Jo A. Latimore, Ph.D.

Senior Academic Specialist Aquatic Ecology and Outreach Michigan State University Department of Fisheries and Wildlife latimor1@msu.edu, 517-432-1491

Education

Ph.D., Department of Fisheries and Wildlife, Michigan State University, East Lansing, Michigan (2005)

- Dissertation: Habitat selection and resilience of stream fishes in the Red Cedar River watershed, Michigan
- University Distinguished Fellow, USDA National Needs Water Science Fellow

M.S., Department of Biological Sciences, University of Notre Dame, Notre Dame, Indiana (2000)

- Thesis: Impacts of golf course construction and stream diversion on benthic invertebrates and sediment in Juday Creek, Indiana
- NSF Graduate Research Training grantee, University of Notre Dame Schmitt Fellow

B.A., Biology, Albion College, Albion, Michigan (1995)

• Magna cum laude with Honors; Phi Beta Kappa; Albion College Presidential Scholar

Professional Progression

Senior Academic Specialist, Outreach Academic Specialist, Outreach Department of Fisheries and Wildlife, Michigan State University 2018-present 2008-2018

- Serve as a trusted source of lake, stream, and watershed management expertise and outreach to
 communities, agencies, organizations and individuals, with an emphasis on invasive species prevention,
 monitoring, detection, and control.
- Pursue funding and partnerships to continually advance science-based management of Michigan's inland lakes and streams, with an emphasis on invasive species prevention, monitoring, reporting, and control.
- *Major outreach and engagement initiatives:*
 - Lead and provide technical, developmental, and implementation support for the Michigan Clean Water Corps (MiCorps), the state's volunteer lake and stream monitoring program, including program and budget oversight, protocol development, participant training, communications, and data management.
 - Lead and facilitate the Michigan Inland Lakes Partnership, a statewide collaboration of over 20 institutions, agencies, and non-governmental organizations launched in 2008, aimed at advancing stewardship of Michigan's inland lakes. Coordinate biennial Michigan Inland Lakes Convention.
 - O Direct the Michigan Lake and Stream Leaders Institute, an educational program that develops citizen and early career water resources professional leaders to model and promote local stewardship of inland waters; and co-teach Conflict, Collaboration, and Consensus in Natural Resources, a leadership development program for natural resources professionals.
 - Create and implement the State of Michigan's campaign to prevent the introduction of aquatic invasive species through trade pathways (RIPPLE: Reduce Invasive Pet and Plant Escapes).
 - Develop and coordinate statewide boater outreach programs to reduce the spread of aquatic invasive species, including Michigan Clean Boats, Clean Waters and the Mobile Boat Wash program.

Watershed Ecologist 2004-2008

Huron River Watershed Council, Ann Arbor, Michigan

- Provided technical guidance, data management, and volunteer education and training for Adopt-A-Stream volunteer stream monitoring program, involving over 300 volunteers each year in benthic macroinvertebrate sampling and identification, stream habitat assessment, stream flow monitoring, and channel surveying.
- Led, under contract with the Michigan Department of Environmental Quality (MDEQ), the development and implementation team for the Michigan Clean Water Corps (MiCorps), a statewide volunteer stream and lake monitoring network.
- Created an educational workshop for lakefront homeowners on lake-friendly shoreline stewardship practices, involving representatives of government, academia, and the private sector; delivered the workshop at five locations around the Huron River watershed.
- Provided scientific and educational expertise to Council projects, including watershed management plan implementation efforts.
- Grant writing and administration for several local and statewide projects.

Awards and Recognition

Distinguished Academic Staff Award. 2018-19. Michigan State University.

Spirit of ML&SA Award. 2018. In recognition of ten years of outstanding scientific and technical support to the MiCorps Cooperative Lakes Monitoring Program. Michigan Lake and Stream Associations.

USDA ThinkWater Fellow. 2017-18. Development of systems thinking capacity for leading professionals in water education, extension, and outreach.

Leadership and Service Award, North American Lake Management Society. 2017.

Best Non-Student Poster, Aquatic Plant Management Society. 2016.

Distinguished Team State Award, Epsilon Sigma Phi. 2016.

Innovative Program Award, Michigan State University Community and Natural Resources Development Association. 2016.

Emerging Leaders Program, Great Lakes Leadership Academy. 2012.

Emerging Engagement Scholar, National Outreach Scholarship Conference, 2011.

University Distinguished Fellow, Michigan State University. 2000-2005.

National Needs Water Science Fellow, US Department of Agriculture. 2000-2005.

Graduate Research Training grantee, National Science Foundation. 1995-2000.

Schmitt Fellow, University of Notre Dame. 1995-1998.

Phi Beta Kappa, 1995.

Presidential Scholar, Albion College. 1991-1995.

Grants and Contracts

Pending

National Aeronautics and Space Administration. A holistic approach to monitoring inland lake shoreline change and water quality through citizen science, capacity building, and advanced technology. \$260,012. (E. Bunting, E. Theuerkauf, **J. Latimore**, E. Elgin)

National Science Foundation. BII: Integrating eco-evolutionary drivers of biodiversity across scales. \$12,500,500. (P. Zarnetske, K. Cheruvelil, E. Zipkin, J. Robinson, K. Dahlin, G. Bradburd, C. Gries, N. Haddad, M. Weber, F. Janzen, S. Fitzpatrick, M. Meek, B. O'Shea, K. Holekamp, L. Mead, S. Stark, A. Finley, S. Hamilton, C. Kalusmeier, E. Litchman, C. Lindell, J. Latimore, P.-N. Tan, J. Zhou)

Michigan Department of Natural Resources. Status of aquatic macrophytes in Northern Lake Huron and Lake Superior Management Units. \$199,563. (D. Hayes, J. Latimore, E. Elgin)

Great Lakes Fish and Wildlife Restoration Act. Protecting fish and waterfowl habitat from aquatic invasive plant species. \$270,000. (T. Newcomb, C. Baugher, R. Fahlsing, D. Hayes, J. Latimore, E. Elgin)

<u>Active</u>

Michigan Department of Environment, Great Lakes, and Energy. PI. 2020-2025. Michigan Clean Water Corps (MiCorps) program administration. \$1,901,342. (J. Latimore, E. Elgin)

- Michigan Department of Environment, Great Lakes, and Energy (Prime: US Fish and Wildlife Service). 2020-2021.

