S.L. Rollins, S.W. Holden, S. Heaton, and E. Torng. 2008. Data from: *A framework for developing ecosystem-specific nutrient criteria: integrating biological thresholds with predictive modeling.* Limnology and Oceanography. Dryad Digital Repository. http://dx.doi.org/10.5061/dryad.5df61](http://datadryad.org/resource/doi:10.5061/dryad.5df61)

**Technical Reports, Extension Publications, and Other Outreach Products**

*Parra, D*., Montgomery, G., Elliott, K., and the **CLIMBS UP Team**. 2024. CLIMBS UP Biology Report: Climate for Inclusion. Ann Arbor and East Lansing, MI: CLIMBS UP Project. Dissemination report for professional societies and academic departments.

*Parra, D*., Montgomery, G., Elliott, K., and the **CLIMBS UP Team**. 2024. CLIMBS UP Economics Report: Climate for Inclusion. Ann Arbor and East Lansing, MI: CLIMBS UP Project. Dissemination report for professional societies and academic departments.

*Parra, D.,* Montgomery, G., Elliott, K., and the **CLIMBS UP Team**. 2024. CLIMBS UP Physics Report: Climate for Inclusion. Ann Arbor and East Lansing, MI: CLIMBS UP Project. Dissemination report for professional societies and academic departments.

*Parra, D.,* Montgomery, G., Elliott, K., and the **CLIMBS UP Team**. 2024. CLIMBS UP Psychology Report: Climate for Inclusion. Ann Arbor and East Lansing, MI: CLIMBS UP Project. Dissemination report for professional societies and academic departments.

**Cheruvelil, K.S.** and P.A. Soranno. Developing nutrient criteria in Michigan lakes: Revision, update, and validation of the lake-specific model for establishing expected nutrient conditions in Michigan lakes. Technical Report to the Michigan Department of Environmental Quality (MI-DEQ). January 2015.

*Alwin, T.G.* and **K.S. Cheruvelil**. Biological Control of Eurasian Watermilfoil: A Review of the Native Watermilfoil Weevil. Michigan State University Extension Bulletin WQ – 61, June 2009.

**Cheruvelil, K.S**., *C.E. Fergus, A. Aubeneau*, P.A. Soranno, *T.G. Alwin* and E. Rosi-Marshall. Assessment of coastal water resources and watershed conditions at Indiana Dunes National Lakeshore, Indiana. Technical Report to the National Park Service, May 2008.

**Cheruvelil, K.S**. The value of Michigan’s lakes and streams. Technical report to the MI-DEQ, March 2006.

Soranno, P.A., **K. Spence Cheruvelil**, R.J. Stevenson, and S. Rollins. Lake nutrient criteria: Identifying benchmark conditions for nutrient criteria development. Technical Report to the MI-DEQ. November 2005.

**Professional Memberships**

Alpha Phi Omega – National Co-educational Service Fraternity

American Association for the Advancement of Science

Association for the Sciences of Limnology and Oceanography

AWIS-Institutional Member (Association for Women in Science)

Ecological Society of America

International Association of Landscape Ecology

Phi Beta Kappa - National Honor Society

Sigma Delta Epsilon - Graduate Women in Science

**Contributed Oral**

**Presentations, Posters, & Workshops**

Presenter listed first, students/post-docs italicized, KSC bolded

*Sun, X.*, **K.S. Cheruvelil**, P.J. Hanly, K.E. Webster, and P.A. Soranno. Natural and human drivers of specific conductance and major ion composition in United States lakes. Oral presentation at the Association for the Sciences of Limnology and Oceanography Aquatic Sciences Meeting, March 2025, Charlotte, NC.

**Cheruvelil, K.S.,** *T. Olson, L. Nadolsky, M. Haite, P. Grower, H. Douglas*, and L. Gonzales. The roles of gender and institutional characteristics in the climate experiences of doctoral students at U.S. Hispanic Serving Research Institutions. Poster Presentation at the Network Gender in STEM Conference. July 2024. Heidelberg, Germany.

*Douglas, H.M*., I.H. Settles, K.C. Elliott, G.M. Montgomery, E.A. Cech, and **K.S. Cheruvelil**. Disparate perceptions of authorship climate for early-career women and people of color compared to white men in academic STEM. Oral presentation at the Network Gender in STEM Conference. July 2024. Heidelberg, Germany.

**Cheruvelil**, **K.S.,** P.A. Soranno, and K.E. Webster.The LAGOS-US Research Platform: Advancing lake ecology at scale.Oral presentation to the Association for the Sciences of Limnology and Oceanography Annual Meeting, June 2024. Madison, WI.

*Sun, X.,* **K.S. Cheruvelil**, P.J. Hanly, and P.A. Soranno. Responses of natural lake and reservoir productivity to drought are affected by connectivity and ecological context across the conterminous U.S. Oral presentation at the Association for the Sciences of Limnology and Oceanography Annual Meeting, Madison, June 2024. WI.

*Douglas, H.M.,* Settles, I.H., **CLIMBS UP Team**. Chilly climates for marginalized scholars: How research group, department, and field climates affect career attitudes. Oral presentation at the Society for Personality and Social Psychology Annual Conference. February 2024. San Diego, California.

**Cheruvelil**, **K.S.**,P.A. Soranno, and K.E. Webster.Tools and knowledge gained from two decades of studying U.S. lakes with data-intensive science, open science, and team science approaches.Oral presentation at the Association for the Sciences of Limnology and Oceanography Annual Meeting, Palma de Mallorca June 2023.

*Díaz Vázquez, J. I. McCullough., M. Haite,* P.A. Soranno, and **K.S. Cheruvelil**. Environmental justice: Communities of color & Hispanic communities lack data on lake health.Oral presentation at the Association for the Sciences of Limnology and Oceanography Annual Meeting, Palma de Mallorca June 2023.

