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Last updated: October 3, 2019

EDUCATION

Michigan State University, East Lansing, MI.

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. May 1997.

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

PROFESSIONAL POSITIONS

Professor/Associate Professor/Assistant Professor, Lyman Briggs College/ Department Fisheries and Wildlife, Michigan State University. 2006 – present.

Affiliated Faculty: Ecology, Evolutionary Biology, and Behavior Program.

Affiliated Faculty: Environmental Science and Policy Program.

Associate Dean for Research and Faculty Affairs, Lyman Briggs College, Michigan State University. August 2017 – May 2019.

Faculty Excellence Advocate, Lyman Briggs College, Michigan State University. August 2017 – August 2018.

Founding Director, Michigan State University (MSU) Lyman Briggs College Graduate Fellowship Program in the Scholarship of Undergraduate Teaching and Learning. April 2016 – August 2018.

Visiting Research Fellow, School of Geography, Archeology, and Paleoecology, Queen's University Belfast, Northern Ireland, UK. 2013 – 2014.

Visiting Assistant Professor, Departments of Zoology/ Fisheries and Wildlife, MSU. 2005 – 2006.

Assistant Professor, Biology/Chemistry Section. Purdue University North Central. 2004 – 2005.

LEADERSHIP DEVELOPMENT

Big Ten Academic Alliance Academic Leadership Program. Intensive, cohort-based, year-long experience to develop the leadership and managerial skills of faculty. 2018 – 2019.

HERS Executive Leadership Institute and LUCE Program. Comprehensive 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. June 2017.

Exploring Academic Leadership, MSU Academic Advancement Network Leadership Learning Community. 2015 – 2017.

Women Evolving Biological Sciences (WEBS). NSF-funded early-career leadership program focused on developing successful academic careers. October 19-22, 2008.

HONORS & AWARDS

Fellow, Association for the Sciences of Limnology and Oceanography (ASLO). ASLO Fellows are recognized as having achieved excellence in their contributions to ASLO and the aquatic sciences (<https://msutoday.msu.edu/news/2019/msu-researchers-named-fellows-of-the-association-for-the-sciences-of-limnology-and-oceanography/>). 2018.

Research Exemplar, Professionalism and Integrity in Research Program (<http://integrityprogram.org/exemplar-project/>). 2017.

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

FUNDED RESEARCH GRANTS

Currently Funded

- National Science Foundation, Macrosystems Biology Program, Biology Directorate, Emerging Frontiers Division. \$35,208 supplement to: *Collaborative Proposal: MSB-FRA: A macrosystems framework for continental-scale prediction and understanding of lakes*. PIs: K.S. Cheruvilil (Lead 2019-2021), P.A. Soranno (Lead 2018-2019), J. Zhou, P.-N. Tan. 2018 – 2021.
- National Science Foundation Macrosystems Biology Program. *Collaborative Proposal: MSB-FRA: A macrosystems framework for continental-scale prediction and understanding of lakes*. ~\$4.2 mil (~\$2.1 mil to MSU). PIs: K.S. Cheruvilil (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 – October 2021.
- 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. Elliot (Lead), K. Cheruvilil, G. Montgomery, I. Settles, P. Soranno. September 2014 – August 2020 (final year no-cost extension).

Pending

- National Science Foundation Education and Human Resources Core Research Program. *Collaborative Research: ECR EIE DCL: Broadening Participation of Underrepresented Scholars in Academic STEM: The Influence of an Inclusive Climate on Early-Career Outcomes* ~\$2.5 mil (~\$1 mil to MSU). PIs: K.S. Cheruvilil (Lead), K. Elliot & G. Montgomery (MSU); I. Settles (lead) & E. Cech (UM). July 2020 – June 2025. Submitted 10/3/19.

Previously Funded – External

- 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. Cheruvilil, P.-N. Tan (MSU); E. Stanley, N. Lottig (UW); J. Downing (ISU). May 2011 – May 2017 (final year no-cost extension).
- National Science Foundation Geography and Spatial Sciences Program. \$144,082. *A Spatiotemporal 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. Cheruvilil 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. Cheruvilil, 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. Cheruvilil (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. Cheruvilil (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. Cheruvilil 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. Cheruvilil 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. Spence Cheruvilil, M. Bremigan, K. Webster. 2005 – 2006.
- National Park Service: *Water Resources Assessment of the Indiana Dunes National Lakeshore*. \$72,655. PIs: K. Cheruvilil (Lead), E. Rosi-Marshall, J. Tank, P. Soranno. 2005 – 2006.

Previously Funded – Michigan State University

- Science & Society @ State. *Innovations in Science Communication and Engagement: Exploring How Better Training Can Improve Outcomes for Science and Society*, \$10,000. PIs: Jo Lattimore (lead), Erin Dreelin, Jordan Burroughs, Sue Nichols, Megan Halpern, Kendra Cheruvilil. March 2016 – June 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. Cheruvilil. May 2015 – May 2017.
- Science & Society @ State. \$10,000. *Conceptions of good science in a data-rich world*. PIs: P. Soranno (Lead), K. Cheruvilil, 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. Cheruvilil, 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. Cheruvilil (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. Cheruvilil. 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. Cheruvilil, 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. Cheruvilil. 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. Cheruvilil, 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. Cheruvilil. 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. Cheruvilil and Orlando Sarnelle (Co-Leads). 2008 – 2009.
- Center for Water Sciences: *Mapping Michigan's Regulatory Infrastructure for Inland Lake Management*. \$10,000. K. Cheruvilil and D. Kramer (Co-Leads). 2007 – 2008.

PEER-REVIEWED PUBLICATIONS (Primary/lead author first, students/post-docs italicized, KSC bolded)