 A comparison of heated/pressurized boat washes and waterless boat cleaning stations for AIS [aquatic invasive species] prevention. \$33,159. (J. Latimore)
- Michigan Department of Natural Resources. 2020-2023. Impediments to behavioral change to minimize spread of invasive species. \$203,000. (D. Hayes, **J. Latimore**, M. Gore)
- Michigan Department of Natural Resources. 2019 2022. Ripple II: Education about invasives in aquarium and pond trade. \$260,230. (**J. Latimore**)
- Michigan Department of Environment, Great Lakes, and Energy (Prime: US Fish and Wildlife Service). 2019-2021. Educating boaters and other groups to prevent the introduction and spread of AIS [aquatic invasive species]. \$215,628. (J. Latimore)
- Montana State University (Prime: Michigan Department of Natural Resources). 2018-2021. Identifying high-risk hybrid Eurasian watermilfoil genotypes to improve control. \$371,300 (MSU Subaward \$13,300). (R. Thum, **J. Latimore**, J. McNair, E. Elgin, S. Parks)
- USDA Forest Service. 2014-2023. MSU Aquatic Invasive Species Education Partnership. \$194,123. (**J. Latimore**) Michigan Department of Environmental Quality. 2013-2021. Aquatic invasive species education. \$243,082. (**J. Latimore**)

Complete

- US Department of Agriculture. 2018-2019. ThinkWater II: Growing knowledge to solve water problems Integrating systems thinking into water resource outreach in Michigan \$45,000. (**J. Latimore**, E. Elgin, L. Wolfson)
- Michigan Department of Natural Resources. 2016-2019. RIPPLE: Statewide education about invasives in aquarium and pond trade. \$138,314. (J. Latimore)
- North Central Region Water Network. 2016. Establishing an Aquatic Invasive Species Working Group for the North Central Region Water Network. \$9060. (T. Campbell, **J. Latimore**)
- Michigan State University Science and Society at State (S3). 2016. Innovations in science communication and engagement: Exploring how better training can improve outcomes for science and society. \$10,000. (J. Latimore, J.P. Burroughs, K.S. Cheruvelil, E.A. Dreelin, M.K. Halpern and S.G. Nichols)
- Michigan Department of Agriculture and Rural Development. 2014-2015. Aquatic invasive organisms in trade education. \$73,998. (J. Latimore)
- Michigan Department of Agriculture and Rural Development. 2013. Aquatic invasive plant identification training for state agency staff. \$2561. (J. Latimore)
- US Environmental Protection Agency. 2012-2014. Environmental DNA monitoring for high risk invasive species. \$600,000. (S. Hashsham, E. Dreelin, **J. Latimore**, R. Stedtfeld, R.J. Stevenson)
- Michigan Department of Environmental Quality. 2012. Aquatic invasive plant identification training for state agency staff. \$4840. (**J. Latimore**)
- Michigan State University Extension, Professional Reinvestment Fund. 2011. The MSU Extension inland lakes program: Critical updates to curricula, materials, and delivery methodologies. \$15,000. (**J. Latimore**, B. Bhakta, J. Herbert, L. Wolfson)
- U.S. Environmental Protection Agency, Great Lakes Restoration Initiative. 2010-2012. A comprehensive regional public outreach campaign on AIS [aquatic invasive species]. \$1,555,235. (D. Jensen, **J. Latimore**, et al.)
- U.S. Environmental Protection Agency, Great Lakes Restoration Initiative. 2010-2014. Mounting a rapid response to invasive plants. \$300,000. (P. Higman, S. Campbell, D. Hyde, J. Latimore)
- Michigan State University, Center for Water Sciences. 2009. Impacts of large-capacity groundwater withdrawal on lake and wetland ecosystems: Michigan lakes as a model for conducting research to inform policy of water withdrawals. \$10,000. (P. Soranno, **J. Latimore**)

University Courses Taught

- "Science Communication, Outreach, and Engagement" Advanced Topics (FW 891). 2016 (new course). Course co-developer and student project mentor. Michigan State University. 2 credits.
- "Telling Your Story: Communicating Your Research to Diverse Audiences" Graduate Seminar (FW 893). 2015. (new course). Co-instructor. Michigan State University. 1 credit.
- Aquatic Entomology (ENT 422). 2013. Instructor. Michigan State University. 4 credits (lecture & laboratory).
- "Effective Outreach and Engagement in Fisheries and Wildlife" Graduate Seminar (FW 893). 2012. (new course). Co-instructor. Michigan State University. 1 credit.
- Aquatic Ecosystem Management (FW 414). 2010, 2011. Instructor. Michigan State University. 3 credits.

