

Martha L. Carlson Mazur, PhD

Professor of Environmental Science

Contact

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Bellarmine University
2001 Newburg Road
Louisville, KY 40205

Academic Leadership

2024-present **Director of Community Academic Outreach**
Bellarmine University

2019-2023 **Chair of Environmental Studies Department**
College of Arts & Sciences, Bellarmine University

Professional Experience

2024-present **Professor, with Tenure**
Department of Environmental Studies in the College of Arts & Sciences,
Bellarmine University

2023 **Academic Program Reviewer**
Geology and Environmental Science Department, Hanover College

2018-2024 **Associate Professor, with Tenure**
School of Environmental Studies, then Department of Environmental
Studies in the College of Arts & Sciences, Bellarmine University

2013-2017 **Assistant Professor**
School of Environmental Studies, Bellarmine University

2012-2013 **Visiting Assistant Professor**, Environmental Studies Program
Earth & Environmental Sciences Department, Boston College

2011 **Lecturer**
School of Natural Resources and Environment, University of Michigan

2010 **Climate-Change Scientist** (Temporary Assignment)
U.S. Geological Survey (USGS) National Headquarters, Reston, VA

2009-2011 **Research Ecologist**
USGS Great Lakes Science Center (GLSC), Ann Arbor, MI

2004-2009 **Research Scientist in Training**, USGS GLSC, Ann Arbor, MI

2002-2004 **Wetland Ecology Consultant**, USGS GLSC, Ann Arbor, MI

Education

- 2009 **PhD, Resource Ecology and Management (Aquatic)**, University of Michigan School of Natural Resources and Environment, Ann Arbor, MI
Dissertation: "Ecohydrology of a Great Lakes Ridge-Swale Coastal Wetland System" Advisors: Dr. Michael J. Wiley, Dr. Douglas A. Wilcox
- 2002 **MS, Resource Ecology and Management (Aquatic)**, University of Michigan School of Natural Resources and Environment, Ann Arbor, MI
Thesis: "Ground-water discharge to stream channels: Test of a topographic ground-water model" Advisor: Dr. Michael J. Wiley
- 1998 **BA, Geology**, Carleton College, Northfield, MN
Thesis: "Knickpoint migration and tufa accretion in five South River tributaries, Central Virginia" Advisors: Dr. Clint Cowan, Dr. Mary Savina, Dr. David Harbor, Dr. Dorothy Merritts, Dr. Tom Gardner

Honors and Awards

- 2023 Student Government Association Professor of the Month Award, Bellarmine University
- 2022 Accessibility Resource Center Champion, Bellarmine University
- 2022 Diversity, Equity, and Inclusion Endorsement, Bellarmine University
- 2021-22 Diversity, Equity, and Inclusion Faculty Fellowship, Bellarmine University
- 2021 Dr. Doris A. Tegart Teaching Excellence Award, Bellarmine University
- 2020 Special Guest of Biruk Araya, Bellarmine Multicultural Celebration
- 2016 Wilson Wyatt Fellowship of Academic Excellence Faculty Award, Bellarmine University
- 2015 Bellie Award for Global Sustainability, Bellarmine University
- 2014-2016 Presidential Merit Award, Bellarmine University
- 2010-2011 Outstanding Research Mentor Award, Undergraduate Research Opportunity Program, University of Michigan
- 2010 USGS Special Thanks for Achieving Results (STAR) Award
- 2009 Coach of the Year, Great Lakes Region, Ultimate Players Association
- 2008 Commitment to Excellence Award, US Army Corps of Engineers, Great Lakes Division
- 2007 Superior Teaching Award, University of Michigan
- 2004 Merit-based scholarship, University of Michigan
- 1998 Graduated Cum Laude from Carleton College

Grants

- 2024 National Science Foundation EPSCoR E-RISE RII: Driving AgTech Research and Education in Kentucky through Inclusive Network Building, Impactful Research, and Workforce Development for Soilless Food Systems ([#2416939](#))
Total award: \$7,000,000. Key personnel

- 2024 WHAS Crusade for Children Request, “Kids on the Move: Pediatric Physical Therapy”
Total award: \$168,000 (applied). Co-investigator
- 2024 Network for Vocation in Undergraduate Education (NetVUE) Grants for Fostering Leadership for Communities of Faith, “Catholic Teaching in Action: Fostering Leadership through Community-Engaged Seminars”
Total award: \$40,000 (applied). Project Leader
- 2024 Etscorn Foundation Request, Therapeutic Greenhouse and Outdoor Education Center at Bellarmine Farm
Total award: \$53,000 (applied). Co-investigator
- 2024 Samtec Cares Grant for Habitat Restoration
Total award: \$65,000 (unfunded). Principal investigator
- 2024 Kentucky Waterways Alliance Watershed Grant
Total award: \$4,000 (unfunded). Principal investigator
- 2023 NetVUE Professional Development Microgrant, Bellarmine University.
Total Award: \$500. Principal investigator
- 2022 Community-Engaged Learning Initiative Grant, Bonner Foundation. Total Award: \$7,000. Co-principal investigator
- 2022 Impact Grant for sustainable partnership with Common Earth Gardens, Bellarmine University. Total Award: \$1000. Principal investigator
- 2022 Accessible Community Garden Development at the Bellarmine University Farm. Louisville Sustainability Fund. Total award: \$5,000 (unfunded). Principal investigator
- 2018 Flow and sediment research to support effective low-head dam removal, Indian Creek, Indiana. Faculty Development Fellowship, Bellarmine University. Total Award: \$3,000. Principal investigator
- 2017 Kentucky Academy of Science Undergraduate Summer Research Grant (awarded to student E. Brown). Total Award: \$2,975. Faculty sponsor
- 2015 Blue River darter and macroinvertebrate research for conservation. The Nature Conservancy. Total award: \$10,000. Principal investigator
- 2014 Project Connect. Teaching and Learning Stipend for pedagogical enhancement of ENV5 340: Aquatic Ecosystems, Bellarmine University. Total award: \$500. Principal investigator
- 2014 Impact Grant for work with the Chickasaw neighborhood, Bellarmine University. Total Award: \$500. Co-principal investigator
- 2014 Kentucky Academy of Science Undergraduate Summer Research Grant (awarded to student G. Gabhart). Total Award: \$1,717. Faculty sponsor
- 2013 Stressors to Ohio River tributary ecosystems. Faculty Development Fellowship, Bellarmine University. Total Award: \$3,000. Principal investigator
- 2013 Mapping and forecasting the invasive Phragmites spread in the Great Lakes Basin with remote sensing and crowd-sourcing. NASA Research Opportunities in Space and Earth Sciences. Unfunded. Co-investigator
- 2012, 2013 Undergraduate Research Fellowship. Boston College. Total Awards: \$1,425 and \$1,140. Principal investigator