65. *McCullough, I., K. King, J. Stachelek, J. Diaz, P.A. Soranno, and K.S. Cheruvilil. In press. Applying the patch-matrix model to lakes: a connectivity-based conservation framework. Accepted by Landscape Ecology 9/25/19.*
64. *McCullough, I., N.K. Skaff, P.A. Soranno, and K.S. Cheruvilil. In press. No lake left behind: How well do US protected areas meet lake conservation targets?" Accepted for publication in Limnology and Oceanography Letters 9/15/19.*
63. *Poisson, A., I. McCullough, P. Soranno, K. Cheruvilil, K. Elliott, and J. Latimore. In press. Quantifying contributions of citizen monitoring to broad-scale ecological databases. Accepted by Frontiers in Ecology and the Environment. 5/31/19.*
62. **Cheruvilil, K.S., A. De Palma-Dow, and K. Smith. In press. Strategies to promote effective student research teams in undergraduate biology labs. American Biology Teacher. Accepted 4/23/19. January 2020 issue.**
61. *King, K., K.S. Cheruvilil, and A. Pollard. 2019. Drivers and spatial structure of abiotic and biotic properties of lakes, wetlands, and streams at the national scale. Ecological Applications 29(7): e01957. <https://doi.org/10.1002/eap.1957>.*
60. *Settles, I.H., S.T. Brassel, P.A. Soranno, K.S. Cheruvilil, G.M. Montgomery, and Elliott, K.C. 2019. Team climate mediates the effect of diversity on environmental science team satisfaction and data sharing. PlosOne 14(7): e0219196. <https://doi.org/10.1371/journal.pone.0219196>*
59. *McCullough, I., K.S. Cheruvilil, J.-F. Lapierre, N. Lottig, M. Moritz, J. Stachelek, and P.A. Soranno. 2019. Do lakes feel the burn? Increasing exposure of lake ecosystems to fire in the continental United States. Global Change Biology 25: 2841-2854. <https://doi.org/10.1111/gcb.14732>.*
58. *Collins, S., S. Yuan, P.-N. Tan, S. Oliver, J.-F. Lapierre, K.S. Cheruvilil, C.E. Fergus, N. Skaff, J. Stachelek, T. Wagner, and P.A. Soranno. 2019. Winter precipitation and summer temperature predict lake ecosystem properties at macroscales. Water Resources Research 55: 2708-2721. <https://doi.org/10.1029/2018WR023088>.*
57. *Stanley, E., S. Collins, N. Lottig, S. Oliver, K. Webster, K.S. Cheruvilil, and P.A. Soranno. 2019. Biases in lake water quality data and implications for macroscale research. Limnology and Oceanography 64: 1572-1585. <https://doi.org/10.1002/lno.11136>.*
56. *McCullough, I., K.S. Cheruvilil, S. Collins, P.A. Soranno. 2019. Geographic patterns of the climate sensitivity of lakes. Ecological Applications 29(2): e01836. <https://doi.org/10.1002/eap.1836>.*
55. *De Palma-Dow, A. and K.S. Cheruvilil. 2019. The relative roles of dispersal and establishment for shaping whole-lake aquatic macrophyte richness, diversity, and community structure in hemiboreal lakes. Inland Waters 9: 35–48. <https://doi.org/10.1080/20442041.2018.1522224>.*
54. **Cheruvilil, K.S. and P.A. Soranno. 2018. Data-intensive ecological research is catalyzed by open science and team science. BioScience 68(10): 813-822. <https://doi.org/10.1093/biosci/biy097>. *Editor's Choice Paper; September 12, 2018 Podcast: <http://bioscienceaibs.libsyn.com/the-big-data-and-team-open-science-synergy>. Attention Score of 34 = In the top 5% of all research outputs scored by Altmetric as of September 2019.***
53. *Lapierre, J.-F., S. Collins, D. Seekell, K.S. Cheruvilil, P.-N. Tan, N. Skaff, Z. Taranu, C.E. Fergus, P.A. Soranno. 2018. Similarity in spatial structure constrains ecosystem relationships: Building a macroscale understanding of lakes. Global Ecology and Biogeography 27: 1251-1263. DOI: 10.1111/geb.12781.*
52. *Settles, I.H., S.T. Brassel, G.M. Montgomery, K.C. Elliott, P.A. Soranno, K.S. Cheruvilil. 2018. Missing the mark: A new form of honorary authorship motivated by desires for inclusion. Innovative Higher Education 43: 303-319. <https://doi.org/10.1007/s10755-018-9429-z>*
51. *Oliver, S., C.E. Fergus, N. Skaff, T. Wagner, P.-N. Tan, K.S. Cheruvilil, P.A. Soranno. 2018. Strategies for effective collaborative manuscript development in interdisciplinary science teams. Ecosphere 9(4):e02206. <https://doi.org/10.1002/ecs2.2206>. Attention Score of 33 = In the top 5% of all research outputs scored by Altmetric as of September 2019.*
50. *Seekell, D., J.-F. Lapierre, K.S. Cheruvilil. 2018. The geography of lake carbon cycling. Limnology & Oceanography Letters 3: 49-56. DOI 10.1002/lol2.10078.*

49. Lottig, N., P.-N. Tan, T. Wagner, **K.S. Cheruvilil**, P.A. Soranno, E. Stanley, C. Scott, C. Stow, S. Yuan. 2017. Macroscale patterns of synchrony identify complex relationships among spatial and temporal ecosystem drivers. *Ecosphere* 8(12):e02024. DOI 10.1002/ecs2.2024.
48. Skaff, N.K., P.M. Armstrong, T.G. Andreadis, **K.S. Cheruvilil**. 2017. Wetland characteristics linked to broad-scale patterns in *Cs. melanura* abundance and Eastern equine encephalitis virus infection. *Parasites & Vectors* 10: 501. DOI 10.1186/s13071-017-2482-0.
47. Soranno, P.A., L.C. Bacon, M. Beauchene, K.E. Bednar, E.G. Bissell, C.K. Boudreau, M.G. Boyer, M.T. Bremigan, S.R. Carpenter, J.W. Carr, **K.S. Cheruvilil**, S.T. Christel, M. Clauncherty, S.M. Collins, J.D. Conroy, J. Dukett, J.A. Downing, C.E. Fergus; C.T. Filstrup, C.S. Funk, M.J. Gonzalez, L.T. Green, C. Gries, J.D. Halfman, S.K. Hamilton, P.C. Hanson, E.N. Henry, E.M. Herron, C. Hockings, J.R. Jackson, K. Jacobson-Hedin, L.L. Janus, W.W. Jones, J.R. Jones, C.M. Keson, K.B.S. King, S.A. Kishbaugh, J.-F. Lapierre, B.F. Lathrop, J.A. Latimore, Y. Lee, N.R. Lottig, J.A. Lynch, L.J. Matthews, B.H. McDowell, K.E.B. Moore, B.P. Neff, S.J. Nelson, S.K. Oliver, M.L. Pace, D.C. Pierson, A.C. Poisson, A.I. Pollard, D.M. Post, P.O. Reyes, D.O. Rosenberry, K.M. Roy, L.G. Rudstam, O. Sarnelle, N.J. Schuldt, C.E. Scott, N.K. Skaff, N.J. Smith, N.R. Spinelli, J.J. Stachelek, E.H. Stanley, J.L. Stoddard, S.B. Stopyak, C.A. Stow, J.M. Tallant, P.-N. Tan, T.P. Thorpe, T. Wagner, M.J. Vanni, G. Watkins, K.C. Weathers, K.E. Webster, J.D. White, M.K. Wilmes, S. Yuan. 2017. LAGOS-NE: A multi-scaled geospatial and temporal database of lake ecological context and water quality for thousands of U.S. lakes. *GigaScience*. gix101, <https://doi.org/10.1093/gigascience/gix101>.
46. Fergus, C.E., J.-F. Lapierre, S.K. Oliver, N.K. Skaff, **K.S. Cheruvilil**, P.A. Soranno, K.E. Webster, C. Scott. 2017. The freshwater landscape: Lake, wetland, and stream abundance and connectivity at macroscales. *Ecosphere* 8(8): 1-23. DOI: 10.1002/ecs2.1911.
45. Lapierre, J.- F., D. Seekell, C. Filstrup, S. Collins, C.E. Fergus, P.A. Soranno, and **K.S. Cheruvilil**. 2017. Continental-scale variation in controls of summer CO₂ in United States lakes. *Journal of Geophysical Research – Biogeosciences* 122: 875-885. **Editor's Choice Cover Photo:** <http://agupubs.onlinelibrary.wiley.com/hub/issue/10.1002/jgrg.v122.4/>.
44. Yuan, S., P.-N. Tan, **K.S. Cheruvilil**, C.E. Fergus, N.K. Skaff, and P.A. Soranno. 2017. Learning hash-based features for incomplete continuous-valued data. *Proceedings of the 2017 SIAM International Conference on Data Mining*. Houston, Texas, April 27-29, 2017. DOI: 10.1137/1.9781611974973.76.
43. **Cheruvilil, 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. 2017. Creating multithemed ecological regions for macrosystems ecology: Testing a flexible, repeatable, and accessible clustering method. *Ecology and Evolution* 7: 3046–3058. DOI: 10.1002/ece3.2884.
42. Elliott, K.C., I.H. Settles, G.M. Montgomery, S.T. Brasell, **K.S. Cheruvilil** and P.A. Soranno. 2017. Honorary authorship practices in environmental science teams: Structural and cultural factors and solutions. *Accountability in Research* 24(2): 80-98. <https://doi.org/10.1080/08989621.2016.1251320>.
41. Elliott, K.C., **K.S. Cheruvilil**, G.M. Montgomery, and Soranno, P.A. 2016. Conceptions of good science in our data-rich world. *BioScience* 66(10): 880-889. <https://doi.org/10.1093/biosci/biw115> **Editor's Choice Paper; October 13, 2016 Podcast:** <http://bioscienceaibs.libsyn.com/episode-17-big-data-and-good-science>. **Attention Score of 40 = In the top 5% of all research outputs scored by Altmetric as of September 2019.**
40. Wagner, T., C.E. Fergus, C. Stow, **K.S. Cheruvilil** and P.A. Soranno. 2016. The statistical power to detect cross-scale interactions at macroscales. *Ecosphere* 7(7): e01417. DOI 10.1002/ecs2.1417.
39. Skaff, N.K., **K.S. Cheruvilil**. 2016. Fine-scale wetland features mediate vector and climate-dependent macroscale patterns in human West Nile virus incidence. *Landscape Ecology* 31(7): 1615-1628. DOI 10.1007/s10980-016-0346-1.
38. Yuan, S., P.-N. Tan, **K.S. Cheruvilil**, S.M. Collins, and P.A. Soranno. 2015. Constrained Spectral Clustering for Regionalization: Exploring the Trade-off between Spatial Contiguity and Landscape Homogeneity. *Proceedings of the IEEE International Conference on Data Science and Advanced Analytics (DSAA)*. Paris, France, Oct 19-21, 2015. DOI: 10.1109/DSAA.2015.7344878.
37. Soranno, P.A., **Cheruvilil K.S.**, T. Wagner K.E. Webster, and M.T. Bremigan. 2015. Effects of land use on lake nutrients: The importance of scale, hydrologic connectivity, and region. *PLoS ONE* 10(8): e0135454.