Peer-reviewed Publications

- **Latimore, J.A.**, and C.S. Lowry. *In review*. Citizen science, crowdsourcing, and social media advancing our understanding and conservation of inland waters. In Encyclopedia of inland waters, 2nd ed. Elsevier.
- Bleitz, M., **J.A. Latimore**, and K. Walters. *In review*. A comparison of boat cleaning systems: Invasive species removal, boater outreach and engagement, and cost. Lake and Reservoir Management.
- Huizenga, E., E.S. Huff, A.L. Dowtin, and **J.A. Latimore**. *In review*. Untapped potential: Do stakeholders value forests for providing clean drinking water? Journal of the American Water Resources Association.
- Thum, R., G. Chorak, R. Newman, J. Eltawely, **J.A. Latimore**, E.L. Elgin, and S. Parks. 2020. Genetic diversity and differentiation in populations of invasive Eurasian (Myriophyllum spicatum) and hybrid (Myriophyllum spicatum × Myriophyllum sibiricum) watermilfoil. Invasive Plant Science and Management 13:59-67. doi: 10.1017/inp.2020.12
- Poisson, A., I. McCullough, P.A. Soranno, K.S. Cheruvelil, K. Elliott, and **J.A. Latimore**. 2019. Quantifying contributions of citizen-science to broad-scale ecological databases. Frontiers in Ecology and the Environment. doi: 10.1002/fee.2128
- Soranno, P.A., ... J.A. Latimore, and 78 others. 2017. LAGOS-NE: A multi-scaled geospatial and temporal database of lake ecological context and water quality for thousands of U.S. lakes. Gigascience 6(12). doi: 10.1093/gigascience/gix101
- Williams, M., R.D. Stedtfeld, C. Engle, P. Salach, U. Fakher, T. Stedtfeld, E. Dreelin, R.J. Stevenson, **J. Latimore**, & S.A. Hashsham. 2017. Isothermal amplification of environmental DNA (eDNA) for direct field-based monitoring and laboratory confirmation of Dreissena sp. PLOS ONE 12(10): e0186462. doi: 10.1371/journal.pone.0186462
- Wolfson, L., A. Lewandowski, J. Bonnell, J. Frankenberger, F. Sleeper, and **J. Latimore**. 2015. Developing capacity for local watershed management: Essential leadership skills and training approaches. Journal of Contemporary Water Research & Education. 156:86-97.
- **Latimore, J.A.**, E.A. Dreelin, and J.S. Burroughs. 2014. Outreach and engagement education for graduate students in natural resources: course development and experiential learning. Journal of Higher Education Outreach and Engagement 18(3):129-154.
- **Latimore**, **J.A.**, and P.J. Steen. 2014. Integrating freshwater science and local management through volunteer monitoring partnerships: The Michigan Clean Water Corps. Freshwater Science 33(2):686-692.
- Latimore, J.A. and D.B. Hayes. 2008. The vigor-organization-resilience concept of ecological health: lessons from temperate warmwater stream fish communities. Pp. 1807-1813 in J. Nielsen, J. Dodson, K. Friedland, T. Hamon, N. Hughes, J. Musick, and E. Verspoor, eds. Proceedings of the Fourth World Fisheries Congress: Reconciling Fisheries with Conservation. American Fisheries Society, Symposium 49, Bethesda, MD.
- **Latimore**, **J.A.** and R. Lawson. 2007. Importance of quality assurance planning for long-term monitoring programs: the volunteer monitoring experience. Water Resources Impact 9(5):25-26.
- Moerke, A.H., K.J. Gerard, **J.A. Latimore**, R.A. Hellenthal, and G.A. Lamberti. 2004. Restoration of an Indiana, USA, stream: bridging the gap between basic and applied lotic ecology. Journal of the North American Benthological Society: Vol. 23, No. 3, pp. 647–660.

Popular articles and reports

- Michigan State University Extension News Articles
 - Filice, P. and J. Latimore. 2020 (July 28). Appreciate your lake.
 - Elgin, E. and J. Latimore. 2020 (April 15). Michigan's 2020 citizen science lake monitoring program.
 - Latimore, J.A. 2019 (December). MSU Extension hires new water resources educator.
 - Latimore, J.A. and E.L. Elgin. 2019 (June). Explore the rarely seen world of freshwater plants!
 - Elgin, E.L. and J.A. Latimore. 2019 (February). From lake and stream user to lake and stream leader.
 - Symanski, A., & Latimore, J.A. 2018 (July). <u>Celebrate Lakes Appreciation Month by committing to learn</u> more about Michigan's lakes.
 - Latimore, J.A. 2018 (July). Alien-looking blob discovered in southern Michigan lake.
 - **Latimore**, **J.** 2016, April 19. Looking forward to a great summer on your lake? Get ready at the Michigan Inland Lakes Convention.
 - **Latimore, J.A.**, and A. DePalma-Dow. 2016 (March). Exotic Aquatic Plant Watch helps volunteers detect invasive species in Michigan inland lakes.
 - Latimore, J.A., & Scheer, L. 2015 (September). <u>Using road stream crossing surveys to understand creek</u> health.
 - **Latimore**, J. 2013 (March 5). Michigan Lake and Stream Leaders Institute builds local stewardship statewide.
 - Latimore, J. 2012 (June 11). <u>Clean Boats, Clean Waters program prevents spread of aquatic invasive species.</u>
- Filice, P.C. and J.A. Latimore. 2020 (July). Appreciate your lake! Oakland lakefront Lifestyles Magazine.
- Steen, P., Knoll-Wilmes, M., and **J.A. Latimore**. 2020. <u>Cooperative Lakes Monitoring Program 2019 Annual Summary.</u> Michigan Clean Water Corps (MiCorps). 20 pp.
- Steen, P., Knoll-Wilmes, M., and **J.A. Latimore**. 2019. <u>Cooperative Lakes Monitoring Program 2018 Annual Summary</u>. Michigan Clean Water Corps (MiCorps). 20 pp.
- **Latimore**, **J.A.** 2018 (September, 6). Working together for healthy lakes. The MiCorps Blog. Michigan Clean Water Corps (MiCorps).
- Vandermuelen, J., J. Perrino, and **J. Latimore**. 2018 (Mar 23). Why it's time to clean, drain, and dry. <u>Article</u> and <u>video</u>. Nature Change.
- Kirkwood, J., & **J.A. Latimore**. 2018 (January, 22). <u>There's something fishy in those plants</u>. The MiCorps Blog. Michigan Clean Water Corps (MiCorps).
- Steen, P., Knoll-Wilmes, M., and **J.A. Latimore**. 2018. <u>Cooperative Lakes Monitoring Program 2017 Annual Summary</u>. Michigan Clean Water Corps (MiCorps). 22 pp.
- Filice, P.C., & Latimore, J.A. 2017 (June). <u>Partnering with pet and pond businesses to prevent aquatic invasive species</u>. IEEE Earthzine.
- Steen, P., Knoll Wilmes, M., and **J.A. Latimore**. 2017. <u>Cooperative Lakes Monitoring Program 2016 Annual Summary.</u> Michigan Clean Water Corps (MiCorps). 17 pp.
- DePalma-Dow, A., and **J.A. Latimore**. 2016 (February 18). <u>Great expectations for the 2016 Exotic Aquatic Plant</u> Watch! The MiCorps Blog. Michigan Clean Water Corps (MiCorps).
- Steen, P., Knoll Wilmes, M., and **J.A. Latimore**. 2016. <u>Cooperative Lakes Monitoring Program 2015 Annual Summary</u>. Michigan Clean Water Corps (MiCorps). 16 pp.