- 2011 Humans, hydrology, climate change, and ecosystems: An integrated analysis of water resources and ecosystem services in the Great Lakes Basin. National Science Foundation Water Sustainability and Climate grant. Unfunded. Co-investigator
- 2010-2012 Forecasting potential Phragmites invasion corridors. Great Lakes Restoration Initiative, USEPA Great Lakes National Program Office. Total Award: \$983,000 (\$14,318 to Boston College). Co-principal investigator
- 2010-2012 Characterizing habitat and food web structures across Great Lakes rivermouth estuaries. Great Lakes Restoration Initiative, USEPA Great Lakes National Program Office. Total Award: \$1,600,000. Co-investigator
- 2010-2011 New Strategies for Restoring Coastal Wetland Function. Great Lakes Restoration Initiative, USEPA Great Lakes National Program Office. Total Award: \$1,300,000. Co-principal investigator
- 2006 Evapotranspiration and Ground-Water Flow Systems in a Fresh-Water Coastal Ridge-and-Swale System. Sigma Xi Grants-in-Aid-of-Research. Total Award: \$700. Principle investigator

Peer-Reviewed Publications

1. **Carlson Mazur, ML**, B Smith, B Bird, S McMillan, M Pyron, C Hauswald. 2021. Hydrologic connectivity and land cover affect floodplain lake water quality, fish abundance, and fish diversity in floodplain lakes of the Wabash-White River basin. *River Research and Applications* 38: 160-172. DOI: [10.1002/rra.3888](https://doi.org/10.1002/rra.3888)
2. **Carlson Mazur, ML**, DA Wilcox, MJ Wiley. 2020. Hydrogeology and landform morphology affect plant communities in a Great Lakes ridge-and-swale wetland complex. *Wetlands* 40: 2209-2224. DOI: [10.1007/s13157-020-01312-6](https://doi.org/10.1007/s13157-020-01312-6)
3. Wilcox, DA, **ML Carlson Mazur**, TA Thompson. 2020. Groundwater controls on wetland vegetation of a ridge-and-swale chronosequence in a Lake Michigan embayment. *Wetlands* 40:2425-2442. DOI: [10.1007/s13157-020-01336-y](https://doi.org/10.1007/s13157-020-01336-y)
4. **Carlson Mazur, ML**, J Schaeffer, JE Granneman, N Goldstrohm, FA Fitzpatrick, JH Larson, PC Reneau, KP Kowalski, PW Seelbach. 2019. Seasonal patterns in hydrochemical mixing in three Great Lakes rivermouth ecosystems. *Journal of Great Lakes Research* 45:651-663. DOI: [10.1016/j.jglr.2019.03.009](https://doi.org/10.1016/j.jglr.2019.03.009)
5. Xu, W, P Collingsworth, B Bailey, **ML Carlson Mazur**, J Schaeffer, B Minsker. 2017. Detecting spatial patterns of rivermouth processes using a geostatistical framework for near-real-time analysis. *Environmental Modelling & Software* 97:72-85. DOI: [10.1016/j.envsoft.2017.06.049](https://doi.org/10.1016/j.envsoft.2017.06.049)
6. McLaughlin, D, **ML Carlson Mazur**, DA Kaplan, MJ Cohen. 2014. Estimating effective specific yield in inundated conditions: a comment on a recent application. *Ecohydrology* 7:1245-1247. DOI: [10.1002/eco.1522](https://doi.org/10.1002/eco.1522)

7. **Carlson Mazur, ML**, KP Kowalski, D Galbraith. 2014. Assessment of suitable habitat for *Phragmites australis* (common reed) in the Great Lakes coastal zone. *Aquatic Invasions* 9:1-19. DOI: [10.3391/ai.2014.9.1.01](https://doi.org/10.3391/ai.2014.9.1.01)
8. **Carlson Mazur, ML**, MJ Wiley, DA Wilcox. 2014. Estimating evapotranspiration and groundwater flow from water-table fluctuations for a general wetland scenario. *Ecohydrology* 7:378-390. DOI: [10.1002/eco.1356](https://doi.org/10.1002/eco.1356)
9. Larson, JH, A Trebitz, AD Steinman, MJ Wiley, **ML Carlson Mazur**, V Pebbles, H Braun, P Seelbach. 2013. Great Lakes rivermouth ecosystems: Scientific synthesis and management implications. *Journal of Great Lakes Research* 39:513-324. DOI: [10.1016/j.jglr.2013.06.002](https://doi.org/10.1016/j.jglr.2013.06.002)
10. Bourgeau-Chavez, LL, KP Kowalski, **ML Carlson Mazur**, KA Scarbrough, RB Powell, CN Brooks, B Huberty, LK Jenkins, EC Banda, DM Galbraith, Z Laubach, KD Riordan. 2013. Mapping invasive *Phragmites australis* in the coastal Great Lakes with ALOS PALSAR satellite imagery for decision support. *Journal of Great Lakes Research*: 39:65-77. DOI: [10.1016/j.jglr.2012.11.001](https://doi.org/10.1016/j.jglr.2012.11.001)
11. Wiley, MJ, DW Hyndman, BC Pijanowski, AD Kendall, C Riseng, ES Rutherford, ST Cheng, **ML Carlson**, JA Tyler, RJ Stevenson, PJ Steen, PL Richards, PW Seelbach, JM Koches. 2010. A multi-modeling approach to evaluating climate and land use change impacts in a Great Lakes tributary river basin. *Hydrobiologia* 657:243-262. DOI [10.1007/s10750-010-0239-2](https://doi.org/10.1007/s10750-010-0239-2)
12. **Carlson, ML**, KP Kowalski, DA Wilcox. 2009. Promoting species establishment in a *Phragmites*-dominated Great Lakes coastal wetland. *Natural Areas Journal* 29:263-280. DOI: [10.3375/043.029.0306](https://doi.org/10.3375/043.029.0306)
13. Wilcox, DA, KP Kowalski, HL Hoare, **ML Carlson**, HN Morgan. 2008. Cattail invasion of sedge/grass meadows in Lake Ontario: Photointerpretation analysis of sixteen wetlands over five decades. *Journal of Great Lakes Research* 34: 301-323. DOI: [10.3394/0380-1330\(2008\)34\[301:CIOGMI\]2.0.CO;2](https://doi.org/10.3394/0380-1330(2008)34[301:CIOGMI]2.0.CO;2)
14. Wilcox, DA, MJ Sweat, **ML Carlson**, KP Kowalski. 2006. A water-budget approach to hydrologic restoration of a sedge fen. *Journal of Hydrology* 320: 501-517. DOI: [10.1016/j.jhydrol.2005.07.026](https://doi.org/10.1016/j.jhydrol.2005.07.026)
15. Baker, ME, MJ Wiley, PW Seelbach, **ML Carlson**. 2003. A GIS model of subsurface water potential for aquatic resource inventory, assessment, and environmental management. *Environmental Management* 32:706-719. DOI: [10.1007/s00267-003-0018-1](https://doi.org/10.1007/s00267-003-0018-1)