36. Soranno, P.A., E.G. Bissell, **K.S. Cheruvilil**, S.T. Christel, 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.T. 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. 2015. Building a multi-scaled geospatial temporal ecology database from disparate data sources: Fostering open science and data reuse. *GigaScience* 4: 28. DOI:10.1186/s13742-015-0067-4. **Attention Score of 27 = 58th percentile for outputs of the same age and source as of June 2016.**
35. Soranno, P.A., **K.S. Cheruvilil**, K.C. Elliott, and G.M. Montgomery. 2015. It's good to share: Why environmental scientists' ethics are out of date. *BioScience* 65: 69-73. <https://doi.org/10.1093/biosci/biu169> **Attention Score of 161 = Among the highest-scoring outputs from this source (#33 of 2,238) as of September 2019.**
34. Ligmann-Zielinska, A., D.B. Kramer, **K.S. Cheruvilil**, and P.A. Soranno. 2014. Using uncertainty and sensitivity analyses in socioecological agent-based models to improve their analytical performance and policy relevance. *PlosONE* 9(10): e109779. DOI: 10.1371/journal.pone.0109779.
33. Ligmann-Zielinska, A., W. Liu, D.B. Kramer, **K.S. Cheruvilil**, P.A. Soranno, P. Jankowski, and S. Salap. 2014. Multiscale spatial sensitivity analysis for agent-based modelling of coupled landscape and aquatic systems. Proceedings of the 7th Intl. Congress on Environmental Modelling and Software, San Diego, CA, USA, June 15-19, 2014, Daniel P. Ames, Nigel W.T. Quinn and Andrea E. Rizzoli (Eds.) <http://www.iemss.org/society/index.php/iemss-2014-proceedings>.
32. Lottig, N.R., T. Wagner, E. Norton Henry, **K.S. Cheruvilil**, K.E. Webster, J.A. Downing, and C.A. Stow. 2014. Long-term citizen-collected data reveal geographical patterns and temporal trends in lake water clarity. *PLosONE* 9(4): e95769. doi:10.1371/journal.pone.0095769.
31. **Cheruvilil, K.S.**, P.A. Soranno, K.C. Weathers, P.C. Hanson, S. Goring, C.T. Filstrup, and E.K. Read. 2014. Creating and maintaining high-performing collaborative research teams: the importance of diversity and interpersonal skills. *Frontiers in Ecology and the Environment* 12: 31-38. <https://doi.org/10.1890/130001>. **Attention Score of 107 = In the top 5% of all research outputs scored by Altmetric as of September 2019.**
30. Soranno, P.A., **K.S. Cheruvilil**, E. Bissell, M. Tate Bremigan, J.A. Downing, C.E. Fergus, C. Filstrup, N.R. Lottig, E.N. Henry, E.H. Stanley, C.A. Stow, P.-N. Tan, T. Wagner, K.E. Webster. 2014. Cross-scale interactions: Quantifying multi-scaled cause-effect relationships in macrosystems. *Frontiers in Ecology and the Environment* 12: 59-64. **Attention Score of 9 = 85th percentile for outputs of the same age and source as of June 2016.**
29. Goring, S., K. Weathers, W.K. Dodds, P.A. Soranno, L. Sweet, **K.S. Cheruvilil**, J. Kominoski, J. Ruegg, A. Thorn, R. Utz. 2014. Improving the culture of interdisciplinary collaboration in ecology by expanding measures of success. *Frontiers in Ecology and the Environment* 12: 39-47. <https://doi.org/10.1890/120370>. **Attention Score of 48 = In the top 5% of all research outputs scored by Altmetric as of September 2019.**
28. Levy, O., B.A. Ball, B. Bond-Lamberty, **K.S. Cheruvilil**, 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. Tchong, M. Toomey, R. Vargas, J.W. Voordeckers, T. Wagner, J.W. Williams. 2014. Approaches for advancing scientific understanding of macrosystems. *Frontiers in Ecology and the Environment* 12: 15-23. **Attention Score of 22 as of June 2016.**
27. Vergara, C.E., H. Campa, III, **K.S. Cheruvilil**, D. Ebert-May, C. Fata-Hartley, K. Johnston, M. Urban-Lurain. 2014. FAST-Future Academic Scholars in Teaching: A High-Engagement Development Program for Future STEM Faculty. *Journal of Innovative Higher Education* 39: 93-107.
26. **Cheruvilil, K.S.**, P.A. Soranno, K.E. Webster and M.T. Bremigan. 2013. The multi-scaled drivers of ecosystem state: Quantifying the importance of the regional spatial scale. *Ecological Applications* 23: 1603-1618. **Attention Score of 9 = 88th percentile for outputs of the same age and source as of June 2016.**
25. Kramer, D.B., T. Zhang, **K.S. Cheruvilil**, A. Ligmann-Zielinska, P.A. Soranno. 2013. A multi-objective, return on investment analysis for freshwater conservation planning. *Ecosystems* 16(5): 823-837.
24. Smith, J.J., **K.S. Cheruvilil**, and S. Auvenshine. 2013. Assessment of Student Learning Associated with Tree Thinking in an Undergraduate Introductory Organismal Biology Course. *CBE-Life Sciences Education* 12: 542-552.