- Filice, P.C., & J.A. Latimore. 2015. Aquatic invasive organisms in trade marketing and outreach plan for RIPPLE (Reduce Invasive Pet and PLant Escapes). Michigan State University. 28 pp.
- Bednarz, R., H. Wandell, P. Steen, **J. Latimore**, and W. Dimond. 2015. Cooperative Lakes Monitoring Program Program Manual. Michigan Department of Environmental Quality, MI/DEQ/WRD-15/004.
- Steen, P., Knoll Wilmes, M., and **J.A. Latimore**. 2015. <u>Cooperative Lakes Monitoring Program 2014 Annual Summary</u>. Michigan Clean Water Corps (MiCorps). 14 pp.
- **Latimore, J.A.,** P. Steen, & W. Dimond. 2014. Cooperative Lakes Monitoring Program 2013 Annual Report. Michigan Department of Environmental Quality, MI/DEQ/WRD-14/013.
- **Latimore**, **J.A.**, P. Steen, & W. Dimond. 2013. Cooperative Lakes Monitoring Program 2012 Annual Report. Michigan Department of Environmental Quality, MI/DEQ/WRD-13/007.
- Deer Lake Property Owners Association. 2012. Onsite training for identification and mapping of aquatic plants of Michigan lakes. (Video with narration and instruction by **J.A. Latimore**). 21 minutes.
- **Latimore, J.A.,** P. Steen, & W. Dimond. 2012. Cooperative Lakes Monitoring Program 2011 Annual Report. Michigan Department of Environmental Quality, MI/DEQ/WRD-12/014.
- **Latimore**, **J.** 2011. What does Secchi disk transparency tell us about the health of a lake? The Michigan Riparian, Fall 2011.
- **Latimore**, **J.A.** 2011 (Spring). Clean Boats, Clean Waters: Take action to reduce the spread of aquatic invasive species. Lake Effect. Michigan Chapter, North American Lake Management Society.
- **Latimore**, **J.A.** 2010 (Fall). The Michigan Inland Lakes Partnership a new collaboration for Michigan's inland lakes. The Michigan Riparian.
- **Latimore**, **J.** 2007 (Summer). Citizen science: Adopt-A-Stream volunteers keep watch over the 'shed. Huron River Report, Huron River Watershed Council, Ann Arbor, MI.
- **Latimore**, **J.** 2007 (Winter). Seeking the elusive stonefly: Unusual winter insects reveal stream health. Huron River Report, Huron River Watershed Council, Ann Arbor, MI.
- **Latimore**, **J.** 2006 (Fall). Going against the flow: Steelhead and Chinook salmon run in the Huron. Huron River Report, Huron River Watershed Council, Ann Arbor, MI.
- **Latimore**, **J.** 2006 (Fall). Models to the rescue: A valuable tool for watershed protection. Huron River Report, Huron River Watershed Council, Ann Arbor, MI.

Outreach and Engagement Programming

Multi-year programs: Active

- Facilitation of community action around aquatic invasive species in Lake and Manistee counties. (2019-present). Facilitation of community leaders to determine preventative action; contribution of survey data; and leveraging of financial resources and expertise to realize community goals.
- <u>Michigan Lake and Stream Leaders Institute</u>. (2008-present). Director. Multi-session intensive stewardship development program.
- <u>Michigan Inland Lakes Partnership</u>. (2008 present). Coordinator. Statewide collaboration of institutions, agencies, and non-governmental organizations aimed at advancing stewardship of Michigan's inland lakes.
- <u>Michigan Inland Lakes Convention</u>. (2014, 2016, 2018, 2020) Coordinator. Biennial conference hosted by the Michigan Inland Lakes Partnership.
- <u>Introduction to Lakes Online Course</u>. (2015, 2016, 2018, 2019, 2020, 2021). Co-developer/co-instructor. 6-week online course for MSU Extension.
- <u>RIPPLE: Reduce Invasive Pet and PLant Escapes</u>. (2014-present). Co-developer/co-instructor. Statewide outreach campaign stopping invasive species introductions from the aquarium and water garden hobbies.
- Mobile Boat Wash Program. (2014-present). Director. Aquatic invasive species outreach to boaters.
- Michigan Clean Water Corps (MiCorps). Program coordinator (2020-present); Technical support and volunteer trainer (2008-present). Statewide volunteer program, including the Cooperative Lakes Monitoring Program, Volunteer Stream Monitoring Program, and Volunteer Stream Cleanup Program.

Multi-year programs: Past

- Conflict, Collaboration & Consensus in Natural Resource Issues. (2013-2017). Co-instructor. Multi-session workshop for natural resources professionals. Michigan State University Extension.
- Clean Boats, Clean Waters. (2010-2012). Program coordinator. Aquatic invasive species education for boaters and volunteers. Michigan Sea Grant.
- Other selected guest lectures and programs for non-academic audiences (*Invited)
- *Latimore, J.A. 2020 (Dec. 3). Implementing an effective and sustainable citizen science program. Annual Meeting, Michigan Vernal Pool Partnership. Online.
- *Latimore, J.A. 2020 (Oct. 14). Aquatic invasive species: Prevention, early detection, and rapid response. Michigan Lakes and Stream Association, Region 3 Fall Meeting. Online.
- *Latimore, J.A. 2020. (Sept. 23). The fascinating lives of aquatic insects. Volunteer stream monitoring workshop, The Watershed Center Grand Traverse Bay and Tip of the Mitt Watershed Council. Online.
- **Latimore, J.A.**, and E.L. Elgin. 2020 (Aug. 6). Exotic Aquatic Plant Watch: Midsummer check-in for experienced participants. Michigan State University. 20 participants.
- **Latimore, J.A.**, and E.L. Elgin. 2020 (July 15). Exotic Aquatic Plant Watch: Midsummer check-in for new participants. Michigan State University. 9 participants.