In Review, Revision, and Preparation

1. **Carlson Mazur, ML**, C Waters, and C Combs. Improving utility of undergraduate data collection of stream water quality through community partnership development. *In review, Journal of College Science Teaching*
2. **Carlson Mazur, ML**. Multicultural auditing of curricula to promote inclusivity in higher education. *In Preparation, Journal of Diversity in Higher Education*

3. **Carlson Mazur, ML**, N Goebel, M Tori, S Neupane, CG Gomez, J Glaser, and M Holmes. Riparian vegetation and hydrologic routing affect water quality and habitat viability in two restored urban wetlands. *In Preparation, Journal of Environmental Quality*
4. **Carlson Mazur, ML**, K Kowalski, E Hernandez, K Prats, S Antonelli, R Baskett, and J Schaeffer. Understanding interactions between hydrogeomorphic structure and wetlands in Great Lakes rivermouth ecosystems. *In Preparation, Journal of Great Lakes Research*

Website

Carlson Mazur, ML, KP Kowalski, D Galbraith. 2012. Great Lakes Restoration Initiative Phragmites Decision Support Tool Mapper. <https://wim.usgs.gov/phragmites/>. Accessed 2 December 2023 (USGS peer-reviewed)

Dissertation and Theses

1. **Carlson, ML**. 2009. Ecohydrology of a Great Lakes coastal ridge-swale wetland system. Doctoral dissertation, University of Michigan, Ann Arbor, MI. Handle: [2027.52/64715](https://hdl.handle.net/2027.52/64715)
2. **Carlson, ML**. 2002. Groundwater discharge to stream channels: a test of a topographic groundwater model. Master's thesis, University of Michigan, Ann Arbor, MI. Handle: [2017.52/101643](https://hdl.handle.net/2017.52/101643)
3. **Carlson, ML**. 1998. Knickpoint migration and tufa accretion in five South River tributaries, Central Virginia. Senior Integrative Exercise, Carleton College, Northfield, MN.

Technical Reports

1. **Carlson Mazur, ML**, N Nowacki, and R Baskett. 2016. Ecological Assessment of the Blue River in Southern Indiana. Report to The Nature Conservancy. Bellarmine University, Louisville, KY.
2. Kowalski, KP, MJ Wiley, DA Wilcox, **ML Carlson Mazur**. 2014. 2011 Summary: Coastal Wetland Restoration Research. [Cooperator Report](#) to the U.S. Fish and Wildlife Service. U.S. Geological Survey, Great Lakes Science Center, Ann Arbor, MI.
3. Wilcox, DA, JW Ingram, KP Kowalski, JE Meeker, **ML Carlson**, Y Xie, G P Grabas, KL Holmes, and NJ Patterson. 2005. Evaluation of water level regulation influences on Lake Ontario and Upper St. Lawrence River coastal wetland plant communities. [Final Project Report](#) to the Lake Ontario-St. Lawrence River Study, International Joint Commission.
4. Wilcox, DA, KP Kowalski, and **ML Carlson**. 2004. Relationships between Lake Ontario water levels and wetlands. [Year 3 Report](#) for the Wetland Habitat Quantity Performance Indicator Study, International Joint Commission.

5. Wilcox, DA, KP Kowalski, and **ML Carlson**. 2004. Evaluation of invasive species control techniques at Crane Creek wetland, western Lake Erie. Report for 2003 USFWS Coastal Program Grant.
6. Wilcox, DA, KP Kowalski, H Roten, and **ML Carlson**. 2003. Relationships between Lake Ontario water levels and wetlands. Year 2 Report for the Wetland Habitat Quantity Performance Indicator Study, International Joint Commission.

Presentations

1. **Carlson Mazur, ML**, A Baylon. 2024. Intersecting Identity and Community: Toward Equity and Reciprocity in a Community-Engaged Learning Partnership. Association for Environmental Studies and Sciences Annual Conference (*virtual*).
2. **Carlson Mazur, ML**, A Baylon, M Abee. 2024. Intersecting Identity and Community: Toward Equity and Reciprocity in a Community-Engaged Learning Partnership between Common Gardens and Bellarmine University. 9th Annual Engaged Scholarship Symposium, University of Louisville, Louisville, KY.
3. Real, M, J McNatt, **ML Carlson Mazur**. 2023. Career everywhere: integrating career development across campus. Student Success Summit. Bellarmine University, Louisville, KY.
4. Carter, H, **ML Carlson Mazur**. 2023. Relationship between habitat quality and biodiversity in an urban floodplain ecosystem. Wilson Ornithological Society Annual Meeting. Muhlenberg College, Allentown, PA.
5. **Carlson Mazur, ML**, A Baylon, J Evans, A Hussein. 2023. Intersecting Identity and Community: Toward Equity and Reciprocity in a Community-Engaged Learning Partnership between Common Gardens and Bellarmine University. 8th Annual Engaged Scholarship Symposium, University of Louisville, Louisville, KY. (*Cancelled due to COVID*)
6. Pardieu, S, **ML Carlson Mazur**. 2023. The effect of habitat change and pollution from surface top mining and current reclamation practices on biodiversity in Eastern Kentucky. Southern Regional Honors Council Annual Conference, Charlotte, NC. (*poster*)
7. **Carlson Mazur, ML**, C Waters, C Combs. 2023. Improving utility of undergraduate data collection of stream water quality through community partnership development. Salt River Watershed Watch Annual Conference, Louisville, KY.
8. **Carlson Mazur, ML**, C Waters, C Combs. 2022. Improving utility of undergraduate data collection of stream water quality through community partnership development. Kentucky Academy of Sciences Conference, Morehead, KY.
9. Carter, H, **ML Carlson Mazur**. 2022. Relationship between habitat quality and biodiversity in an urban floodplain ecosystem. Kentucky Academy of Sciences Conference, Morehead, KY.