Soranno, P.A., P.J. Hanly, K.E. Webster, **K.S. Cheruvelil**, N.R. Lottig, *I.M. McCullough, A. McDonald*, *K.L. Reinl*, E.M. Schliep, *A. Shuvo*, P.-N. Tan, T. Wagner. Abrupt changes in the productivity of 25,000 lakes in the continental U.S. related to climate change and land use intensification.Oral presentation at the Association for the Sciences of Limnology and Oceanography Annual Meeting, Palma de Mallorca, June 2023.

Webster, K.E., **K.S. Cheruvelil**, P.A. Soranno and 8 other authors. The LAGOS-US open-access research platform: building understanding of US lakes at regional to continental scales. Poster presentation at the Association for the Sciences of Limnology and Oceanography Annual Meeting, Palma de Mallorca, Spain. June 2023.

*Douglas, H.M.,* Settles, I.H., **CLIMBS UP Team**. Impact of Organizational Climate on Marginalized Early Career Scholars. Oral presentation at the Society for the Psychological Study of Social Issues Annual Convention. June 2023. Denver, Colorado.

*Douglas, H.M.,* Settles I.H., **CLIMBS UP team**. Authorship climate in collaborative teams can help explain negative perceptions of department climate for early career scholars. Online research spotlight presentation at the Annual Conference for the Society of Personality and Social Psychology. February 2023. Atlanta, Georgia.

*Douglas, H.M*., Settles, I.H., Cech, E.A., Montgomery, G.M., *Nadolsky, L.R., Hawkins, A., Ma, G., Davis, T. M.,* Elliott, K.C., **Cheruvelil, K.S.** Different boats for different folks: Impact of COVID-19 in academia. Oral presentation at the annual Society for the Psychological Study of Social Issues. June 2022. San Juan, Puerto Rico.

*Díaz Vázquez, J. I. McCullough, M. Haite,* P.A. Soranno, and **K.S. Cheruvelil**. Environmental justice: Communities of color & Hispanic communities lack data on lake health.Oral presentation at the Joint Aquatic Sciences Meeting. May 2022. Grand Rapids, Michigan.

*Domka*,*M.,* **K.S. Cheruvelil**, and P.J. Hanly. Comparing measures of water quality and waterfowl populations between natural lakes and reservoirs. Poster presentation at the Joint Aquatic Sciences Meeting. May 2022. Grand Rapids, Michigan.

*Matuszak*, *D.,* P.J. Hanly, and **K.S. Cheruvelil**. Zebra mussel (*Dreissena polymorpha*) invasion in natural lakes vs reservoirs in the conterminous U.S. Oral presentation at the Joint Aquatic Sciences Meeting. May 2022. Grand Rapids, Michigan.

*McDonald, A., P.J. Hanly,* K.E. Webster, T. Wagner, *A. Shuvo,* N. Lottig, E.H. Stanley, *K. Reinl, I. McCullough,* E.M. Schliep, **K.S. Cheruvelil**, P.-N. Tan and P.A. Soranno. The lake is greener on the other side: A continental-scale study of the nonlinearities and heterogeneity in lake productivity response to climate change. Oral presentation at the American Geophysical Union Fall Meeting. October 2022, Chicago, IL

*King, K.,* M.T. Bremigan, D. Infante, D., T. Wagner, and **K.S. Cheruvelil.** Crossing ecosystem boundaries to better understand macroscale fish diversity in lakes and streams. Virtual oral presentation to the Society for Freshwater Science. May 2021. *Conference fully virtual due to COVID-19.*

Sánchez, M.L., I. Izaguirre, H. Zagarese, M.R. Schiaffino, M. Castro Berman, G. Chaparro, S. Baliña, M.S. Vera, **K.S. Cheruvelil**. Drivers of planktonic chlorophyll *a* in Pampean shallow lakes: a regional approach. Virtual oral presentation to the 10th Shallow Lakes Congress. March 2021. *Conference fully virtual due to COVID-19.*

*McCullough, I.,* **K.S. Cheruvelil***,* J.-F. Lapierre, N. Lottig, M. Moritz, *J. Stachelek*, and P.A. Soranno.A fireside chat: large wildfires are a looming threat to US lakes. Virtual oral presentation to American Geophysical Union. December 2020. *Conference fully remote due to COVID-19.*

*Ma, G.* K.C. Elliott, I. Settles, **K.S. Cheruvelil**, E. Cech, and G. Montgomery. Broadening Participation of Underrepresented Scholars in Academic STEM: The Influence of an Inclusive Climate on Early-Career Outcomes. National Science Foundation, December 2020. ECR PI Meeting. *Conference fully virtual due to COVID-19.*

*McCullough, I.,* **K.S. Cheruvelil***,* J.-F. Lapierre, N. Lottig, M. Moritz, *J. Stachelek*, and P.A. Soranno.A fireside chat: large wildfires are a looming threat to US lakes. Virtual oral presentation to American Geophysical Union. December 2020. *Conference fully remote due to COVID-19.*

*McCullough, I.M.*,**K.S. Cheruvelil***, J. Diaz, M. Haite, P.J. Hanly*, *K.B.S. King, L.K. Rodriguez,* N.J. Smith and *J. Stachelek.* Data synthesis: No picnic, but no need to panic.Virtual oral presentation to the Ecological Society of America. August 2020. *Conference fully virtual due to COVID-19.*

*King*, *K.,* A. Pollard, and **K.S. Cheruvelil**. National datasets contribute to the understanding of the drivers and spatial structure of total phosphorus in lakes, wetlands, and streams. Virtual oral presentation to the Ecological Society of America. August 2020. *Conference fully virtual due to COVID-19.*

*King, K.*, M.T. Bremigan, D. Infante, and **K.S. Cheruvelil**. How does connectivity affect freshwater fish diversity among lakes and streams at macroscales. Poster presentation to GLEON 21 Conference. Muskoka, Ontario, Canada. November 2019.