23. **Cheruvilil, K.S.** and X. Ye. 2012. Do college introductory biology courses increase student ecological literacy? *Journal of College Science Teaching* 42(2): 26-32.
22. Zhang, T., P.A. Soranno, **K.S. Cheruvilil**, Kramer, D.B., Ligmann-Zielinska, A. and M.T. Bremigan. 2012. Evaluating the effects of upstream lakes and wetlands on lake phosphorus concentrations using a spatially-explicit model. *Landscape Ecology* 27(7): 1015-1030.
21. Fergus, C.E., P.A. Soranno, **K.S. Cheruvilil**, and M.T. Bremigan. 2011. Multi-scale landscape and wetland drivers of lake total phosphorus and water color. *Limnology & Oceanography* 56(6): 2127-2146.
20. Martin, S.L., P.A. Soranno, M.T. Bremigan, **K.S. Cheruvilil**. 2011. Comparing hydrogeomorphic approaches to lake classification. *Environmental Management*. 48: 957-974.
19. Booker, J. and **K.S. Cheruvilil**. 2011. Are zooplankton food resources poorer in the vegetated littoral zone of shallow lakes? *Freshwater Biology*. 56(12): 2459–2472.
18. Wagner, T., **K.S. Cheruvilil**, P.A. Soranno, and K.E. Webster. 2011. Landscape drivers of regional variation in the relationship between total phosphorus and chlorophyll in lakes. *Freshwater Biology*. 56: 1811-1824.
17. Alwin, T.G., M. Fox and **K.S. Cheruvilil**. 2010. Estimating lake-wide watermilfoil weevil (*Euhrychiopsis lecontei*) density: The roles of quadrat size, sample size, and effort. *Journal of Aquatic Plant Management* 48(2): 96-101.
16. Soranno, P.A., **K.S. Cheruvilil**, K.E. Webster, M.T. Bremigan, T. Wagner and C. Stow. 2010. Using landscape limnology to classify freshwater ecosystems for multi-ecosystem management and conservation. *BioScience* 60(6): 440-454.
15. Soranno, P.A., K.E. Webster, **K.S. Cheruvilil** and M.T. Bremigan. 2009. The lake landscape-context framework: linking aquatic connections, terrestrial features and human effects at multiple spatial scales. *Verh. Internat. Verein. Limnol.* 30(5): 695-700.
14. Smith, J.J. and **K.S. Cheruvilil**. 2009. Using Inquiry and Tree-Thinking to "March Through the Animal Phyla": Teaching Introductory Comparative Biology in an Evolutionary Context. *Evolution Education and Outreach* 2: 429-444.
13. **Cheruvilil, K.S.** and P.A. Soranno. 2008. Relationships between lake macrophyte cover and lake and landscape features. *Aquatic Botany* 88(3): 219-227.
12. **Cheruvilil, K.S.**, P.A. Soranno, M.T. Bremigan, T. Wagner and S.L. Martin. 2008. Grouping lakes for water quality assessment and monitoring: The roles of regionalization and spatial scale. *Environmental Management* 41(3): 425-440.
11. Soranno, P.A., **K.S. Cheruvilil**, 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. Cheruvilil**, 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. Cheruvilil**, 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. Cheruvilil**, 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. Cheruvilil** and P.A. Soranno. 2006. Satellite remote sensing of freshwater macrophytes and the influence of water clarity. *Aquatic Botany*. 85(4): 289-298.
6. **Cheruvilil, 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. Cheruvilil**, 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. Cheruvilil**, 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. **Cheruvilil, 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. **Cheruvilil, 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. **Cheruvilil, 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.

NON-PEER REVIEWED PUBLICATIONS (Primary/lead author first, students/post-docs italicized, KSC bolded)

Book Chapters, Proceedings Articles, and Bulletin Articles

- Cheruvilil, K.S.** 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.
- McCullough, I.*, **K.S. Cheruvilil**, *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. Cheruvilil**, 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>

Datasets, Code, and Team Science Resources

- Cheruvilil, 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://www.onlineethics.org/Resources/ethics-and-team-power-dynamics.aspx>.
- Soranno, P.A. and **K.S. Cheruvilil**. 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. Cheruvilil**. 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/b1b93ccf3354a7471b93eccc484d506>.
- Soranno, P.A. and **K.S. Cheruvilil**. 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. Cheruvilil** 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/940b25d022c695b440e1bdbc49fb77b>.
- Cheruvilil, 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>.
- Cheruvilil, 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. Cheruvilil**, 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. Cheruvilil**, 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/e69b7495674e403baa19a22ffbf40e1>.

- Cheruvilil, 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>.
- Cheruvilil, 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. Cheruvilil**, 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*. PLoS ONE. Dryad Digital Repository. <http://dx.doi.org/10.5061/dryad.58445>
- Lottig, N., T. Wagner, E. Henry, **K.S. Cheruvilil**, 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*. PLoS ONE. Long Term Ecological Research Network. <http://dx.doi.org/10.6073/pasta/5f94d3db0f3b7f1648579bf319aefacc>
- Cheruvilil 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>
- Fergus C.E., P.A. Soranno, **K.S. Cheruvilil**, 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>
- Soranno P.A., **K.S. Cheruvilil**, 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>

Technical Reports and Extension Publications

- Cheruvilil, 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. Cheruvilil**. Biological Control of Eurasian Watermilfoil: A Review of the Native Watermilfoil Weevil. Michigan State University Extension Bulletin WQ – 61, June 2009.
- Cheruvilil, 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.
- Cheruvilil, K.S.** The value of Michigan's lakes and streams. Technical report to the MI-DEQ, March 2006.
- Soranno, P.A., **K. Spence Cheruvilil**, R.J. Stevenson, and S. Rollins. Lake nutrient criteria: Identifying benchmark conditions for nutrient criteria development. Technical Report to the MI-DEQ. November 2005.

INVITED PLENARIES, PRESENTATIONS, & PANELS (Presenter listed first, students/post-docs italicized, KSC bolded; See page 18 for contributed presentations)

- K.S. Cheruvilil**. Viewing shallow lakes from a landscape perspective. Forthcoming plenary address at the 10th International Shallow Lakes Conference. Natal City, Brazil, 21-26 June 2020.
- G. Hubbs, K. Hall, A. Vogel, L. Biomen, **K. Cheruvilil**, and P. Soranno Panelist. Collaborative Scientific Writing: Challenges and Strategies. Invited panelist at the 2019 Science of Team Science (SciTS) Conference, Lansing, MI. May 20-23, 2019.
- K. King, A. Pollard, and **K.S. Cheruvilil**. 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. Cheruvilil.** 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. Cheruvilil.** 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. Cheruvilil.** 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. Cheruvilil.** 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. Cheruvilil.** 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. Cheruvilil.** 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. Cheruvilil, 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. Cheruvilil.** 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.
- K.S. Cheruvilil.** Landscape limnology: Understanding lakes at regional to continental scales. Plenary address at the 8th International Shallow Lakes Conference. Antalya, Turkey, October 2014.
- K.S. Cheruvilil.** 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. Cheruvilil.** 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. Cheruvilil.** 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. Cheruvilil.** 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. Cheruvilil.** Landscape approaches for understanding and managing lakes. Oral presentation to the Scottish Freshwater Group, Stirling, Scotland, October 2013.
- Soranno, P.A., **K.S. Cheruvilil**, 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. Cheruvilil**, 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. Cheruvilil, 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. Cheruvilil, 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. Tchong, 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.