10. **Carlson Mazur, ML.** 2022. Workshop on Multicultural Curriculum: What, why, how, and where. Retreat on Inclusive Teaching Practices. Bellarmine University, Louisville, KY.
11. Hernandez, E, **ML Carlson Mazur.** 2022. Great Lakes rivermouth wetlands: Impacts of lake levels and river flows on wetland area. Geological Society of America North-Central/Southeastern Joint Section Meeting, Cincinnati, OH.
12. **Carlson Mazur, ML,** B Smith, S McMillan, B Bird, M Pyron, C Hauswald. 2021. Hydrologic connectivity informs restoration of water quality and fish abundance and diversity in floodplain lakes of the Wabash-White watershed. Ecological Society of America conference, virtual.
13. Brown, E, **ML Carlson Mazur,** C Hauswald, J Sweeten. 2019. Effect of sediment deposition and toxicity on low-head dams in Indian Creek in southern Indiana. Kentucky Academy of Science annual meeting, Berea, KY.
14. **Carlson Mazur, ML,** NM Goebel, S Neupane, CG Gomez, J Glaser. 2019. Unexpected restoration outcomes in two urban wetlands resulting from differential groundwater flow. Kentucky Academy of Science annual meeting, Berea, KY.
15. **Carlson Mazur, ML,** C Waters. 2019. Connecting Ecology. Ecological Society of America, Earth Stewardship Initiative Workshop, Louisville, KY. (*invited*)
16. **Carlson Mazur, ML,** N Goebel, S Neupane, CG Gomez. 2019. Riparian vegetation and hydrologic routing affect water quality and habitat viability in two restored urban wetlands. Ecological Society of America meeting, Louisville, KY.
17. Neupane, S, **ML Carlson Mazur.** 2019. Effects of flow regime on water chemistry and soil of restored wetlands. Ecological Society of America meeting, Louisville, KY. (*poster*)
18. Gomez, CG, **ML Carlson Mazur.** 2019. Water quality implications for macroinvertebrate communities in restored urban wetlands. Ecological Society of America meeting, Louisville, KY. (*poster*)
19. **Carlson Mazur, ML,** C Copley, C Hauswald. 2018. Sinkholes and their riparian buffers influence water chemistry in the Blue River, southern Indiana. Geological Society of America meeting, Indianapolis, IN.
20. Schaeffer, JS, S Friedline, **ML Carlson Mazur,** J Granneman, N Goldstrohm, J Larson. 2016. Larval fish communities differ among Great Lakes rivermouths, American Fisheries Society Annual Meeting, Kansas City, MO
21. **Carlson Mazur, ML,** C Hauswald, R Baskett, N Nowacki. 2016. Effects of riparian wetlands and forested land cover on lower watershed recovery from upstream stressors. Society of Wetland Scientists annual conference, Corpus Christi, TX
22. Baskett, R, N Nowacki, **ML Carlson Mazur.** 2015. Monitoring of fish and macroinvertebrate biodiversity along the Blue River in southern Indiana.

Kentucky Academy of Science annual meeting, Northern Kentucky University, Highland Heights, KY (*poster*)

23. **Carlson Mazur, ML.** 2015. Professional branding in an early-career transition to academia. Society of Wetland Scientists annual conference, Providence, RI
24. **Carlson Mazur, ML.** 2015. The footprints our food choices create. Kentucky Academy of Nutrition and Dietetics, Louisville, KY (*invited*)
25. **Carlson Mazur, ML,** R Clemons, G Mican. 2014. Nutrient Dynamics and Water Quality in Ohio River Tributary Ecosystems. Kentucky Academy of Science Annual Conference. Lexington, KY
26. Gabhart, G, **ML Carlson Mazur.** 2014. Industrial discharges of dissolved metals into Ohio River tributaries and consequential effects on benthic macroinvertebrate communities. Kentucky Academy of Science Annual Conference. Lexington, KY (*poster*)
27. Collingsworth, P, W Xu, B Minsker, J Schaeffer, **ML Carlson Mazur.** 2014. Characterization of river plumes in Lake Michigan using a towed multisensor array. American Fisheries Society Annual Meeting, Quebec City, Canada
28. Kern, M, **ML Carlson Mazur,** M McGregor. 2014. Comparison of algal diet size in juvenile *Ligumia recta*, Kentucky Department of Fish and Wildlife Resources 9th Annual Freshwater Mollusk Conference, Frankfort, KY
29. **Carlson Mazur, ML,** K Kowalski, D Galbraith. 2013. *Phragmites* expansion in the Great Lakes coastal zone: Current trends and future predictions. Society of Wetland Scientists meeting, Duluth, MN
30. **Carlson Mazur, ML,** S Antonelli, E Idleman, K Kowalski, K Prats, J Schaeffer. 2013. Wetland distribution and habitat dynamics in rivermouth ecosystems of the Great Lakes. Society of Wetland Scientists meeting, Duluth, MN
31. Bickford, W, **ML Carlson Mazur,** D Galbraith, K Kowalski. 2013. Predicting *Phragmites* expansion in the Laurentian Great Lakes: Combining radar mapping and habitat suitability modeling in an online decision support. Society of Wetland Scientists meeting, Duluth, MN
32. Bourgeau-Chavez, LL, K Scarbrough, LK Jenkins, K Riordan, R Powell, CN Brooks, KP Kowalski, **ML Carlson Mazur,** Z Laubach, EC Banda, B Huberty. 2013. Coastal Great Lakes detection and mapping of the invasive *Phragmites australis* wetland species with ALOS PALSAR Imagery. International Association of Great Lakes Research, Purdue, IN
33. Reneau, P, F Fitzpatrick, **ML Carlson Mazur.** 2013. Role of spatial and temporal interactions of water levels and flows in determining physical habitat structure of Great Lakes rivermouths. International Association of Great Lakes Research, Purdue, IN
34. Prats, K, **ML Carlson Mazur.** 2013. Relationships among hydrogeomorphology, wetland distribution, and water levels over time in estuarine environments.

Northeast Geological Society of America 48th Annual Meeting, Bretton Woods, NH (*poster*)