Campa III, H., M. Urban-Lurain, A. Bala, K.S. Cheruvelil, D. Ebert-May, A. Kim, K. Parkin, L. Prevost, J.N. Saldanha, A. Rober, K. Salk, L.-A. Tomaswick, and C. Vergara. STEM doctoral students get a “FAST” start to their careers at Michigan State University. Poster presentation at the National CIRTL Forum, Drexel University, Philadelphia, PA. October 2019.

*King, K.*, M.T. Bremigan, D. Infante, and **K.S. Cheruvelil.** How does connectivity affect freshwater fish diversity among lakes and streams at macroscales. Oral presentation at the Michigan State University Environmental Science and Policy Program Symposium. East Lansing, MI. October 2019.

*King, K.,* M.T. Bremigan, D. Infante, and **K.S. Cheruvelil**. Crossing ecosystem boundaries to better understand macroscale fish diversity. Oral presentation at the 2019 joint annual meeting of the American Fisheries Society and Wildlife Society. Reno, NV. October 2019.

*McCullough*, *I.M.,* **K.S. Cheruvelil**, J.-F. Lapierre, N.R. Lottig, and P.A. Soranno Extending the patch-matrix model to fresh waters: A connectivity-based conservation framework for lakes. Oral presentation to the Ecological Society of America, Louisville, KY. August 2019.

Elliott, K.C., I. Settles, **K.S. Cheruvelil**, G. Montgomery, P.A. Soranno. *Authorship Decisions: Advocating for Representation,* Workshop facilitated at the 2019 Science of Team Science (SciTS) Conference, Lansing, MI. May 2019.

**Cheruvelil, K.S.**, *A. De Palma-Dow*, K. Smith. Strategies to promote effective student research teams in undergraduate science labs Poster presentation to the 2019 Science of Team Science (SciTS) Conference, Lansing, MI. May 2019.

Soranno, P.A. and **K.S. Cheruvelil.** Leading large interdisciplinary research teams: Lessons from LAGOS. Oral presentation to the 2019 Science of Team Science (SciTS) Conference, Lansing, MI. May 2019.

Settles, I. *S. Brassel*, P. Soranno, **K.S. Cheruvelil**, G. Montgomery, K. Elliott. Team climate mediates the effect of diversity on science teams. Oral presentation to the 2019 Science of Team Science (SciTS) Conference, Lansing, MI. May 2019.

*Davis, M.,* G. Montgomery, *S. Brassel*, **K.S. Cheruvelil**, K. Elliott, I. Settles, and P. Soranno. A voice to be Heard: Understanding the experiences of Lesbian, Bisexual, Gay, Transgender, and Queer+ people in STEM. MSU LBC Research Symposium, E. Lansing, MI. April 23, 2019.

*Fournier, J.,* K. Elliott, **K.S. Cheruvelil**. How Does Gender Influence Interdisciplinary Science Teams? MSU LBC Research Symposium, E. Lansing, MI. April 23, 2019.

*Brassel*, *S.T.,* I.H. Settles, Elliott, K.C., **K.S. Cheruvelil**, G.M. Montgomery, and P.A. Soranno. Team Climate Mediates the Effect of Diversity on Science Teams. Poster presentation atThe International Convention of Psychological Science (ICPS), Paris, France. March 2019.

Elliott, K.C., **K.S. Cheruvelil**, P.A. Soranno, G. Montgomery, I. Settles. *Navigating Team Power Dynamics in Authorship Decisions,* Workshop facilitated at the 2019 American Association for the Advancement of Science (AAAS) Conference, Washington, DC. February 2019.

*McCullough*, *I.M.,* **K.S. Cheruvelil**, J.-F. Lapierre, N.R. Lottig, and P.A. Soranno Do lakes feel the burn? Effects of fire on North American lake ecosystem properties. Oral presentation to the Ecological Society of America, New Orleans, LA. August 2018.

*McCullough*, *I.M.,* **K.S. Cheruvelil**, *S.M. Collins* and P.A. Soranno geographic patterns of the climate sensitivity of lakes. Oral presentation to the Association for the Sciences of Limnology and Oceanography, Victoria, BC. June 2018.

**Cheruvelil**, **K.S.,** T. Wagner, K. Webster, *K. King*, and A. Poisson. Macroscale patterns and drivers of phosphorus and chlorophyll in shallow lakes.Oral presentation to the Association for the Sciences of Limnology and Oceanography, Victoria, BC. June 2018.

*Lapierre, J.-F.*, **K.S. Cheruvelil**, C. Filstrup, A. Heathcote, P. Maisonneuve, and D. Seekell. Is limnology becoming increasingly abiotic and global?Oral presentation to the Association for the Sciences of Limnology and Oceanography, Victoria, BC. June 2018.

*King*, *K.,* A. Pollard, and **K.S. Cheruvelil**. The macroscale patterns of biota and water chemistry in lake, stream, and wetland ecosystems. Oral presentation to the Association for the Sciences of Limnology and Oceanography, Victoria, BC. June 2018.

*Brassel*, *S.T.,* Elliott, K.C., I.H. Settles, **K.S. Cheruvelil**, G.M. Montgomery, and P.A. Soranno. Interdisciplinary Scholarship to Promote Inclusivity in Science: A Case Study of Credit and Authorship. Oral presentation toThe Consortium for Socially Relevant Philosophy of/in Science and Engineering (SRPoiSE), Atlanta, GA. June 2018.

*Twardochleb, L., Q. Read*, P. Zarnetske, *E. Hiltner*, K. Dahlin, **K. Cheruvelil**, P. Soranno and *A. Kamoske*. Scaling relationships between freshwater insect diversity and the terrestrial environment Oral presentation to the Society of Freshwater Science, Detroit, MI May 2018.

Smith, N., P. Soranno, **K.S. Cheruvelil**, *J. Stachelek*, and C. Gries Mapping a journey towards open science: Lessons learned building a lake water quality geodatabase. Oral to American Water Resources Association GIS and Water Resources Conference, Orlando, FL April 2018.