- K.S. Cheruvilil.** 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. Cheruvilil.* 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. Cheruvilil, 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. Cheruvilil**, 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. Cheruvilil**, 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. Cheruvilil.* Eurasian watermilfoil control with biota. Presentation to the Michigan Lakes and Streams Association. East Lansing, Michigan. September 2008.
- Bremigan, M.T., **K.S. Cheruvilil**, 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. Cheruvilil**, 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.
- Cheruvilil, 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.
- Cheruvilil, 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.
- Cheruvilil, 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.
- Cheruvilil, 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.

TEACHING & MENTORING

- Courses Taught** (UG = undergraduate, GRAD = graduate, CH = credit hours, # = average student enrollment)
Principles and Perspectives in Fisheries and Wildlife (FW894; GRAD seminar: 2 CH, 20). Fall 2019. Michigan State University (MSU).
Introductory Organismal Biology (LB144; UG lecture/laboratory: 4 CH, 120). Fall 2006, Spring 2008, Fall 2009, Spring 2010, Fall 2011, Spring 2012, Fall 2015, Spring 2020. MSU.
Landscape Ecology (FW840; GRAD lecture/laboratory: 3 CH, 15). Fall 2010, Spring 2015, Spring 2017. MSU.
Vaccines at the Intersection of Science and Society (LB492; UG interdisciplinary senior capstone: 4 CH, 15). Fall 2008, Summer 2011, Fall 2014, MSU.

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

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

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

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

Biology for Elementary School Teachers I (BIOL 205; UG lecture/laboratory: 3 CH, 60). Fall 2004. Purdue University North Central (PNC).

Biology for Elementary School Teachers II (BIOL 206; UG lecture/laboratory course: 3 CH, 60). Spring 2005. PNC.

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

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

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

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

Cheruvilil, J.J. and **K.S. Cheruvilil**, *Fostering Inclusive Environments*, North Central Region Volunteer Specialist – Spring Meeting, East Lansing, MI. April 2019.

Cheruvilil, K.S. *Navigating Team Power Dynamics in Authorship Decisions*. Graduate student workshop in FW893: Writing Productivity. MSU. East Lansing, MI. March 2019.

Cheruvilil, K.S. *Diversity Statements*, Workshop for the MSU Graduate Teaching Fellows, February 2018.

Cheruvilil, K.S. *Creating Inclusive Learning Environments*, Workshop for the MSU Graduate Teaching Fellows, January 2018.

Cheruvilil, K.S. *Building the skills for creating & maintaining high-performing collaborative teams*, Webinar for the Michigan State University Extension Sea Grant Team, November 2017.

Cheruvilil, K.S. *Strategies for effective creation, implementation, & assessment of student teams*, Workshop for the Foundations of Engineering Education Class (EGR811), November 2017.

Cheruvilil, K.S. and Melissa McDaniels. *Optimizing Mentoring Relationships* LBC, Workshop for the MSU Lyman Briggs College, March 2017.

Cheruvilil, K.S. *Creating Inclusive Learning Environments*, Workshop for the MSU CIRTLL FAST Fellows, November 2016.

Cheruvilil, K.S. *Strategies for Effective Creation, Implementation, and Assessment of Student Teams*, Workshop for STEM Teaching Essentials, October 2016.

Cheruvilil, K.S. *Creating Inclusive Learning Environments*, LBC Graduate Teaching and Undergraduate Learning Assistant Training, August 2010, August 2012, August 2014, August 2015, August 2017.

Cheruvilil, K.S. *Creating Inclusive Learning Environments*, Workshop for the MSU CIRTLL FAST Fellows, December 2014.

Cheruvilil, K.S. *Building, Training, and Assessing Student Teams*, Workshop for the MSU Teaching Assistant Program, April 2013.

Cheruvilil, K.S. and C. Fata-Hartley. *What's the Climate in Your Classroom? Strategies for Creating Inclusive Learning Environments in STEM Courses*, MSU Lilly Seminar, March 2013.

Cheruvilil, K.S. *Promoting Effective Cooperative Learning*, Workshop for the University of Dohuk Faculty, March 2013.

Cheruvilil, K.S. *Promoting Effective Student Teams*, Workshop for the University of Dohuk Faculty, April 2012.

Fata-Hartley, C. and **K.S. Cheruvilil**. *Creating Effective Learning Communities* [including *Effective Teamwork*], LBC Graduate Teaching and Undergraduate Learning Assistant Training, August 2011.

Fata-Hartley, C. and **K.S. Cheruvilil**. *Creating an Inclusive Learning Environment* [including *Unconscious Bias, Learning and Physical Disabilities in the Classroom*, and *Effects of Diversity on Group Learning*], LBC Graduate Teaching and Undergraduate Learning Assistant Training with C. Fata-Hartley. August 2009, August 2010.

Cheruvilil, K.S. *Creating an Inclusive Learning Environment*, Workshop for the MSU College Science Teaching Certification Program, May 2010 Contributed

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

K. Hoag & **K.S. Cheruvilil**. 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. Cheruvilil**, 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. Cheruvilil**. Creating Inclusive Learning Environments. Mini-Workshop at the 34th Annual Association for Biology Laboratory Education conference, Chapel Hill, NC. June 2012.

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

Ian McCullough, Department of Fisheries and Wildlife, August 2017 – present.

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, Department of Fisheries and Wildlife, January - July 2015.

Current position: Biologist at the Irish Environmental Protection Agency.

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 (committee member for 10 additional)

Katelyn King (Ph.D. Student), 2016 - present.

Nicholas Skaff (Ph.D.) 2012 – 2018. Current position: Postdoctoral Researcher at the University of California, Berkeley. 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

Jessica Diaz, Independent Study, Department of Fisheries and Wildlife, 2019 – present.

Maggie Haite, Professorial Assistant, Department of Fisheries and Wildlife & Lyman Briggs College, 2019 – present.

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

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

PROFESSIONAL SERVICE, LEADERSHIP, & ENGAGEMENT

Service to the University -- *Committee Member (Unless otherwise noted)*

Michigan State University:

The Academic Advancement Network (AAN) Advisory Board, January 2018 – present.

Steering Committee, Center for the Integration of Research on Teaching and Learning, Future Academic Scholars in Teaching (FAST) Fellowship Program, 2009 – present.

Honors College Undergraduate Scholarships Selection Committee. 2018 – 2019.

Sponsored Programs Advisory Committee (SPAC), 2018 – 2019.

Council of Research Deans, August 2017 – 2019.

STEM Teaching Essentials Planning Committee, August 2017 – 2019.

Provost's Office Working Group on Professional Standards of Conduct Policy, 2018.

Assistant Dean for Student Success Initiatives and Director of the Neighborhood Student Success Search Committee, 2018.

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

All-University Awards Committee. 2014 – 2016.

Academic Council / Faculty Council. August 2011 – August 2013

Effective Citizenship Liberal Learning Goal Rubric Committee. 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.

Lyman Briggs College:

Chair, Biology Academic Specialist Faculty Search, October 2016 – April 2017.

Inclusion Committee, August 2015 – August 2017.

Educational Policy Committee, August 2014 – August 2015.

Biology Fixed-Term Faculty Search, January – March 2013.