35. Schaeffer, JS, **ML Carlson Mazur**, J Granneman, NA Amoroso, J Allen, P Reneau, D Bennion, RF Gaugush, P Seelbach. 2012. Freshwater rivermouths are just like marine estuaries, just without all that salt. Annual Meeting of the American Fisheries Society, Minneapolis-St. Paul, MN
36. **Carlson Mazur, ML**, KP Kowalski, DM Galbraith, LL Bourgeau-Chavez, L Jenkins, C Brooks. 2012. Predicting *Phragmites* expansion in the Laurentian Great Lakes. INTECOL and Society of Wetland Scientists meeting, Orlando, FL
37. **Carlson Mazur, ML**, FA Fitzpatrick, J Granneman, NA Amoroso, J Allen, P Reneau, D Bennion, RF Gaugush, J Schaeffer. 2012. Understanding hydrogeomorphic influences on rivermouth ecosystem structure. International Association of Great Lakes Research, Cornwall, ON
38. Schaeffer, JS, **ML Carlson Mazur**, JH Larson, PW Seelbach, WB Richardson, KP Kowalski, FA Fitzpatrick, JC Nelson, DW Schloesser, RF Gaugush, JB Waide, L Fogarty-Nelson. 2012. Three presentations: Lake Huron Citizen's Advisory Board, Roscommon, MI; Michigan Sea Grant central region spring workshop, Alpena, MI; Michigan Sea Grant southern region spring workshop, Port Huron, MI
39. Schaeffer, JS, **ML Carlson Mazur**, JH Larson, PW Seelbach, WB Richardson, KP Kowalski, FA Fitzpatrick, JC Nelson, DW Schloesser, RF Gaugush, JB Waide, L Fogarty-Nelson. 2012. Rivermouths and the Great Lakes: freshwater estuaries in freshwater seas. Society for Ecological Restoration, Ann Arbor, MI
40. **Carlson Mazur, ML**, JH Larson, PW Seelbach*, WB Richardson, J Schaeffer, KP Kowalski, FA Fitzpatrick, JC Nelson, DW Schloesser, RF Gaugush, JB Waide. 2011. Characterization of habitat and food webs in Great Lakes rivermouth ecosystems. State of the Lake and Great Lakes Beach Association Conference 2011, Michigan City, IN (*presenter)
41. Bourgeau-Chavez, L, RB Powell, LK Jenkins, CN Brooks, T Erickson, **ML Carlson Mazur**, KP Kowalski, B Huberty, K Riordan. 2011. Large-scale invasive *Phragmites* mapping. *Phragmites* Invasions in Michigan: A Symposium to Build Capacity for Management, East Lansing, MI (*invited*)
42. Larson, JH, WB Richardson, **ML Carlson Mazur**, KP Kowalski, PW Seelbach. Characterizing habitat and food web structures across Great Lakes rivermouth zones to support restoration. 2011. Coastal Zone Conference. Chicago, IL
43. **Carlson Mazur, ML**, G Ito, F Fitzpatrick, R Gaugush, D Bennion. 2011. Understanding hydrogeomorphic influences on wetland habitat structure in rivermouth ecosystems of the Laurentian Great Lakes. Joint Meeting of Society of Wetland Scientists, WETPOL and Wetland Biogeochemistry Symposium, Prague, Czech Republic (*poster*)
44. **Carlson Mazur, ML**, KP Kowalski, D Galbraith, LL Bourgeau-Chavez, R Powell, C Brooks. 2011. Mapping *Phragmites* and predicting corridors of invasion in the

coastal zone of the Laurentian Great Lakes. Joint Meeting of Society of Wetland Scientists, WETPOL and Wetland Biogeochemistry Symposium, Prague, Czech Republic

45. Kowalski, KP, **ML Carlson Mazur**, S Doty, S Hoyt, J Molenhouse. 2011. Coastal wetland ecosystem rehabilitation through hydrologic reconnection: Diked wetlands in western Lake Erie. Joint Meeting of Society of Wetland Scientists, WETPOL and Wetland Biogeochemistry Symposium, Prague, Czech Republic
46. Bourgeau-Chavez, L, RB Powell, CN Brooks, **ML Carlson Mazur**, K Kowalski, K Riordan. 2011. Detection and monitoring of invasive *Phragmites* in the coastal Great Lakes. Coastal Zone 2011 Conference, Chicago, IL
47. **Carlson Mazur, ML**, JH Larson, WB Richardson, J Schaeffer, KP Kowalski, DW Schloesser, JD Allen, RV Gaugush, FA Fitzpatrick, PW Seelbach, JB Waide. 2011. Science for effective restoration of rivermouth ecosystems: Controls on biophysical structure and food-web processes. International Association of Great Lakes Research Annual Meeting, Duluth, MN
48. Bourgeau-Chavez, LL, RB Powell, LK Jenkins, CN Brooks, T Erickson, **ML Carlson Mazur**, K Kowalski, B Huberty, K Riordan. 2011. Mapping and monitoring of invasive *Phragmites* in the coastal Great Lakes using Radar imagery. International Association of Great Lakes Research Annual Meeting, Duluth, MN
49. Jenkins, L, L Bourgeau-Chavez, R Powell, K Riordan, K Kowalski, **ML Carlson Mazur**, B Huberty. 2011. Updated invasive *Phragmites* mapping methods and results for the Great Lakes region. Soil and Water Conservation Society Annual Meeting, Washington, DC
50. Galbraith, D, **ML Carlson Mazur**, KP Kowalski, J Shaeffer. 2010. Using remote sensing to predict invasion paths of invasive wetland plants and their impact on wetland fish communities. American Fisheries Society, Pittsburgh, PA (*invited*)
51. **Carlson Mazur, ML**, DA Wilcox, MJ Wiley, G Ito. 2010. Hydrologic drivers governing Great Lakes wetland plant community response to climate change. Society of Wetland Scientists Annual Meeting, Salt Lake City, UT
52. **Carlson Mazur, ML**, DA Wilcox, MJ Wiley. 2010. Water-balance interactions of plants and groundwater in a Lake Huron coastal wetland complex. International Association of Great Lakes Research, Toronto, ON, Canada
53. Kowalski, KP and **Carlson Mazur, ML**. 2010. Forecasting *Phragmites* invasion corridors along the Great Lakes coast. USGS Climate Change Conference. Denver, CO
54. **Carlson, ML**, DA Wilcox, MJ Wiley. 2009. Dynamics among vegetation, hydrology, and underlying geology of a ridge-swale wetland of the Laurentian Great Lakes. Society of Wetland Scientists Annual Meeting, Madison, WI
55. **Carlson, ML**, MJ Wiley, DA Wilcox. 2009. Techniques for measuring wetland hydrology with implications for restoration. The Stewardship Network Conference, East Lansing, MI