*Phillips, E*., **K.S.** **Cheruvelil,** *S. Brassel*, K. Elliott, G. Montgomery, and P. Soranno. What Drives Interdisciplinary Science Team Productivity? Poster presentation at the MSU 12th Annual Lyman Briggs Undergraduate Research Symposium. April 2018.

*Brassel, S*., Settles, I., Montgomery, G., Elliott, K., Soranno, P., and **Cheruvelil, K**. Power, career status, and the dark side of “inclusion” in interdisciplinary research teams. Oral presentation at the Association for Women in Psychology, Philadelphia, PA, March 2018.

*King*, *K.,* A. Pollard, and **K.S. Cheruvelil**. The macroscale patterns of biota and water chemistry in lake, stream, and wetland ecosystems. Oral presentation 13th Annual MSU Fisheries and Wildlife Graduate Research Symposium. February 2018.

*Skaff, N.K.*, P.M. Armstrong, T.G. Andreadis, and **K.S. Cheruvelil**. Wetland characteristics linked to *Cs. melanura* abundance and Eastern equine encephalitis virus Poster presentation at the 19th Global Lakes Ecological Observation Network All-Hands Meeting, New Paltz, NY November 2017.

*King, K.*, **K.S. Cheruvelil** and A. Pollard. How do macroscale patterns of water chemistry and biota vary across lakes, wetlands, and streams? Poster presentation at the 19th Global Lakes Ecological Observation Network All-Hands Meeting, New Paltz, NY November 2017.

Settles, I., *Brassel, S.,* Montgomery, G., Elliott, K., Soranno, P., and **K.S.** **Cheruvelil**. The Dark Side of "Inclusion": Power and Interdisciplinary Authorship Practices. Poster presentation at the 2017 History of Science Society Annual Meeting, Toronto, Ontario. November 2017

*Skaff, N.K.*, P.M. Armstrong, T.G. Andreadis, and **K.S. Cheruvelil**. Wetland characteristics linked to *Cs. melanura* abundance and Eastern equine encephalitis virus Poster presentation to 15th annual Ecology and Evolution of Infectious Diseases Conference, Santa Barbara, CA June 2017.

Settles, I., *Brassel, S.,* Montgomery, G., Elliott, K., Soranno, P., and **K.S.** **Cheruvelil**. The dark side of “inclusivity”: Power and interdisciplinary authorship practices. Oral presentation to the annual meeting of the Society for the Psychological Study of Social Issues, Albuquerque, NM. June 2017.

*Skaff, N.K.*, P.M. Armstrong, T.G. Andreadis, and **K.S. Cheruvelil**. The scale-dependent influence of wetlands and climate on mosquito abundance and viral infection. Poster presentation to the 47th Annual Society for Vector Ecology Conference, Anchorage, AK. September 2016.

Lottig, N.R., P.-N. Tan, T. Wagner, **K.S. Cheruvelil**, C.E. Scott, P.A. Soranno, E.H. Stanley, C.A. Stow, and *S. Yaun*. Long-term patterns and drivers of water clarity at sub-continental spatial scales. Oral presentation to the Association for the Sciences of Limnology and Oceanography, Santa Fe, NM. June 2016.

*Lapierre, J.-F., S.M. Collins,* P.A. Soranno, **K.S. Cheruvelil**, P.-N. Tan, T. Wagner, *N. Skaff, C.E. Fergus, D. Seekell* Aligning spatial scales improves understanding of relationships between climate, landscape and limnological properties. Oral presentation to the Association for the Sciences of Limnology and Oceanography, Santa Fe, NM. June 2016.

*Fergus, C.E., J.-F.,* *Lapierre, S. Oliver, N. Skaff*, C. Scott, **K.S. Cheruvelil**, P.A. Soranno, and K.E. Webster. Patterns of lake, wetland, and stream connectivity at macroscales. Oral presentation to the Association for the Sciences of Limnology and Oceanography, Santa Fe, NM. June 2016.

*Oliver, S., S. Collins*, E.H. Stanley, P.A. Soranno, **K.S. Cheruvelil**, *J-F Lapierre*, N.R. Lottig, T. Wagner. Recent changes in lake N & P concentrations: Where are we now? Oral presentation to the Association for the Sciences of Limnology and Oceanography, Santa Fe, NM. June 2016.

**Cheruvelil, K.S.** Course-based research experiences. Oral presentation/session facilitator for the 2016 Ontario Consortium of Undergraduate Biology Educators unConference, Muskoka, ON, CA. May 2016.

Elliott, K.C., I. Settles, *S. Brassel*, G.M. Montgomery, **K.S. Cheruvelil**, P.A. Soranno. The dark side of “inclusivity”: Problematizing authorship practices in interdisciplinary teams. Oral presentation to the 2016 Science of Team Science Conference, Phoenix, AZ. May 2016.

*Lapierre, J.-F.,* **K.S. Cheruvelil**, *S.M. Collins, C.E. Fergus, C.T. Filstrup, D. Seekell*, P.A. Soranno. Climate and land-use gradients drive spatially coherent CO2 driver-response relationships across U.S. lakes. Oral Presentation to the 25th Joint Assembly of the AGC-AGU-AMC-UGC, Montreal, Quebec, CA. May 2015

Yuan, S., P.-N. Tan, **K.S. Cheruvelil** and P.A. Soranno. Development of a Regionalization System Using Contiguity-Based Constrained Spectral Clustering. Poster presentation at the MSU Computer Science and Engineering Graduate Research Symposium. April 2015

Soranno, P.A., **K.S. Cheruvelil**, K. Elliott, and G. Montgomery. Exploratory Analysis and Big Data. Oral presentation toThe Consortium for Socially Relevant Philosophy of/in Science and Engineering (SRPoiSE) Detroit, MI. March 2015.