- *Latimore, J.A., M. Guthard, and K. Walters. 2020 (June 1). Running a mobile boat wash program to prevent aquatic invasive species. Tip of the Mitt Watershed Council, Petoskey, MI. Online.
- *Latimore, J.A. 2020 (May 23). Aquatic plants: Michigan's underwater forests. Protecting Our Lakes & Shorelines: Seminar Series, Grand Traverse Conservation District. Online.
- **Latimore**, **J.A.**, and E.L. Elgin. 2020 (March 27). Exotic Aquatic Plant Watch and Secchi disk volunteer training. Michigan Lakes and Streams Association. 55 participants.
- *Latimore, J.A., and E.L. Elgin. 2020 (February 20). Aquatic plant identification: Tips for the field. Michigan Aquatic Managers Association, Lansing, MI. 100 participants.
- *Latimore, J.A. 2019 (October 25). Inland lake and stream monitoring: Benefits and opportunities for public engagement. Freshwater Summit, Watershed Center Grand Traverse Bay, Traverse City, MI.
- **Latimore, J.A.**, and E.L. Elgin. 2019 (October 16) Getting to know your waters: Monitoring and aquatic plants. Aquatic Workshop, Benzie Conservation District, Benzonia, MI. 40 participants.
- *Latimore, J.A. 2019 (August 30). Lake ecology and management. Board Meeting, Walloon Lake Association and Conservancy, Walloon Lake, MI.
- *Latimore, J.A., and E.L. Elgin. 2019 (August 7-8). Aquatic plant identification (short course). Kellogg Biological Station, Hickory Corners, MI. 20 participants.
- *Latimore, J.A. 2019 (July 20) Spider Lake, Grand Traverse County: Lake management and citizen science. Annual Meeting, Spider Lake Property Owners Association, Traverse City, MI.
- **Latimore**, **J.A**., and E.L. Elgin. 2019 (June 29). Lake ecology and aquatic plants: Workshop and luncheon. Manistee Conservation District, Bear Lake, MI. 57 participants.
- *Latimore, J.A. and E.L. Elgin. 2019 (May 9) Aquatic invasive species: Who's that knocking on our door? Aquatic Invasive Species Discussion, Watersmeet Lakeguards/Invasive Species Control Coalition of Watersmeet, Land o' Lakes, WI.
- *Latimore, J.A. 2018 (Nov 20). Taking a watershed perspective. (Keynote speaker) Annual meeting, Benzie Conservation District, Beulah, MI.
- **Latimore**, **J.A.** 2018 (August 11). Aquatic Plants of Spider Lake. Spider Lake Property Owners' Association, Traverse City, MI. 20 participants.
- **Latimore**, **J.A.** 2018 (July 28). Benzie Water Tour Little Platte Lake. Benzie Conservation District. 45 participants.
- **Latimore, J.A.**, and E.L. Elgin. 2018 (July 11-12). Aquatic Plant Identification Short Course. Michigan Wetlands Association. 25 participants.
- *Latimore, J.A. 2017. (Oct 23) Mobile Boat Wash program. Webinar Approaches to Watercraft Inspection and Decontamination Programs, Invasive Mussel Collaborative.
- *Latimore, J.A. 2017 (Sept 10) Healthy forests, healthy streams. Annual Meeting, Michigan Forest Association, Tawas City, MI.
- *Latimore, J.A. 2017 (Aug 5). Protecting Michigan lakes and rivers from invasive species. K-12 Summer Institute, Kellogg Biological Station, Michigan State University, Hickory Corners, MI.

- *Latimore, J.A. 2017 (June 20). State uses of volunteer monitoring data Michigan. National Water Quality Monitoring Council webinar.
- *Latimore, J.A. 2016 (Dec. 5). Michigan Inland Lakes Partnership: Promoting collaboration to advance stewardship of Michigan's inland lakes. Michigan Invasive Species Coalition, Annual Meeting. Gaylord, MI.
- **Latimore**, **J.A.** and E. Elgin. 2016 (Nov. 2). Plants of Michigan's Lakes and Streams. Michigan Clean Water Corps (MiCorps), Annual Conference, Tustin, MI.
- *Latimore, J.A. 2016 (Aug. 20). Michigan's aquatic invasive species. Green and Duck Lakes Association, Annual Meeting. Interlochen, MI.
- *Latimore, J.A. 2016 (Jul. 17). Prevention and management of aquatic invasive species. Gull Lake Quality Organization, Annual Meeting. Richland, MI.
- **Latimore**, **J.A.** 2014. Dos and don'ts of presenting data to lay audiences. Michigan Clean Water Corps (MiCorps) Annual Conference, Oct. 27-28, Roscommon, MI.
- *Latimore, J.A. 2013. Aquatic invasive species: What's here? What's close? What can we do? Stewardship Network webcast, June 12, 2013.
- *Latimore, J.A. 2012. Clean Boats, Clean Waters; preventing the spread of aquatic invasive species. Freshwater Summit, Traverse City, Michigan.
- *Latimore, J. 2012. Impacts of dams on our waterways. Quiet Water Symposium, East Lansing, Michigan.
- *Latimore, J.A. 2012. Have you seen me? Meet the latest invasive weeds to menace Michigan's lakes. Michigan Lake and Stream Associations, Regional Fall Seminar, Tipton, Michigan.
- *Latimore, J.A. 2012. Aquatic invasive species update. Higgins Lake Awareness Day, Higgins Lake Foundation, Roscommon, Michigan.
- Steen, P. and **J. Latimore**. 2012. 38 years of volunteer monitoring on Michigan's inland lakes: What have we learned from the Cooperative Lakes Monitoring Program? Michigan Lake and Stream Associations, Annual Conference, Boyne Falls, Michigan.
- *Latimore, J.A. 2011. Science and stewardship: inspiring public engagement in aquatic resource monitoring, research, and management. NOAA Northwest Fisheries Science Center, Monster Seminar Jam series, Seattle, Washington.
- *Latimore, J.A. 2011. Science and stewardship: inspiring public engagement in natural resource monitoring, research, and management. US Fish and Wildlife Service, Washington Office, Lacey, Washington.
- *Latimore, J.A. 2009. Michigan's new water withdrawal law and potential for volunteer monitoring. Michigan Clean Water Corps (MiCorps) Annual Conference, Roscommon, Michigan.
- *Latimore, J.A. 2008. Making a difference: What you can do to protect your local waters. Keynote Address, Freshwater Summit 2008, Traverse City, MI.

Selected presentations and guest lectures for academic audiences and conferences (*Invited)