56. **Carlson, ML**. 2008. Hydrology and vegetation in ridge-and-swale wetlands. US Army Corps of Engineers Lakes and Rivers Division Regulatory Project Managers Conference, Traverse City, MI (*invited*)
57. **Carlson, ML**, DA Wilcox, MJ Wiley. 2008. Evapotranspiration and ground-water flow in a fresh-water coastal ridge-and-swale system: Preliminary results. Society of Wetland Scientists Annual Meeting, Washington, DC
58. **Carlson, ML**, KP Kowalski, DA Wilcox. 2007. Evaluation of secondary treatments for *Phragmites australis* in Crane Creek wetland, western Lake Erie. Society of Wetland Scientists Annual Meeting, Sacramento, CA
59. Kowalski, KP, **ML Carlson**, DA Wilcox. 2007. Evaluation of control techniques for *Phragmites australis* in coastal wetlands, Ottawa National Wildlife Refuge, Ohio. Invasive Plant Council Research Conference. Delaware, OH
60. Wilcox, DA, SJ Baedke, **ML Carlson**. 2006. Ground-water controls on wetland plant community response to climate change. Society of Wetland Scientists Annual Meeting, Cairns, Australia
61. **Carlson, ML**, DA Wilcox, KP Kowalski. 2005. Evaluation of *Phragmites australis* control techniques in a degraded coastal wetland, western Lake Erie. Society of Wetland Scientists Annual Meeting, Charleston, SC
62. Wilcox, DA, Y Xie, KP Kowalski, J Ingram, **ML Carlson**. 2005. Modeling wetland response to proposed changes in hydrologic regulation of Lake Ontario. International Association of Great Lakes Research Annual Conference on Great Lakes Research, Ann Arbor, MI (*invited*)
63. Wilcox, DA, MJ Sweat, **ML Carlson**, KP Kowalski. 2005. Planning hydrologic restoration of small streams in a large, ditched and diked peatland. 135th Annual Meeting of the American Fisheries Society, Anchorage, AK (*invited*)
64. Wilcox, DA, KP Kowalski, **ML Carlson**. 2004. Role of fluctuating water levels on Lake Ontario coastal wetlands. Celebrating the 25th Anniversary of the Wetland Protection Act Conference, Traverse City, MI (*invited*)
65. Wilcox, DA, Y Xie, KP Kowalski, J Ingram, **ML Carlson**. 2004. Modeling wetland response to proposed changes in hydrologic regulation of a large reservoir–Lake Ontario. Geological Society of America Meeting, Denver, CO
66. Wilcox, DA, JE Meeker, KP Kowalski, J Ingram, **ML Carlson**, TL King. 2004. Wetland plant communities vs. lake-level regulation: developing a new regulation plan for Lake Ontario. Society of Wetland Scientists Annual Meeting, Seattle, WA
67. Kowalski, KP, DA Wilcox, HL Roten, **ML Carlson**. 2003. Evaluation of coastal wetland plant community responses to regulated Lake Ontario water levels using aerial photographs and GIS. Society of Wetland Scientists Annual Meeting, New Orleans, LA
68. Wilcox, DA, MJ Sweat, **ML Carlson**, KP Kowalski. 2003. A water-budget approach to hydrologic restoration of a sedge fen. Geological Society of America Annual Meeting, Seattle, WA

69. **Carlson, ML.** 1998. Knickpoint migration and tufa accretion in five South River tributaries, Central Virginia. Eleventh Keck Research Symposium in Geology Proceedings: Amherst College, Amherst, MA (*invited*)

Mentored Student Presentations

1. Camba, L. 2024. The effect of agrivoltaics on irrigation water consumption on large crop farms in Central California. Celebration of Student Research and Creativity, Bellarmine University, Louisville, KY. (*poster*)
2. Donahue, E. 2024. Using Wetland Macroinvertebrate Biodiversity to Assess Water Quality at the Passionist Earth and Spirit Center in Louisville, KY. Celebration of Student Research and Creativity, Bellarmine University, Louisville, KY. (*poster*)
3. Malloy, K. 2024. Sedimentation and Water Quality in Urban Wetlands. Celebration of Student Research and Creativity, Bellarmine University, Louisville, KY. (*poster*)
4. Masters, M. 2024. Bellie Stream Habitat Assessment. Celebration of Student Research and Creativity, Bellarmine University, Louisville, KY. (*poster*)
5. Kontic, M. 2024. A Sense of Place: Corridor Connection and South Fork Beargrass Creek, Louisville, Kentucky. Celebration of Student Research and Creativity, Bellarmine University, Louisville, KY. (*poster*)
6. Kontic, M. 2024. A Sense of Place: Corridor Connection and South Fork Beargrass Creek, Louisville, Kentucky. Salt River Watershed Watch Annual Conference, Louisville, KY. (*poster*)
7. Kontic, M. 2024. A Sense of Place: Corridor Connection and South Fork Beargrass Creek, Louisville, Kentucky. Southern Regional Honors Council Conference, Jacksonville, FL. (*poster*)
8. Camba, L. 2023. The effect of agrivoltaics on irrigation water consumption on large crop farms in Central California, Kentucky Honors Roundtable Conference, Louisville, KY. (*talk*)
9. Pardieu, S. 2023. The effect of habitat change and pollution from surface top mining and current reclamation practices on biodiversity in Eastern Kentucky. Celebration of Student Research and Creativity, Bellarmine University, Louisville, KY. (*poster*)
10. Duncan, C. 2023. Water quality and sustainability in urban wetlands. Celebration of Student Research and Creativity, Bellarmine University, Louisville, KY. (*poster*)
11. Ferrell, J. 2023. How does habitat influence macroinvertebrates populations in forested wetlands in an urban setting? Celebration of Student Research and Creativity, Bellarmine University, Louisville, KY. (*poster*)

12. Hernandez, E. 2022. Great Lakes rivermouth wetlands: Impacts of lake levels and river flows on wetland area. Celebration of Student Research and Creativity, Bellarmine University, Louisville, KY. (*poster*)
13. Glaser, J. 2020. Stressors to urban wetlands. Celebration of Student Research and Creativity, Bellarmine University, Louisville, KY. (*poster, cancelled due to COVID*)
14. Holmes, M. 2020. Groundwater geochemical research for wetlands. Celebration of Student Research and Creativity, Bellarmine University, Louisville, KY. (*poster*)
15. Kotarski, M. 2020. Anthropogenic effects on wetland macroinvertebrates. Celebration of Student Research and Creativity, Bellarmine University, Louisville, KY. (*poster*)
16. Waters, C. 2019. Promoting Utility of Student Data in Water Quality Decision-Making. Celebration of Student Research and Creativity, Bellarmine University, Louisville, KY. (*poster*)
17. Neupane, S. 2019. Effects of flow regime on water chemistry and soil of restored wetlands. Celebration of Student Research and Creativity, Bellarmine University, Louisville, KY. (*poster*)
18. Gomez, C.G. 2019. Water quality implications for macroinvertebrate communities in restored urban wetlands. Celebration of Student Research and Creativity, Bellarmine University, Louisville, KY. (*poster*)
19. Crone, E. 2018. Comparison of habitat and water quality in the Blue River's Salem and South Forks in Southern Indiana to support watershed management. Celebration of Student Research and Creativity, Bellarmine University, Louisville, KY (*poster*)
20. Brown, E. 2018. How do low-head dams affect sediment deposition and toxicity in Indian Creek in southern Indiana? Celebration of Student Research and Creativity, Bellarmine University, Louisville, KY (*poster*)
21. Copley, C. 2017. Riparian buffered sinkholes in the Blue River watershed. Senior Honors Thesis Symposium, Bellarmine University, Louisville, KY
22. Copley, C. 2017. Riparian vegetated sinkholes in the Blue River watershed and their effect on pollution and macroinvertebrates. Celebration of Student Research and Creativity, Bellarmine University, Louisville, KY (*poster*)
23. Ricketts, D. 2017. Environmental injustice in Louisville's urban neighborhoods. Celebration of Student Research and Creativity, Bellarmine University, Louisville, KY (*poster*)
24. Nowacki, N. and R. Baskett. 2016. Biodiversity of the Blue River in southern Indiana with a focus on macroinvertebrates and fish. Celebration of Student Research and Creativity, Bellarmine University, Louisville, KY (*poster*)