Elliott, K.E., I. Settles, G. Montgomery,P.A. Soranno and **K.S. Cheruvelil**. STEP (Science Teams’ Effective Practices) Oral presentation toThe Consortium for Socially Relevant Philosophy of/in Science and Engineering (SRPoiSE) Detroit, MI. March 2015.

*Lapierre, J.-F., Z.E. Taranu*, **K.S. Cheruvelil**, P. A. Soranno. LAGOS-Québec: Bâtir un réseau collaboratif pour l’étude de la qualité de l’eau des lacs [LAGOS-Quebec: Building a collaborative network for studying lake water quality]. Poster presentation at the 25th Annual GRIL Symposium Saint-Hippolyte, Québec. March 2015.

**K.S. Cheruvelil**. Creating, using, and assessing student research teams. Poster presentation at the 100th Ecological Society of America Annual Meeting. Baltimore, MD, August 2015.

*Skaff, N.K*. **and K.S. Cheruvelil.** Fine-scale wetland characteristics modulate vector-specific and climate-dependent macroscale patterns in mosquito-borne disease incidence. Oral presentation to the 100th Ecological Society of America Annual Meeting. Baltimore, MD, August 2015.

Soranno, P.A., **K.S. Cheruvelil**, K.C. Elliott, D. Higgins, G.M. Montgomery, S. Nicholson, P.-N. Tan, E. Tans. Evidence for the historical development of and recent trends in data-intensive ecology. Oral presentation to the 100th Ecological Society of America Annual Meeting. Baltimore, MD, August 2015.

**Cheruvelil, K.S.**, *S. Yuan, S.M. Collins, C.E. Fergus, C.T. Filstrup*, E.N Henry, *J.-F. Lapierre, C.E. Scott*, P.A. Soranno, P.-N. Tan, T. Wagner, K.E. Webster. Balancing landscape homogeneity and region contiguity when creating regionalization frameworks. Oral presentation to the 100th Ecological Society of America Annual Meeting. Baltimore, MD, August 2015.

*Lapierre, J.-F., S.M. Collins, C.E. Scott,* **K.S. Cheruvelil**, P.-N. Tan, M.T. Bremigan, T. Wagner, P.A. Soranno. The role of spatial structure in determining the strength of the relationships among climate, landscape and limnological properties. Oral presentation to the 100th Ecological Society of America Annual Meeting. Baltimore, MD, August 2015.

Soranno, P.A. and **K.S. Cheruvelil**.Creating integrated geospatial-temporal databases for broad-scale limnology. Oral Presentation to the Global Lakes Ecological Observation Network All-Hands Meeting. October, 2014.

Kramer, D.B., A. Ligmann-Zielinska, **K.S. Cheruvelil**, P.A. Soranno, S. Salap, and P. Jankowski, P. Multiscale spatial sensitivity analysis for agent-based modelling of coupled landscape and aquatic systems. Oral presentation at the 7th International Congress on Environmental Modelling and Software, San Diego, CA. June 2014.

*Fergus, C.E., N. Skaff, S. Oliver, C. Scott,* P.A. Soranno, **K.S. Cheruvelil**, K.E. Webster, M. Tate Bremigan. Freshwater connectivity (FW) of lakes, streams, and wetlands at macroscales. Poster Presentation to the Global Lakes Ecological Observation Network All-Hands Meeting. October, 2014.

*Oliver, S.*, S.H. Emily, **K.S. Cheruvelil**, J.A. Downing, *C.E. Fergus*, P.A. Soranno, T. Wagner, K.E. Webster, *L. Winslow.* Prediction and patterns of lake depth across a 17-state region in the U.S. Oral presentation at the Joint Aquatic Sciences Meeting, Portland, OR. May 2014.

*Scott*, *C., C.E. Fergus,* *N, Skaff,* N.R. Lottig*, C.T. Filstrup,* T. Wagner***,***P.A.Soranno, **K.S. Cheruvelil.** The effects of climate change on lake water quality at macroscales. Oral presentation to the Joint Aquatic Sciences Meeting. Portland, OR. May 2014.

*Fergus, C.E., S. Oliver, N. Skaff, C. Scott,* P.A. Soranno, **K.S. Cheruvelil**, K. Webster, M. Tate Bremigan. Measuring patterns of lake, stream, and wetland connectivity at macroscales. Oral presentation to the Joint Aquatic Sciences Meeting. Portland, OR. May 2014.

Lottig, N., T. Wagner, P.-N. Tan, *S. Yuan, C. Scott,* C. Stow, P.A. Soranno, **K.S. Cheruvelil**, E. Stanley. Taxonomy of change: Using cluster analysis to identify temporal-patterns in limnological data. Oral presentation to the Joint Aquatic Sciences Meeting. Portland, OR. May 2014.

*De Palma-Dow, A.* and **K.S. Cheruvelil**. The roles of hydrologic connectivity and lake characteristics in shaping macrophyte communities of Isle Royal National Park inland lakes. Oral presentation to the Joint Aquatic Sciences Meeting. Portland, OR. May 2014.

*Christel, S.T., P.A.* Soranno, E.G. Bissell, **K.S. Cheruvelil**, S.*M. Collins, C.E. Fergus, C.T. Filstrup, J.-F. Lapierre*, N.R. Lottig*, S.K. Oliver, C.E. Scott*, N.J. Smith, S. Stopyak, *S. Yuan*, M. Tate Bremigan, J.A. Downing, C. Gries, E.N. Henry, *N.K. Skaff,* E.H. Stanley, C.A. Stow, P.-N. Tan, T. Wagner, K.E. Webster. Lessons from LAGOS: The triumphs and challenges of creating an integrated multi-scaled, multi-themed lake nutrient geodatabase at subcontinental scales. Oral presentation to the Joint Aquatic Sciences Meeting. Portland, OR. May 2014.