Historian of Science Faculty Search Committee, March – April 2012.

Chair, Briggs Advisory Council, August 2009 – August 2011.

Briggs Advisory Council, August 2008 – August 2009.

Biology Lab Coordinator Search Committee, January 2011– May 2011.

Co-founding Member, Diversity Advisory Committee to the Dean, August 2008 – Dec 2010.

Biology Lab Prep Technician Search Committee, January – May 2008.

Metrics of Success Committee, 2007 – 2008.

Improving Learning Assistant Training Committee, 2008.

Developing the Environmental Science Major Committee, 2008.

Undergraduate Research Symposium Committee, 2008.

Chair, Undergraduate Research Symposium Committee, 2007.

Fisheries & Wildlife Department:

Faculty Annual Review/Reappointment, Promotion, Tenure Process Review Committee, 2019 – present.
Faculty/Staff Awards Committee, 2014 – 2016, 2019 - present.
Faculty Adviser, Graduate Student Organization 2017 Research Symposium, May 2016 – February 2017.
Lake and Stream Outreach Specialist Search Committee, January – May 2008.

Environmental Science and Policy Program:

Faculty Advisory Council, 2011 – 2013.
Environmental Science & Policy Faculty Search Committee, 2008 – 2009.
Faculty & Student Engagement Committee, 2008 – 2009.

Undergraduate Club Faculty Advisor: MSU Swim Club (2012 – 2013); MSU Nordic Ski Club (2009 – 2013).

Certified Facilitator, Gender & Sexuality 101 & Safe-Zone Trainings, Michigan State University LGBTQ Resource Center, 2011 – 2012; Queer Inclusive Learning and Leadership Foundations Training, 2016.

Professional Service & Engagement

Awards Committee Member, Association for the Sciences of Limnology and Oceanography. 2018 – present.
Conference Organizing Committee Member, NSF Macrosystems Biology Program all-PI Meeting, Boulder CO May 15-17, 2019. 2018 – 2019.
Conference Advisory Board Member, 2019 Science of Team Science Conference. May 20-24 2019. 2018 – 2019.
Raelyn Cole Editorial Fellowship Committee Member, Limnology and Oceanography Letters. 2016 - present.
Co-convenor of Special Session: *Tipping the Scales: Examining broad-scale patterns and processes in limnology*, Association for the Sciences of Limnology and Oceanography Summer Meeting, June 2018.
Co-convenor of Special Session: *Data-intensive aquatic research: Networks, teams, sensors, datasets, and open science*, Association for the Sciences of Limnology and Oceanography Aquatic Sciences Meeting, February 2017.
Invited working group participant at SESYNC (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.
International Collaborator for UK Natural Environment Research Council Highlight Topics Program Grant: *Hydroscape: Connectivity x stressor interaction in freshwater habitats*. Lead PI: N. Willby (University of Stirling). 2.9 million GBP (none to MSU). 2015-2019. <https://hydroscapeblog.wordpress.com/about/>
Member, Scientific Organizing Committee, *Association for the Sciences of Limnology and Oceanography Summer Meeting*, June 2016, Santa Fe, NM, 2014 – 2016.
Elected Committee Member, Global Lake Ecological Observatory Network (GLEON) Collaborative Climate Committee. March 2016 - present.
Co-convenor of Special Session: *Data-intensive aquatic research: Networks, teams, sensors, harmonized datasets, and open science*, Association for the Sciences of Limnology and Oceanography Summer Meeting, June 2016.
Conference abstract reviewer, International Society of Limnology (SIL), 2016
Research Reviews Editor, Michigan Chapter of the North American Lakes Management Society Newsletter, 2010- 2013.
Member, Organizing Committee for NSF-sponsored meeting, *NSF Macrosystems Biology Program all-PI meeting*, Boulder, CO, March 11-14, 2012.
Co-convenor of Special Session: *Landscape Limnology: Integrating Lakes, Streams and Wetlands in the Freshwater Landscape*, American Society of Limnology & Oceanography Summer 2010 Aquatic Sciences Meeting, June 2010.
Board Member, Michigan Chapter of the North American Lakes Management Society, May 2007 – Dec 2010.
Co-convenor of Special Session: *Lakes, Streams, Groundwater and Wetlands in the Landscape: Linkages among freshwater systems*, 30th Congress of the International Association of Theoretical and Applied Limnology,” August 2007.

Co-convenor of Special Session: *Landscape limnology: interactions among land, water, and humans at multiple spatial scales*, American Society of Limnology & Oceanography Summer 2006 Aquatic Sciences Meeting, June 2006.

English as a Second Language Grammatical Reviewer, Ecological Society of America Journals 2006.

Editorial Positions

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

Associate Editor

Limnology & Oceanography Letters, 2015 - present

Frontiers in Ecology and the Environment, 2015 - present

Landscape Ecology, 2014 - 2017

Guest Subject Editor

Ecological Applications 2013, 2014, 2015-2016

Northeastern Naturalist 2008-2010

Proposal Reviewer/Panelist

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

MSU Strategic Partnership Grants Reviewer. 2017, 2018

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

Lake Champlain Basin Program Grant Program Reviewer 2011

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

MSU Center for Water Sciences Venture Grant Program Reviewer 2006

Journal Article/Edited Book Chapter 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, Future of Fisheries: Perspectives for Emerging Professionals, Taylor (ed), Hydrobiologia, Journal of Applied Ecology, Journal of Aquatic Plant Management, Journal of Basic and Applied Ecology, Journal of Great Lakes Research, Learning Landscape Ecology, Gergel et al. 2nd edition, Limnologica, Limnology, 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.

Textbook Chapter Reviewer

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.

Participant

CyberAmbassadors. Facilitating team science practices and perspectives, Michigan State University. July 18-19, 2019.

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

MSU Faculty Learning Communities:

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

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

MSU Opening Doors: A Personal and Professional Journey. Tustin, MI. May 19-21 2010.

Dissertations Initiative for the Advancement of Limnology and Oceanography (DIALOG) VII Symposium, Dauphin Island Sea Lab, December 3 - 10, 2005.

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

COMMUNICATING SCIENCE BEYOND THE ACADEME

Invited Presentations

Soranno, P.A., **K.S. Cheruvilil**, 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.

Cheruvilil, 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.

Cheruvilil, 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.

Engagement with Natural Resource Agencies/ Expertise to Inform Environmental Policy

Provided guidance on economic evaluation of aquatic invasive exotics, MI-Department of Environmental Quality 2015.

Led the effort to revise the nutrient standards for Michigan lakes, MI-Department of Environmental Quality 2013-2015.

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.

Provided guidance on how to create state-wide Hg and PCB total maximum daily load standards using landscape classification, LimnoTech for MI-Department of Environmental Quality August 2011.

Provided guidance on ecoregions and ways to quantify the landscape, US Geological Survey 2010-2011.

Provided feedback about the Landscape Conservation Cooperatives, US Fish and Wildlife Service 2010-2013.

Provided feedback about the Maine Fish & Wildlife Service Fish Habitat Model, 2009.

Helped identify reference lakes for Michigan as part of the EPA's Survey of the Nation's Lakes, MI-Department of Environmental Quality 2007.

Helped develop nutrient standards for Michigan lakes, MI-Department of Environmental Quality 2005-2006.

Engagement with Concerned Riparian Property Owners

Provided lake expertise to individual riparian property owners from 12 Michigan lakes regarding topics such as algal blooms and aquatic plant management (2006 – 2016).