25. Baskett, R. 2016. Water level and stream flow impacts on riverine wetlands of Lake Michigan. Celebration of Student Research and Creativity, Bellarmine University, Louisville, KY (*poster*)
26. McEachern, T. 2016. Determining the most efficient type of growth light for an aquaponics system using yellow lantern chilies. 2016. Celebration of Student Research and Creativity, Bellarmine University, Louisville, KY (*poster*)
27. McEachern, T. 2016. Determining the most efficient type of growth light for an aquaponics system using yellow lantern chilies. 2016. Senior Honors Thesis Symposium, Bellarmine University, Louisville, KY
28. Gilmore, E. and M.L. Carlson Mazur. 2015. Water quality and sediment deposition of Beargrass Creek State Nature Preserve. Celebration of Student Research, Bellarmine University, Louisville, KY (*poster*)
29. Clemons, R. and M.L. Carlson Mazur. 2015. Effects of geomorphic alterations on nutrient processing capabilities of Ohio River tributary ecosystems. Celebration of Student Research, Bellarmine University, Louisville, KY (*poster*)
30. Gabhart, G. 2015. The effects of coal-fired power plants on Ohio River tributaries. Senior Honors Thesis Symposium, Bellarmine University, Louisville, KY
31. Ito, G. 2011. Lake and river water interaction in a Great Lakes river-mouth ecosystem. Undergraduate Research Opportunity Program Research Symposium, University of Michigan, Ann Arbor, MI (*poster*)
32. Ito, G. 2010. Response of wetland plant communities to climate change. Undergraduate Research Opportunity Program Research Symposium, University of Michigan, Ann Arbor, MI (*award for best poster*)

Teaching and Student Mentorship

- 2018-present **Terra Learning Community Instructor**
Bellarmine University
- 2015-present **Academic Advisor for Environmental Majors**
Environmental Studies Department, Bellarmine University
- 2015-present **Honors Thesis Reader**, Bellarmine Honors Program
L. Staples (2023-24), A. Lamb (2019-20), K. Erwin (2018-19), K. Erwin (2018-19), S. Hall (2017-18), K. Wegenast (2016-17), R. Clemons (2015)
- 2013-present **Honors Thesis Advisor**, Bellarmine Honors Program
M. Kontic (2023-24), L. Camba (2023-24), S. Pardieu (2022-23), E. Hernandez (2021-22), E. Crone (2017-18), C. Copler (2016-17), T. McEachern (2016-17), G. Gabhart (2013-14)
- 2013-present **Research Advisor**, Bellarmine University
K. Malloy (2024), E. Donahue (2024), C. Orozco (2023), C. Duncan (2023), M. Masters (2023), J. Ferrell (2022), H. Carter/M. Tori (2022-23),

J. Bailey (2021), M. Holmes (2020), M. Kotarski (2020), C. Combs (2020), C. Waters (2020), J. Glaser (2019-2021), C. Gomez (2019), S. Neupane (2018), N. Goebel (2018), H. Mattingly (2018), E. Brown (2017-2019), D. Ricketts (2017), N. Wilkey (2017), N. Nowacki (2015-16), R. Baskett (2015-16), E. Gilmore (2015), M. Kern (2014), L. Gad (2014), L. Graham (2013-14)

- 2013-present **Professor**, Bellarmine University
Courses: Environmental Science (ENVS 111), Understanding Environmental Systems (ENVS 151), First-Year Focus (BU 100), Becoming a Knight (KNGT 101), Sustainable Development (ENVS 330), Aquatic Ecosystems (ENVS 340), Environmental Internship (ENVS 444), Ecology (ENVS 408), Water and Society (IDC 401), Water: The Last Drop (HONR 401), Independent Research (ENVS 390/420), Environmental Seminar (ENVS 490)
- 2013-2020 **Internship Advisor**, Bellarmine University
N. Wilkey (2020), C. Severance (2019), L. Miles (2017), Z. Laughlin (2017), K. McDermott (2017), E. Crone (2016), A. Adam (2006), J. Dalzell (2016), M. Simms (2015-16), N. Nowacki (2015-16), R. Baskett (2015-16), V. Freter (2015), R. Clemons (2014-15), G. Mican (2014-15), K. Keisker (2014), C. Cornelius (2014)
- 2012-2013 **Professor**, Boston College, Earth & Environmental Sciences Department
Courses: Environmental Systems: Ecosystems (GE 202), Environmental Systems: Water Resources (GE 203), Ecohydrology (GE 420), Senior Environmental Seminar (GE 580)
- 2012-2013 **Undergraduate Academic Advisor**, Environmental Geoscience Majors Boston College, Earth & Environmental Sciences Department
- 2012-2013 **Honors Thesis Advisor**, Boston College, Earth & Environmental Sciences Department (K. Prats)
- 2012-2013 **Undergraduate Research Fellow Advisor**, Boston College, Earth & Environmental Sciences Department (S. Antonelli)
- 2012 **Undergraduate Research and Readings Advisor**, Boston College, Earth & Environmental Sciences Department (E. Idleman)
- 2012-2013 **Graduate Thesis Committee Member**, Boston College, Earth & Environmental Sciences Department (S. Ahmed, B. Hildum, J. Anderson)
- 2012-2013 **Graduate Academic Advisory Committee Member**, Boston College, Earth & Environmental Sciences Department (E. Kristiansen)
- 2011 **Lecturer**, University of Michigan, School of Natural Resources and Environment, Wetland Ecology (NRE 508)
- 2009-2011 **Research Sponsor**, Undergraduate Research Opportunity Program, University of Michigan (G. Ito)

- 2007 **Graduate Student Instructor**, University of Michigan, School of Natural Resources and Environment
 Courses: Field Methods in Fluvial Ecosystems (2007); Fluvial Ecosystems (2006); Rivers, Lakes, and Wetlands (2006); Introduction to Aquatic Ecosystems (2001-02)
- 2001-2009 **Head Coach**
 University of Michigan Women's Ultimate Frisbee Team
- 1997-1998 **Laboratory Assistant**, Carleton College, Geology Department
 Course: Introductory Geology