Webster, K.E., **K.S. Cheruveil**, *C. Wynne*, D. Tierney, and I. Donohue. A hierarchical approach towards understanding spatial patterns in lake water quality in the complex Ireland landscape. Oral presentation to the Annual Meeting of Irish Freshwater Biologists. Dublin, Ireland. March 2014.

**Cheruvelil K.S.**, P.A. Soranno, E. Bissell, M.T. Bremigan, J.A. Downing, *C.E. Fergus, C. Filstrup*, N. Lottig, *E.N. Henry*, E. Stanley, C. Stow, P.-N. Tan, T. Wagner and K. Webster. A conceptual framework for understanding multi-scaled cause-effect relationships between terrestrial and aquatic ecosystems. Oral presentation at the Symposium for European Freshwater Sciences, Munster, Germany. July 2013.

Soranno, P.A., **K.S. Cheruvelil**, J.A. Downing, E.H. Stanley, N.R. Lottig, P-N. Tan, T. Wagner, C.A. Stow, M.T. Bremigan, K.E. Webster, *C. Filstrup, E.N. Henry, C.E. Fergus*, E. Bissell. The effect of cross-scale interactions (CSIs) on freshwater ecosystem state across space and time. Poster presentation at the NSF-Macrosystems Biology PI Meeting, Washington, D.C. May 2013.

*De Palma-Dow, A.* and **K.S. Cheruvelil.** Drivers of macrophyte richness in undisturbed lakes: an Isle Royale Case Study.Oral presentation at the Midwest Aquatic Plant Management Society Annual Conference, Cleveland, OH. March 2013.

Stanley, E., N. Lottig, P. Soranno and K. Cheruvelil. Long-term data sets: opportunities and challenges for lake science and management. Oral presentation at the American Society of Limnology and Oceanography Aquatic Sciences Meeting, New Orleans, LA. February 2013.

*Norton Henry, E*. and **K.S. Cheruvelil**. Lake shoreline development affects turtle in-lake habitat use.Oral presentation at the American Society of Limnology and Oceanography Aquatic Sciences Meeting, New Orleans, LA. February 2013.

*Norton Henry, E*. and **K.S. Cheruvelil**. How does the presentation of data affect student understanding of statistics? Oral presentation at the American Society of Limnology and Oceanography Aquatic Sciences Meeting, New Orleans, LA. February 2013.

*De Palma-Dow, A.* and **K.S. Cheruvelil.** The roles of connectivity and abiotic lake and landscape features for understanding variation in macrophyte richness among undisturbed lakes. Poster presentation at the American Society of Limnology and Oceanography Aquatic Sciences Meeting, New Orleans, LA. February 2013.

*Fergus, C.E*., P.A. Soranno, **K.S. Cheruvelil**, M.T. Bremigan, and K.E. Webster. A landscape limnology framework to understand responses of lake ecosystems to environmental change across broad scales. Presented at the American Geophysical Union Fall Meeting, San Francisco, CA. December, 2012.

Ligmann-Zielinska, A., D.B. Kramer, **K.S. Cheruvelil**, P.A. Soranno. Sensitivity analysis in agent-based models of socio-ecological systems: an example in agricultural land conservation for lake water quality improvement. Poster presentation at the 45th Annual Fall Meeting of the American Geophysical Union, San Francisco, CA. December 2012.

Kramer, D.B., *T. Zhang,* **Cheruvelil, K.S.**, A. Ligmann-Zielinska, P.A. Soranno. Evaluating alternative strategies for investments in freshwater conservation. Oral presentation at the 45th Annual Fall Meeting of the American Geophysical Union, San Francisco, CA. December 2012.

Lottig, N., T. Wagner, *E. Norton Henry*, **K.S. Cheruvelil**, J.A. Downing, K.E. Webster, C.A. Stow. Non-monotonic Trends in Citizen-based Regional Lake Water Clarity. Poster presentation at the 32nd International Symposium of the North American Lake Management Society, Madison, WI. November 2012.

*Norton Henry, E*. and **K.S. Cheruvelil**. Lake shoreline development affects turtle in-lake habitat use. Oral presentation at the 32nd International Symposium of the North American Lake Management Society, Madison, WI. November 2012.

*Fergus, C.E.* P.A. Soranno, **K.S. Cheruvelil**,M.T. Bremigan. Making Informed Management Decisions About Your Lake Using Regional LandscapeOral presentation at the 32nd International Symposium of the North American Lake Management Society, Madison, WI. November 2012.

Ligmann-Zielinska, A., *C. Ling,* D.B.Kramer, **K.S. Cheruvelil**P.A. Soranno , and M.T. Bremigan. How simple is too simple? Using sensitivity simulation for factor reduction in agent-based modeling of agricultural land conservation. Oral presentation at the Royal Geographic Society conference, Edinburgh, Scotland, July 2012.

Smith, J.J., **K.S. Cheruvelil**, C. Fata-Hartley, Luckie, D.B., C. Murphy, and G. Urquhart. “Anti-Cookbook Labs”: Multi-week Guided-Inquiry Investigations for Introductory Biology. Poster Presentation at the Introductory Biology Project Summer Research Conference, Washington, DC. June 2012

**Cheruvelil, K.S.** Creating, using, and assessing student teams for biology labs. Poster presentation at the 34th Annual Association for Biology Laboratory Education conference, Chapel Hill, NC. June 2012.

Soranno, P.A., **K.S. Cheruvelil**, J.A. Downing, E.H. Stanley, N.R. Lottig, and P-N. Tan. The Effect of Cross-Scale Interactions (CSIs) on Freshwater Ecosystem State Across Space and Time. Poster presentation at the NSF-Macrosystems Biology PI Meeting, Boulder, CO. February, 2012.

Campa, R. III, **K.S. Cheruvelli**, D. Ebert-May, C. Fata-Hartley, K. Johnston, M. Urban-Lurain, *C. Vergara*. The FAST (Future Academic Scholars in Teaching) Fellowship Program: Engaging Doctoral Students with Assessment of Student Learning. Accepted poster presentation at the 2011 Center for the Integration of Research, Teaching, and Learning (CIRTL) Forum. Madison, WI. October 2011.