Media Coverage of Research

For PlosOne research publication (Elliott et al. 2019) – University of Michigan Press Release, July 18, 2019.

Diversity on teams leads to positive outcomes, but not for all. https://www.eurekalert.org/pub_releases/2019-07/uom-dot071819.php

For Ecological Applications research publication (King et al. 2019) – MSU College of Agriculture and Natural Resources Press Release: *MSU and EPA researchers examine nutrients and aquatic plants in variety of water bodies*. <https://www.canr.msu.edu/news/msu-and-epa-researchers-examine-nutrients-and-aquatic-plants-in-variety-of-water-bodies>

For Global Change Biology research publication (McCullough et al. 2019) – MSU College of Agriculture and Natural Resources Press Release: *Feeling the burn: Wildfires increasingly threaten US lakes*.

<https://www.canr.msu.edu/news/feeling-the-burn-wildfires-increasingly-threaten-us-lakes>

For Ecological Applications research publication (McCullough et al. 2019) – MSU College of Agriculture and Natural Resources Press Release: *New MSU research suggests not all lakes respond the same to climate change*. <https://www.canr.msu.edu/news/new-msu-research-suggests-not-all-lakes-respond-the-same-to-climate-change>

For BioScience research publication (Cheruvilil and Soranno 2018) – Press Releases & Associated Media coverage fall 2018:

Press release from the American Institute of Biological Sciences. *Big data is synergized by team and open science.* https://www.eurekalert.org/pub_releases/2018-09/aiob-bdi091118.php

MSU Press release 12 September 2018. *Big data scientists are more effective when they work together and share data.* <http://www.canr.msu.edu/news/big-data-scientists-are-more-effective-when-they-work-together-and-share-data>

For GigaScience research publication (Soranno et al. 2017) – Press Releases & Associated Media coverage fall 2017:

NSF Press Release. *A fresh look at fresh water: Researchers create a 50,000-lake database.* https://www.nsf.gov/news/news_summ.jsp?cntn_id=243391&org=NSF&from=news.

Michigan State University Press Release. *A fresh look at fresh water.* <http://msutoday.msu.edu/news/2017/a-fresh-look-at-freshwaters/>

Michigan State University Extension Blog Post & Sea Grant Michigan. What happens to my lake water quality monitoring data in a world of big data? http://msue.anr.msu.edu/news/what_happens_to_lake_water_quality_monitoring_data_msg17_triezenberg17 & <http://www.misegrant.umich.edu/news/2017/12/19/what-happens-to-my-lake-water-quality-monitoring-data-in-a-world-of-big-data/>

Michigan State University Press Release to announce National Science Foundation research grant received. *Harnessing big data to see the big picture in ecology.* September 12, 2016.

<http://msutoday.msu.edu/news/2016/harnessing-big-data-to-see-the-big-picture-in-ecology/>

On Biology blog for GigaScience: *Reproducible research and public data-sharing in ecology: A Q+A with LAGOS creators* (Soranno et al. 2015): <http://blogs.biomedcentral.com/on-biology/2015/07/01/reproducible-research-public-data-sharing-ecology-qa-lagos-creators/>

For BioScience research publication (Soranno et al. 2015):

National Biodiversity Network. Invited newsletter article. *Sharing: More than simply playing nice.* January 27, 2015. http://nbn.org.uk/News/Latest-news/Sharing-More-than-Simply-Playing-Nice.aspx?utm_source=eshot&utm_medium=email&utm_campaign=NBN%20eNews%20January%202015

Atlantic Monthly. Interview and quotes. *Scientists have a sharing problem.* December 19, 2014. <http://www.theatlantic.com/health/print/2014/12/scientists-have-a-sharing-problem/383061/>

Michigan State University Press Release to announce research publication. *Some Scientists Share Better Than Others.* October 22, 2014. <http://msutoday.msu.edu/news/2014/some-scientists-share-better-than-others/>

Michigan State University Press Faculty Voice. *Research Team: Studying Environmental Science.* October 22, 2014. <http://msutoday.msu.edu/360/2014/research-team-studying-environmental-science/>

Michigan State University Press Release to announce National Science Foundation research grant received. *Diversity Could Lead to Ethical Behaviors Among Scientists.* September 16, 2014.

<http://msutoday.msu.edu/news/2014/diversity-could-lead-to-ethical-behaviors-among-scientists/>

Cheruvilil, K.S. Professional Blog: Sabbatical in Belfast, N. Ireland 2013-2014. <http://belfastsabbatical13-14.blogspot.com/>, link from professional website: <http://www.ksc.fw.msu.edu/>

For PloS ONE research publication (Lottig et al. 2014) – Press Releases April 30 and May 1, 2014:

University of Wisconsin Press Release. *Citizen scientists provide clarity for lake researchers' big questions.* <http://news.wisc.edu/22805>

Pennsylvania State University Press Release. *Over 60 years of citizen science observations detect trends in Midwestern lakes.* <http://news.psu.edu/story/314178/2014/04/30/research/citizen-scientists-provide-clarity-lake-researchers-questions>

NSF Press Release. *Clarity for lake researchers' water quality questions.* http://www.nsf.gov/discoveries/disc_summ.jsp?cntn_id=131238&org=NSF

- For *Frontiers in Ecology and the Environment* research publication (Cheruvellil et al. 2014):
Archbold Update. Research highlighted in the Archbold Biological Station Newsletter. *Team Science at Archbold*. June 2014. <http://us6.campaign-archive1.com/?u=00a6f63d326fa6edc80274c26&id=65dd180497&e=6da1df2101>
- Michigan State University Press Release. *Research: It's more than just the science*. February 3, 2014. <http://msutoday.msu.edu/news/2014/research-its-more-than-just-the-science/>
- Picked up by many science and news websites, blogs, and Twitter. Two examples:
Science Daily <http://www.sciencedaily.com/releases/2014/02/140204123732.htm>
Phys.org <http://phys.org/news/2014-02-science.html>.
- MSU 2014-2015 Marketing/Branding Campaign. Picture and information on digital billboard at Harrison and Grand River. Fall/Winter 2014/2015.
- Landscape Limnology and You, Multimedia presentation for MSU Lyman Briggs College, Created 2012. On display 2013-present.
- Michigan State University Press Release to announce National Science Foundation research grant received. *MSU professor launches new field of water research*. August 9, 2011. Picked up by the Associated Press (August 14, 2011) as well as 8 newspapers and 16 science and news websites. More details upon request.
- Impact Exposure Interview (MSU Student radio 88.9 FM) (along with P.A. Soranno). August 23, 2011.
- Michigan State University Press Release to announce BioScience research publication (Soranno et al. 2010). *Research makes lake and stream conservation more effective*. June 2, 2010. The press release was posted on 41 additional news and science websites. More details upon request.
- BioScience publication (Soranno et al. 2010) featured in four newspaper/newsletter articles.
- The MSU Fisheries & Wildlife Spotlight: *Does local policy affect inland lake water quality in Michigan?* 2011.
- Michigan Chapter of the North American Lake Management Society Lake Effect Newsletter: *Summary of presentations about inland lake research given at the Michigan State University Department of Fisheries and Wildlife 6th Annual Graduate Student Organization Research Symposium*, April 2011.
- Ludington Daily News: *MSU Student Studying Hackert Lake Milfoil Weevils*, August 26, 2008
- Environmental Science and Policy Program News Roundup: *Research on Phosphorus Levels in Lakes Guides State Policy*, July 2008.
- Animal Agriculture & the Environment Team, The Scoop Newsletter: *Research on Phosphorus Levels in Lakes Guides State Policy*, July 2008.
- Michigan Chapter of the North American Lake Management Society Lake Effect Newsletter: *The Value of Michigan's Lakes and Streams*, April 2008.
- Environmental Science and Policy Program, *Spotlight Faculty Member of the Month*, March 2007.
- EnviroScience, Corp. Interviewed on *Addressing Eurasian Watermilfoil Problems Using MiddFoil*. July 2007.