Recent Professional Development

- 2024 AI Ready – Tools for Personalized Learning, Council of Independent Colleges
 Community-Engaged Scholarship Writing Retreat, Bellarmine University, Enrichment for Mid-Career Faculty Course, Magna Publications
- 2023 Bellarmine Student Success Summit
 Cognitive Coaching™ Foundations Training, Bellarmine University
 Continuing Education Professional Development Summer Program
 Cognitive Coaching™ Workshops, Bellarmine Faculty Development Center
 Association for Environmental Studies and Sciences Climate Fiction Book Club
 Sustainability Tracking, Assessment & Rating System (STARS) Cohort, Association for the Advancement of Sustainability in Higher Education
- 2022 REMOTE Connected Faculty Summit
 Retreat on Inclusive Teaching Practices
 Critical Community Engagement, Indiana Campus Compact
 Community-Engaged Course Design, Indiana Campus Compact
 Universal Design for Learning workshop
 Kentucky Climate Consortium Climate Chat on civil conversations
 Louisville Metro Sustainability Summit
- 2021 REMOTE Connected Faculty Summit
 Bellarmine MLK Day Event
 Bellarmine Faculty Development Workshop: Keeping Creative Energy Going
- 2020 REMOTE Connected Faculty Summit
 Association for the Advancement of Sustainability in Higher Education Conference
 Louisville Sustainability Summit
 NSF RIVER Field study workshop
 Scholarship of Teaching and Learning Conference
 Sustainability Curriculum Consortium webinar
 Bellarmine Reboot Camp

- Bellarmine White Allyship Webinar
- Bellarmine Microaggressions Workshop
- EPIC Supervisor Training
- Constitution Day panel event
- 2019 Ecological Society of America's Earth Stewardship Initiative
- Louisville Sustainability Summit
- NetVUE advising workshop
- Clifton Strengths workshop
- Academic Women's Writing Collective
- Webinars by the National Association of Geoscience Teachers and the Association for the Advancement of Sustainability in Higher Education
- Pedagogical continuing-education workshops at the Ecological Society of America conference
- Council of Independent Colleges (CiC) Chairs Conference

Professional Memberships

- 2023-present Association for the Advancement of Sustainability in Higher Education
- 2015-present Association for Environmental Studies and Sciences
- 2013-present Kentucky Academy of Science
- 2013-2021 National Association of Geoscience Teachers
- 2010-2014 International Association of Great Lakes Research
- 2007-present Geological Society of America
- 2005-present Society of Wetland Scientists
- 2004-2022 American Association for the Advancement of Science
- 1998-2020 Sigma Xi, Scientific Research Society

Certification

- 2011 U. S. Department of Interior Motorboat Operator Certification

Service

Professional

- 2023-present Member, Professional Development Committee, Association for Environmental Studies and Sciences
- 2023 Reviewer, Wisconsin Sea Grant proposals
- 2023 Reviewer, Abstracts for Ecological Society of America Annual Conference
- 2022-present Mentor, Association for Environmental Studies and Sciences
- 2022-2023 Reviewer, University of Wisconsin Water Resources Institute
- 2019 Reviewer, external tenure scholarship portfolio, SUNY Brockport
- 2016 Reviewer, Wisconsin Groundwater Council Research and Monitoring Grant funding proposal
- 2015 Reviewer, Minnesota Sea Grant funding proposal

- 2014-2017 Incoming Chair, Chair, Past-Chair Women in Wetlands Section, Society of Wetland Scientists (SWS)
- 2010-2012 Member, Great Lakes Rivermouths Collaboratory, Great Lakes Commission
- 2009-2011 At-Large Board Member, North Central Chapter, SWS
- 2010-2011 Member, Awards Committee, USGS GLSC
- 2009-2011 Chair, Education and Outreach Committee, North Central Chapter, SWS
- 2009 Reviewer: Ohio Sea Grant funding proposal
- 2008-2011 Treasurer, Rewarding Environment Committee, USGS GLSC
- 2008-present Reviewer: *Journal of Environmental Studies and Sciences*, *Journal of Hydrology*, *Wetlands*, *Journal of Ecology and the Natural Environment*, *Hydrological Processes*, *Hydrobiologia*, *Aquatic Sciences*, *Aquatic Invasions*, *Journal of Hydrometeorology*, *JAWRA*, USGS internal reviews
- 2006-2011 Chair, Bylaws and Standing Rules Committee, North Central Chapter, SWS
- 2006 Book Review: *Rivers and Floodplains*, *Wetlands* 26: 283-286

University

- 2024-present President's Taskforce on Experiential Learning
- 2023-2024 Search committee member, Transfer Advisor
- 2023-2024 Search committee member, Director of Dual Credit and Non-Traditional Transfer Pathways
- 2022-present Peer Coach, Bellarmine Faculty Development Center
- 2022-present Faculty Council representative
- 2022-present Diversity, Equity, and Inclusion Strategic Planning Committee, School of Arts & Sciences
- 2021-present Knight-to-Knight mentor for onboarding new faculty
- 2021-present Faculty Farm Steward, Bellarmine University Farm
- 2021-2023 Co-Chair, Bellarmine Community of Practice in Community Engagement
- 2021-present Co-Chair, Bellarmine University Sustainability Committee
- 2019-present Undergraduate Educational Affairs Committee
- 2019-2022 Website and social media coordinator, Environmental Studies Department
- 2019-2020 Co-Coordinator, Sustainability Taskforce, Bellarmine University
- 2018-2021 Origins Speaker Series Planning Committee
- 2018-2022 Coordinator, Sustainability Lecture Series
- 2017-2021 Book in Common Selection Committee, Bellarmine University
- 2015-2016 Honors Program Review Board, Bellarmine University
- 2015-2016 National Summer Institute on Learning Communities on-campus team, Bellarmine University
- 2014-2022 Honors Council, Bellarmine University
- 2014-2019 Liberal Education Task Force, Bellarmine University
- 2012-2013 Board Member, Environmental Studies Program, Boston College
- 2012-2013 Faculty Advisor, Outdoors Club, Boston College

2012-2013 Faculty Advisor, Net Impact charter chapter, Boston College
2013 Advisory Committee, Sustainability Living-Learning Community, Boston College

Community

2022-present Salt River Watershed Watch volunteer sampler
2021-present Dare-to-Care Food Pantry volunteer
2020-present Common Earth Gardens of Catholic Charities, community-engaged teaching
2017-present Passionist Earth & Spirit Center, community-engaged research
2021-present Olmsted Parks Conservancy, invasive species removal project
2021-2022 Salt River Collaborative
2020-2021 Louisville Community Grocery
2017 Beargrass Creek Consortium
2015 Co-Coordinator, Beargrass Creek Alliance Winter Speaker Event
2014, 2016 Beargrass Creek Alliance Storm Drain Marking Program, community-engaged teaching
2014-2015 Member, Faculty for Social Innovation and Chickasaw Federation Neighborhood Development Planning Committee
2013-present Member, Beargrass Creek Alliance
2004-2005 Volunteer, Huron River Watershed Council