Fata-Hartley, C., *M.L. Jacques*, and **K.S. Cheruvelil**. Starting STEM Inclusivity Early: A Workshop to Increase Undergraduate Teaching Assistants' Diversity Awareness. Accepted poster presentation at the 2011 Center for the Integration of Research, Teaching, and Learning (CIRTL) Forum. Madison, WI. October 2011.

Smith, J.J., **K.S. Cheruvelil**, and *S. Auvenshine*. Tree-thinking approaches to teaching common ancestry: Incorporating molecular phylogenies. Poster presentation at the Society for the Study of Evolution. Norman, OK. June 2011.

*Xuemei, Y*. and **K.S. Cheruvelil**. Do college introductory biology courses increase ecological literacy? *Best Environmental Poster Award* at the University Undergraduate Research and Arts Forum, E Lansing, MI. April 2011.

*Xuemei, Y.* and **K.S. Cheruvelil**. Do college introductory biology courses increase ecological literacy? Poster presentation at the MSU 5th annual Lyman Briggs Undergraduate Research Symposium, E Lansing, MI. April 2011.

*Fergus, C.E.*, P.A. Soranno, **K.S. Cheruvelil**, and M.T. Bremigan. The effects of land use disturbance at local and regional scales on wetland effects on lake total phosphorus and water color. Oral presentation at the US-IALE 26th Annual Landscape Ecology Symposium, Portland OR. April, 2011.

**Cheruvelil, K.S.** and *J. Booker*. Local lake and regional landscape factors drive zooplankton communities. Oral presentation at the US-IALE 26th Annual Landscape Ecology Symposium, Portland OR. April, 2011.

*Zhang, T.*, P.A. Soranno , **K.S. Cheruvelil**, Kramer, D.B., Ligmann-Zielinska, A. and M.T. Bremigan*.* Evaluating the effects of upstream lakes and wetlands on lake phosphorus concentrations using a spatially-explicit model. Oral presentation at the US-IALE 26th Annual Landscape Ecology Symposium, Portland OR. April, 2011.

Soranno, P.A., *K.L. Droscha*, K.E. Webster, **K.S. Cheruvelil**, T. Wagner, M.T. Bremigan. The optimal spatial extent for quantifying catchment agriculture on lake nutrients using simple metrics. Oral Presentation at the US-IALE 26th Annual Landscape Ecology Symposium. Portland, Oregon. April, 2011.

**Cheruvelil, K.S.** and *J. Booker*. Local lake and regional landscape factors drive zooplankton communities. Oral presentation at the American Society of Limnology and Oceanography Aquatic Sciences Meeting. San Juan, Puerto Rico. February 2011.

*Norton, E.M.* and **K.S. Cheruvelil**. The effects of lake shoreline development on painted and northern map turtle populations. *Best Student Poster Award* at the Joint Meeting of the American Society of Limnology and Oceanography and the North American Benthological Society. Santa Fe, NM. June 2010.

*Booker, J.* and **K.S. Cheruvelil**. The Spatial Distribution of *Daphnia* Resources in Shallow Lakes: Is Food Quality for Zooplankton Determined by Aquatic Plants? Oral presentation at the Joint Meeting of the American Society of Limnology and Oceanography and the North American Benthological Society. Santa Fe, NM. June 2010.

*Auvenshine, S.J.*, D.B. Kramer, **K.S. Cheruvelil**. Effects of local environmental policy on Michigan’s inland lake water quality. Poster presentation at the Joint Meeting of the American Society of Limnology and Oceanography and the North American Benthological Society. Santa Fe, NM. June 2010.

Soranno, P.A., **K.S. Cheruvelil**, M.T. Bremigan, K.E. Webster, *C.E. Fergus*. Landscape limnology: Defining the freshwater landscape. Oral presentation at the Joint Meeting of the American Society of Limnology and Oceanography and the North American Benthological Society. Santa Fe, NM. June 2010.

**Cheruvelil, K.S.**, P.A. Soranno, M.T. Bremigan, K.E. Webster, T. Wagner, and C.A. Stow. Integrating freshwater, terrestrial, and human landscapes for ecological understanding and natural resource management and conservation. Oral presentation at the Joint Meeting of the American Society of Limnology and Oceanography and the North American Benthological Society. Santa Fe, NM. June 2010.

*Fergus, C.E.*, P.A. Soranno, **K.S. Cheruvelil**, and M.T. Bremigan. The effect of land use disturbance on wetland relationships with lake TP and water color. Oral presentation at the Joint Meeting of the American Society of Limnology and Oceanography and the North American Benthological Society. Santa Fe, NM. June 2010.

Bremigan, M.T., *B.M. Alger*, **K.S. Cheruvelil**, P.A. Soranno, and K.E. Webster. Quantifying the influence of terrestrial, freshwater, and human landscapes on fish assemblages in 360 north-temperate lakes. Oral presentation at the Joint Meeting of the American Society of Limnology and Oceanography and the North American Benthological Society. Santa Fe, NM. June 2010.

**Cheruvelil, K.S.** How do diverse base groups impact student learning and attitudes in Introductory Organismal Biology? Poster presentation at the Michigan State University Lilly Teaching Fellows Banquet. East Lansing, MI. April 2010.

Smith, J.J. and **K.S. Cheruvelil**. Using Inquiry and Tree-Thinking to "March Through the Animal Phyla: Does Working With Phylogenetic Trees Help Students Understand Biodiversity and Evolution? Poster presentation at the Michigan State University Scholarship of Teaching and Learning Symposium. East Lansing, MI. March 2010.