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
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)

King, K., M.T. Bremigan, D. Infante, and K.S. Cheruvellil. 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. Cheruvilil**, 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. Cheruvilil**, 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.
- Cheruvilil, 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. Cheruvilil**. 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. Cheruvilil**, 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.
- Elliott, K.C., **K.S. Cheruvilil**, 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. Cheruvilil**, 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. Cheruvilil**, 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.
- Cheruvilil, 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. Cheruvilil**, 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. Cheruvilil**. 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. Cheruvilil**, G.M. Montgomery, and P.A. Soranno. Interdisciplinary Scholarship to Promote Inclusivity in Science: A Case Study of Credit and Authorship. Oral presentation to The 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. Cheruvilil**, 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. Cheruvilil**, 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. Cheruvilil**, 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 **Cheruvilil, 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. Cheruvilil**. 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. Cheruvilil**. 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. Cheruvilil** 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. Cheruvilil**. 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. Cheruvilil**. 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. Cheruvilil**. 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. Cheruvilil**. 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. Cheruvilil**, 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. Cheruvilil**, 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. Cheruvilil**, 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. Cheruvilil**, 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.
- Cheruvilil, 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. Cheruvilil**, 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. Cheruvilil**, 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. Cheruvilil** 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. Cheruvilil**, K. Elliott, and G. Montgomery. Exploratory Analysis and Big Data. Oral presentation to The 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. Cheruvilil**. STEP (Science Teams' Effective Practices) Oral presentation to The Consortium for Socially Relevant Philosophy of/in Science and Engineering (SRPoiSE) Detroit, MI. March 2015.
- Lapierre, J.-F., Z.E. Taranu, **K.S. Cheruvilil**, 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. Cheruvilil.** 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. Cheruvilil.* 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. Cheruvilil**, 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.
- Cheruvilil, 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. Cheruvilil, 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. Cheruvilil.** 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. Cheruvilil**, 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. Cheruvilil, 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. Cheruvilil, 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. Cheruvilil.* 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. Cheruvilil, 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. Cheruvilil**, 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. Cheruvilil.* 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. Cheruvilil, 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. Cheruvilil**, 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.

- Cheruvilil 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. Cheruvilil**, 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. Cheruvilil**. 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. Cheruvilil. 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. Cheruvilil**. 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. Cheruvilil**. 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. Cheruvilil**. 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. Cheruvilil**, 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. Cheruvilil**, 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*, **Cheruvilil, 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. Cheruvilil**, 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. Cheruvilil**. 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. Cheruvilil**, M.T. Bremigan. Making Informed Management Decisions About Your Lake Using Regional Landscape Oral 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. Cheruvilil** 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. Cheruvilil**, 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
- Cheruvilil, 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. Cheruvilil**, 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. Cheruvilil**, 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. Cheruvilil**. 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. Cheruvilil**, 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. Cheruvilil**. 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. Cheruvilil**. 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. Cheruvilil**, 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.
- Cheruvilil, 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. Cheruvilil**, Kramer, D.B., Liggmann-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. Cheruvilil**, 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.
- Cheruvilil, 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. Cheruvilil**. 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. Cheruvilil**. 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. Cheruvilil**. 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. Cheruvilil**, 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.
- Cheruvilil, 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. Cheruvilil**, 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. Cheruvilil**, 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.
- Cheruvilil, 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. Cheruvilil**. 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. Cheruvilil**. 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.
- Cheruvilil, 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. Cheruvilil**. Eurasian watermilfoil (*Myriophyllum spicatum*) and the watermilfoil weevil (*Euhrychiopsis 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. Cheruvilil**. 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. Cheruvilil**, 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. Cheruvilil**, 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. Cheruvilil**. 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. Cheruvilil**, 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. Cheruvilil**, 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.
- Cheruvilil, 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. Cheruvilil**, 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. Cheruvilil**. 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. Cheruvilil**. 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. Cheruvilil**. 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. Cheruvilil**, 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. Cheruvilil** 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. Cheruvilil** 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. Cheruvilil**. 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. Cheruvilil**, 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.
- Cheruvilil, 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.
- Martin, S.L.*, P.A. Soranno, **K.S. Cheruvilil** and M.T. Bremigan. A comparison of landscape-based lake classifications for understanding variation in lake water chemistry and clarity. Oral presentation to the American Society of Limnology and Oceanography. Victoria, British Columbia, June 2006.
- Webster, K.E., P.A. Soranno, M.T. Bremigan, **K.S. Cheruvilil**, T. Asplund, L.C. Bacon, K.P. Bell, J. Connor, J.A. Downing, W.H. Renwick, and P.D. Vaux. Landscape patterns in the trophic status of north-temperate lakes (USA): relationships with anthropogenic and hydrogeomorphic features. Oral presentation to the American Society of Limnology and Oceanography. Victoria, British Columbia, June 2006.
- Bremigan, M.T., U. Beier, K. Holmgren, S. Pakkasmaa, **K.S. Cheruvilil**, P.A. Soranno and T. Wagner. Quantifying lake – landscape linkages: comparing landscape regionalizations for capturing water chemistry and fish assemblage variation among Swedish lakes. Poster presentation to the American Society of Limnology and Oceanography. Victoria, British Columbia, June 2006.
- Cheruvilil, K.S.**, P.A. Soranno, M.T. Bremigan, T. Wagner and *S.L. Martin*. Grouping lakes for water quality assessment and monitoring: The role of regionalization. Oral presentation to the North American Lake Management Society. Madison, WI. November 2005.
- Bremigan, M.T., P.A. Soranno, **K.S. Cheruvilil**, and T. Wagner. Can hydrogeomorphic features predict water chemistry and fish growth in Michigan, US lakes?: Implications for lake classification and monitoring. Oral presentation at the 15th Annual Workshop of the Nordic Freshwater Fish Group. Alvkarleby, Sweden. October 2005.
- Cheruvilil, K.S.**, T. Wagner, P.A. Soranno and M.T. Bremigan, and J.E. Breck. Predicting lake physico-chemical variables from landscape features at multiple spatial scales. Oral presentation to the American Society of Limnology and Oceanography. Salt Lake City, UT. February 2005.
- Soranno, P. A., **K.S. Cheruvilil**, and M.T. Bremigan. Relationships between land use and lake nutrients in upper midwest lakes and the effect of landscape context. Oral presentation to the American Society of Limnology and Oceanography. Salt Lake City, UT. February 2005.

Wagner, T., M.T. Bremigan, **K.S. Cheruvilil**, P.A. Soranno, N.A. Nate, and J.E. Breck. Comparing multi-scale predictors of fish growth: towards a regional framework for lake management. Oral presentation to the American Society of Limnology and Oceanography. Salt Lake City, UT. February 2005.