- *Latimore, J. 2021 (February 24) Using social media in science communication: Tips for developing your #scicomm strategy. The Practice of Fisheries and Wildlife Outreach and Engagement (FW895), Michigan State University.
- *Latimore, J.A. 2021 (Feb. 19). Public participation in science: A pathway to conservation? Conservation Seminar Series, University of Minnesota.
- *Latimore, J.A. 2021 (Feb. 10). Volunteer monitoring of Michigan's lakes and streams. Guest lecture, Freshwater Conservation (BIO 3970), Central Michigan University.
- *Filice, P.C., and **J.A. Latimore**. 2021 (Feb. 5). Virtual presentation skills. Fisheries and Wildlife Graduate Student Organization, Michigan State University.
- *Latimore, J.A. 2020 (Dec. 2). Developing an online presence (workshop). Fisheries and Wildlife Graduate Student Organization, Michigan State University.
- Filice, P.C., and **J.A. Latimore**. 2020 (Nov. 5). Preventing aquatic invasive species introductions through retailer engagement. Upper Midwest Invasive Species Conference. Online.
- Bleitz, M., **J.A. Latimore**, and K. Walters. 2020 (Nov. 4). A comparison of watercraft decontamination methods: Invasive species removal, boater outreach, and cost. Upper Midwest Invasive Species Conference. Online.
- Thum, R., G. Chorak, R. Newman, **J.A. Latimore**, and E. Elgin. 2020 (Nov. 2). Integrating genetics and herbicide studies to improve watermilfoil management outcomes. Upper Midwest Invasive Species Conference. Online.
- Bednarz, R., J.A. Latimore, and P. Steen. 2020 (Nov.). Michigan inland lakes shorelines: The good, the bad, and the ugly. North American Lake Management Society Annual Symposium. Online.
- Filice, P. C., and **J.A. Latimore**. 2020 (Oct. 8). Reducing aquatic invasive species introductions in Michigan through pet and garden retailer engagement. Annual Conference, North American Invasive Species Management Association. Online.
- Crick, J.R., P.J. Higman, **J.A. Latimore**, Y.M. Lee, G.L. Peterson, L.M. Rowe, and A.R. Warwick. 2020 (Oct.). Promoting citizen science across Extension to increase value and public engagement. Fall Extension Conference, Michigan State University Extension. Online. 60 participants.
- Bleitz, M., K. Walters, and **J.A. Latimore**. 2020 (Sept. 18). A comparison of watercraft decontamination methods: Invasive species removal, boater outreach, and cost. Michigan Inland Lakes Convention, Michigan Inland Lakes Partnership. Online.
- Filice, P. C., and **J.A. Latimore**. 2020 (Sept. 18). Empowering pet and garden retailers to protect Michigan lakes from aquatic invasive species. Michigan Inland Lakes Convention, Michigan Inland Lakes Partnership. Online.
- **Latimore**, **J.A.**, E.L. Elgin, R. Thum, and S. Parks. 2020 (Sept. 18). Incorporating citizen science in a study of invasive watermilfoil. Michigan Inland Lakes Convention, Michigan Inland Lakes Partnership. Online.
- **Latimore**, **J. A**. 2020 (Sept. 17). Facebook use by lake associations: Social media trends and tips. Michigan Inland Lakes Convention, Michigan Inland Lakes Partnership. Online.

- Thum, R. A., G.M. Chorak, **J.A. Latimore**, and E.L. Elgin. 2020 (Sept. 17). Integrating genetics and herbicide studies to improve watermilfoil management outcomes. Michigan Inland Lakes Convention, Michigan Inland Lakes Partnership. Online.
- Latimore, J.A., and E.L. Elgin. 2020 (Sept. 16). Aquatic plant identification (workshop). Michigan Inland Lakes Convention, Michigan Inland Lakes Partnership. Online.
- *Latimore, J.A. 2020 (Sept. 11) Engaging the public in lake and stream monitoring and conservation. FW894, MSU Department of Fisheries and Wildlife, East Lansing, MI.
- *Latimore, J.A. 2020 (April 2). Introduction to Lakes: An online course about lake ecology and management. Wisconsin Lakes and Rivers Convention, Wisconsin Lakes Partnership. Online.
- *Latimore, J. 2020 (Feb. 19). Using social media in science communication: Tips for developing your #scicomm strategy. The Practice of Fisheries and Wildlife Outreach and Engagement (FW895), Michigan State University, East Lansing, MI.
- **Latimore, J.A.,** B.R. Bhakta, E.L. Elgin, P.C. Filice, and L.G. Wolfson. 2019 (Nov. 12) Introduction to Lakes Online: A new approach to increasing public understanding of lake ecology and management. Annual Symposium, North American Lake Management Society, Burlington, VT.
- *Latimore, J.A. 2019 (Sept. 27) Engaging the public in lake and stream monitoring and conservation. FW894, MSU Department of Fisheries and Wildlife, East Lansing, MI.
- Hopfensperger, K., R. Bixby, A. Burdett, **J.A. Latimore**, E. Moody, and K. O'Reilly. 2019 (Aug.). The ripple effect of public engagement within the Society for Freshwater Science. Ecological Society of America Annual Meeting, Louisville, KY.
- **Latimore, J.A.** and P.C. Filice. 2019 (May 23) Knowledge, perceptions, and behaviors of retailers regarding aquatic invasive species from the pet and water garden trade. Society for Freshwater Science Annual Meeting, Salt Lake City, UT.
- **Latimore, J.A.**, A. De Palma-Dow, E.L. Elgin, P.C. Filice, and K. Walters. 2019 (May 21) Prevention, detection, and management of aquatic invasive species through public engagement and citizen science. Society for Freshwater Science Annual Meeting, Salt Lake City, UT.
- *Latimore, J. 2019 (Apr. 17) Citizen science and public participation in scientific research. The Practice of Fisheries and Wildlife Outreach and Engagement (FW895), Michigan State University.
- Thum, R.A., G.M. Chorak, R. Newman, J. Eltawely, **J.A. Latimore**, E.L. Elgin, J. McNair, and S. Parks. 2019 (Feb. 27) Management implications of genetic similarity and differentiation of Eurasian and hybrid watermilfoil in Michigan and Minnesota lakes. Midwest Aquatic Plant Management Society Annual Meeting, Chicago, IL.
- *Latimore, J.A. 2019 (Feb. 20) Using social media in science communication: Tips for developing your #scicomm strategy. The Practice of Fisheries and Wildlife Outreach and Engagement (FW895), Michigan State University, East Lansing, MI.
- **Latimore**, **J.A.**, and K. Walters. 2018 (Oct. 17). Five years of voluntary boat washing programs in Michigan: Successes and challenges. Upper Midwest Invasive Species Conference, Rochester, MN.
- Filice, P.C., and **J.A. Latimore**. 2018 (Oct. 15). Engaging pet and water garden retailers to reduce aquatic invasive species Introductions. Upper Midwest Invasive Species Conference, Rochester, MN.