*Alwin, T.G., M. Fox*, and **K.S. Cheruvelil**. Determining appropriate sample and quadrat size to assess lake-wide watermilfoil weevil (*Euhrychiopsis lecontei*) density. Oral presentation to the North American Lake Management Society. Hartford, CT. October 2009.

**Cheruvelil, K.S.**, P.A. Soranno, K.E. Webster, M.T. Bremigan, T. Wagner, C.A. Stow. Freshwater Ecosystem Classification for Landscape-scale Management. Oral presentation at the 57th Annual Meeting of the North American Benthological Society. Grand Rapids, MI. May 2009.

*Alwin, T.G.* and **K.S. Cheruvelil**. Eurasian watermilfoil (*Myriophyllum spicatum*) and the watermilfoil weevil (*Euhryciopsis lecontei*) in three Michigan lakes: Investigating demography at the whole-lake scale. Oral presentation at the 57th Annual Meeting of the North American Benthological Society. Grand Rapids, MI. May 2009.

Smith, J.J. and **K.S. Cheruvelil**. Using Inquiry and Tree-Thinking to "March Through the Animal Phyla: Does Working With Phylogenetic Trees Help Students Understand Biodiversity and Evolution? Poster presentation at the American Society for Microbiology 16th Annual Conference for Undergraduate Educators. Fort Collins, CO. May 2009

Wagner, T., P.A. Soranno, M.T. Bremigan, **K.S. Cheruvelil**, K.E Webster and C. Stow. Classification of Freshwater Landscapes for Multi-Ecosystem Management. Oral presentation at the 65th Annual Northeast Fish and Wildlife Conference. Lancaster, PA. April 2009.

*Norton, E.M.*, **K.S. Cheruvelil**, D.B. Kramer. What do natural features have to do with property values? A hedonic valuation study of Michigan Lakes. Oral presentation to the North American Lake Management Society. Lake Louise, Alberta, CA. November 2008.

*Martin, S.L.*, P.A. Soranno, M.T. Bremigan, and **K.S. Cheruvelil**. Lake classifications: comparison of approaches and implications for lake management. Fisheries Division, Michigan Department of Natural Resources, Annual Meeting of Research Section. Higgins Lake, MI. October 2008.

*Alger, B.M*., M.T. Bremigan, **K.S Cheruvelil**, P.A Soranno, and K.E Webster. Natural and anthropogenic disturbance gradients in lakes: How have fish assemblages been altered? Annual meeting of the American Fisheries Society, Ottawa, Ontario, Canada. August 2008.

Bremigan, M.T., **K.S. Cheruvelil**, P.A. Soranno, K.E. Webster, *B. Alger*, and T. Wagner. Landscape scale management for lakes: connecting lake landscapes to water chemistry and fishes. Annual meeting of the American Fisheries Society, Ottawa, Ontario, Canada. August 2008.

**Cheruvelil, K.S.**, P.A. Soranno, M.T. Bremigan, and K.E. Webster. The role of regionalization for national lake classification and assessment. Annual meeting of the Ecological Society of America, Milwaukee, WI. August 2008.

Soranno, P.A., **K.S. Cheruvelil**, K.E. Webster, M.T. Bremigan, and T. Wagner. Quantifying landscape effects on lake TP: Spatial scale and connectivity. Oral presentation to the Ecological Society of America. Milwaukee, WI. August 2008.

*Alwin, T.* and **K.S. Cheruvelil**. A quantitative sampling program for lake-wide watermilfoil weevil density. Poster presentation to the Midwest Fisheries and Wildlife Society. Madison, WI. December 2007.

Smith, J. and **K.S. Cheruvelil**. Using Inquiry and Tree-Thinking to “March Through the Phyla,” Oral Presentation to the National Association of Biology Teachers, Atlanta, GA, November 2007.

Smith, J. and **K.S. Cheruvelil**. Using Inquiry and Tree-thinking to March Through the Phyla: The incorporation of inquiry and tree-thinking into the study of the basic biology of different animal groups in Introductory Organismal Biology. Oral presentation at the MSU Center for Research in College Science Teaching and Learning, East Lansing, MI, October 2007.

Webster, K.E., P.A. Soranno, **K.S. Cheruvelil**, M.T. Bremigan, J.A. Downing, P. Vaux, T. Asplund, L.C. Bacon, and J. Connor. Applying the nutrient-color trophic paradigm to 1600 north temperate lakes. Oral presentation to the 30th Congress of the International Association of Theoretical and Applied Limnology. Montreal, Canada. August 2007.

Soranno, P.A., K.E. Webster, **K.S. Cheruvelil** and M.T. Bremigan. The lake landscape-context paradigm: Linking hydrogeomorphology and human disturbance across scales. Oral presentation to the 30th Congress of the International Association of Theoretical and Applied Limnology. Montreal, Canada. August 2007.

*Martin, S.L*., P.A. Soranno, **K.S. Cheruvelil** and M.T. Bremigan. A comparison of landscape-based lake classifications for understanding variation in lake water chemistry. Poster presentation receiving “Best Poster” award at the 2nd Annual MSU Fisheries and Wildlife Graduate Research Symposium. E. Lansing, MI. February 2007.

Soranno, P.A., M.T. Bremigan, and **K.S. Cheruvelil**. MSU Landscape Limnology Group: Research connections. Oral presentation given at the MSU Center for Water Sciences faculty and student mixer. E. Lansing, MI. February 2007.

Soranno, P.A., **K.S. Cheruvelil**, R.J. Stevenson, S. Rollins, S.W. Holden, S. Heaton and E. Torng. Developing lake-specific nutrient criteria: integrating predictive modeling with biological response gradients. Oral presentation to the North American Lake Management Society. Indianapolis, Indiana. November 2006.

**Cheruvelil, K.S.**, P.A. Soranno, M.T. Bremigan, K.E. Webster. The roles of regionalization and spatial scale for national lake classification and assessment. Oral presentation to the American Society of Limnology and Oceanography. Victoria, British Columbia, June 2006.

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