- **Latimore, J.A.** and K. Walters. 2018 (Oct. 5). Five years of voluntary boat washing programs in Michigan: Successes and challenges in invasive species prevention. Michigan Inland Lakes Convention, Grand Rapids, MI.
- **Latimore, J.A.**, P.C. Filice, G.L. Peterson, and E.S. Huff. 2018 (Sept. 28) What is MSU Extension, anyway? And what's in it for us? Graduate Student Organization Seminar Series, Department of Fisheries and Wildlife, Michigan State University, East Lansing, MI.
- *Latimore, J.A. 2018 (Aug. 22). Aquatic Plant Identification. Fisheries and Wildlife Club, Michigan State University. 15 participants.
- *Latimore, J.A., 2018 (Aug. 15). Science communication and engagement: Effective approaches that benefit researchers, stakeholders, and our shared water resources. (Seminar speaker). Annis Water Resources Institute, Grand Valley State University, Muskegon, MI.
- Filice, P.C., and **J.A. Latimore**. 2018 (May 22) Utilizing outreach to reduce invasive species from the pet and garden trade. Annual Meeting, Society for Freshwater Science, Detroit, MI.
- **Latimore**, J.A., B.R. Bhakta, E.L. Elgin, J. Kirkwood, P.J. Steen and M.K. Wilmes. 2018 (May 21). Protecting inland lake nearshore habitat through education, engagement, and citizen science in Michigan, USA. Annual Meeting, Society for Freshwater Science, Detroit, MI.
- Bhakta, B.R., **J.A. Latimore**, E.L. Elgin, P.C. Filice, T.L. Gibb, G.A. Shelle, L.G. Wolfson, and J.M. Herbert. 2018 (Apr. 29). Online learning to increase stakeholder understanding of and engagement in freshwater management. Conference, Association of Natural Resource Extension Professionals, Biloxi, MS.
- Filice, P.C. and **J.A. Latimore**. 2018 (Apr. 29) Partnering to prevent invasive species from aquariums and water gardens in Michigan. Conference, Association of Natural Resource Extension Professionals, Biloxi, MS.
- Peterson, G.L., B.R. Bhakta, M.D. Schira, J.R. Crick, Y.M. Lee, D.A. Hyde, **J.A. Latimore**, and P.J. Higman. 2018 (Apr. 29) Sorting out citizen science meanings, motives, and messages. Conference, Association of Natural Resource Extension Professionals, Biloxi, MS.
- *Latimore, J.A. 2018 (Apr. 18). Citizen science and public participation in scientific outreach. (Guest lecture) The Practice of Fisheries and Wildlife Outreach and Engagement (FW895), Michigan State University, East Lansing, MI.
- *Latimore, J.A. 2018 (Mar. 21) ThinkWater: The case of the New Zealand mudsnail. ThinkWater to Think:X: The 2018 Systems Thinking Symposium, ThinkWater/Cornell University, Washington, DC.
- *Latimore, J.A. 2018 (Feb. 22). Using social media in science communication: Tips for developing your #scicomm strategy. (Guest lecture) The Practice of Fisheries and Wildlife Outreach and Engagement (FW895), Michigan State University, East Lansing, MI.
- **Latimore**, **J.A.** 2017 (Oct. 24). Citizen science: Promoting community collaboration and engagement for enduring impact. Fall Extension Conference, Michigan State University Extension, Detroit, MI.
- Filice, P.C., and **J.A. Latimore**. 2017 (Oct. 23) Addressing aquatic invasive species introductions from aquariums and water gardens using outreach and retailer inquiry in Michigan, USA. International Conference on Aquatic Invasive Species, Invasive Species Centre, Fort Lauderdale, FL.
- **Latimore, J.A.**, B. Bhakta, E. Elgin, P. Filice, T. Gibb, J. Herbert, G. Shelle, and L. Wolfson. 2017 (June 7). An online approach to increasing stakeholder understanding of freshwater science and management. Annual Meeting, Society for Freshwater Science, Raleigh, NC.

- **Latimore**, **J.A.**, P. Steen, and J. Kirkwood. 2017 (May 19) Score the shore: Citizen-generated data empowers communities to protect and restore lake habitat. Citizen Science Association conference, St. Paul, MN.
- De Palma-Dow, A., and **J.A. Latimore**. 2017 (Mar. 4) Development and enhancement of the Michigan invasive aquatic plant citizen monitoring program. Symposium Citizen Science for Conservation in Southern California, Aquarium of the Pacific, Long Beach, CA.
- **Latimore, J.A.**, and A. De Palma-Dow. 2017 (Jan. 15) Exotic Aquatic Plant Watch: Lessons learned in the development of a volunteer monitoring program for invasive plants. The Current Webinar Series, North Central Region Water Network.
- *Latimore, J.A. 2017 (Jan. 5) Communication is critical: Linking water research, management, and policy through outreach and engagement. Water@Wayne Seminar Series, Division of Research, Wayne State University, Detroit, MI.
- *Latimore, J.A. 2016 (Dec. 1). Volunteer monitoring of Michigan's inland lakes. Guest lecture, Aquatic Ecosystem Management (FW414), Michigan State University, East Lansing, MI.
- Filice, P., and **J.A. Latimore**. 2016 (Oct. 18). RIPPLE: Michigan's campaign to reduce aquatic invasive species escapes from pet and pond trades. Upper Midwest Invasive Species Conference, LaCrosse, WI.
- De Palma-Dow, A., M. Williams, and **J.A. Latimore**. 2016 (Oct. 18). Starry stonewort wars: Using DNA technology to address identification challenges faced by lake monitoring volunteers and professionals. Upper Midwest Invasive Species Conference, LaCrosse, WI.
- *Latimore, J.A. 2016 (Sept. 12). Lake and stream monitoring in Michigan the Michigan Clean Water Corps. Guest lecture, Introduction to Freshwater Studies, Northwestern Michigan College. Traverse City, MI.
- *Latimore, J.A. 2016 (Sept. 7). Lake and stream monitoring in Michigan. Guest lecture, Introduction to Freshwater Studies, Northwestern Michigan College. Traverse City, MI.
- *Latimore, J.A. 2016 (Aug. 25). How citizen science programs can lead to engaged communities and sustainable socioecological systems. Community and Natural Resources Development Association Retreat:

 Sustainability: A Systems Approach to Our Work. MSU Extension Community and Natural Resources Development Association, Tustin, MI.
- De Palma-Dow, A., M. Williams, E. Elgin, and **J.A. Latimore.** 2016 (Jul. 18). Starry stonewort wars: using DNA technology to address identification challenges faced by lake monitoring volunteers and professionals. Aquatic Plant Management Society, Annual Meeting, Grand Rapids, MI. *Winner, Best Non-Student Poster Award*
- *Latimore, J.A., and P.J. Steen. 2016 (May 22). Score the Shore: Development of a shoreline habitat assessment protocol for a volunteer lake monitoring program. Society for Freshwater Science, Annual Meeting. Sacramento, CA.
- *Latimore, J.A. 2016 (Apr. 4). Fisheries careers. Guest lecture, Fisheries Management (FW 479), Michigan State University, East Lansing, MI.
- *Latimore, J.A. 2016 (Apr. 1). Moving from monitoring to management: volunteer monitoring success stories. Wisconsin Lakes Convention, Wisconsin Lakes Partnership, Stevens Point, WI.
- *Latimore, J.A. 2016 (Mar. 4). Fisheries and wildlife careers. Guest lecture, Undergraduate Seminar in Fisheries and Wildlife (FW 293), Michigan State University, East Lansing, MI.
- *Latimore, J.A. 2016 (Feb. 16). Lentic ecology: Lakes, ponds, & impoundments. Guest lecture, Water Resource Management (ESA 324), Michigan State University, East Lansing, MI.

- De Palma-Dow, A., and **J.A. Latimore**. 2016 (Jan. 25). Exotic Aquatic Plant Watch: Development of a volunteer monitoring program for invasive species in Michigan Lakes. Midwest Fish and Wildlife Conference, Grand Rapids, MI.
- De Palma-Dow, A., and **J.A. Latimore**. 2016. Exotic Aquatic Plant Watch: Development of a volunteer monitoring program for invasive species in Michigan Lakes. Aquatic Plant Management Society, Annual Meeting, Grand Rapids, MI.
- **Latimore, J.A.**, E.A. Dreelin, and J.S. Burroughs. 2015. Outreach and engagement education for fisheries graduate students: Developing a course to enrich a graduate outreach requirement. American Fisheries Society Annual Meeting, Portland, OR.
- **Latimore**, **J.A.** and A. Burdett. 2015. The future of public participation in freshwater research: opportunities and challenges. Society for Freshwater Science Annual Meeting, Milwaukee, WI.
- **Latimore**, **J.A.** and A. De Palma-Dow. 2015. Exotic Aquatic Plant Watch: Development of a volunteer monitoring program for invasive species in Michigan lakes. Citizen Science Association Annual Conference, Feb. 11-12, San Jose, California.
- **Latimore**, **J.A.**, and L.G. Wolfson. 2014. Developing local leaders for aquatic ecosystem conservation. Joint Aquatic Sciences Meeting, Portland, Oregon.
- Kronlein, M., **J. Latimore**, S. Hashsham, E. Dreelin, and R.J. Stevenson. 2014. Early detection of aquatic invasive species using eDNA technology: How MiCorps volunteers can help. Michigan Inland Lakes Convention, Boyne Falls.
- Kronlein, M., R. Stedtfeld, E. Dreelin, **J. Latimore**, R.J. Stevenson, and S.A. Hashsham. 2013. Environmental DNA (eDNA)-based monitoring of invasive species using microfluidic chips, Gene-Z, and isothermal amplification. American Society of Microbiology General Meeting, Denver, Colorado.
- *Latimore, J.A. and P.J. Steen. 2012. Integrating freshwater science and local management through collaborative partnerships. Annual Meeting, Society for Freshwater Science, Louisville, Kentucky.
- **Latimore**, **J.A.** 2012. Development of a statewide volunteer monitoring program for aquatic invasive species: Challenges and lessons learned in Michigan. National Water Quality Monitoring Conference, Portland, Oregon.
- **Latimore**, **J.A.** 2010. The Michigan Inland Lakes Partnership: promoting collaboration to advance stewardship statewide. Wisconsin Lakes Convention, Wisconsin Lakes Partnership, Green Bay, Wisconsin.
- *Latimore, J.A. 2009. Volunteer monitoring data: An untapped resource for large scale assessments and ecosystem management. Annual Meeting of the North American Benthological Society, Grand Rapids, Michigan.

Internal Service (Michigan State University)

Training coordinator. Dealing effectively with harassment in the field. Department of Fisheries and Wildlife, Michigan State University. In partnership with MSU's Prevention, Outreach, and Education Department and Rec Sports. (2018-present)

Member, Strategic Planning Committee, Department of Fisheries and Wildlife (2019-20)

Member, Strategic Plan Implementation Committee, Department of Fisheries and Wildlife (2020)

Chair, Communications Committee (ad hoc), Department of Fisheries and Wildlife (2019-20)

Chair, Department of Fisheries and Wildlife Advisory Committee (Elected) (2020-present)

Member, Department of Fisheries and Wildlife Advisory Committee (Elected) (2018-20)

Co-Leader, Natural Resources Work Team, Michigan State University Extension (2019-present)

Member, Academic Specialist Advisory Committee (Elected) (2013-16)

Member, Website Update Committee (ad hoc), Department of Fisheries and Wildlife (2014-15)

Chair/Member, Search Committees, Michigan State University Extension (multiple, 2016-present)

External Service (Reviewer, Societies, etc.)

Expert witness. State of Michigan, Michigan Administrative Hearing System. Aquatic invasive species impacts and spread via boating activity. (2021)

Expert External Stakeholder, Research Needs Assessment. Minnesota Aquatic Invasive Species Research Center, University of Minnesota (2020).

Member, Planning Committee. Joint Aquatic Sciences Meeting 2022. (2019-present).

Member, Education and Outreach Team (2017-present; Chair: 2017-20; Science and Data Team liaison: 2020-present) and State Contact (2004-present), Midwest Glacial Lakes Fish Habitat Partnership

Manuscript Reviewer, Academic Journals and Programs (American Midland Naturalist, Environmental Management, Freshwater Science, Frontiers in Ecology and the Environment, Lake and Reservoir Management, Limnology and Oceanography Bulletin, University of Wisconsin Sea Grant Institute, Michigan State University Extension)

Grant Proposal Reviewer (Midwest Glacial Lakes Partnership, Michigan State University Extension, Michigan Department of Natural Resources, Michigan State University, Wayne State University, Maryland Sea Grant)

Member, Michigan's Water Resources Conservation Advisory Council, an advisory body to the state legislature (Governor's appointee) (2008-09)

Member, Public Information and Publicity Committee, Society for Freshwater Science (2015-19)