

CURRICULUM VITAE

MEIYIN WU

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Education History

Ph.D. 1999. Environmental & Natural Resource Sciences, Washington State University, Pullman, WA.
M.S. 1995. Environmental Science, Washington State University, Pullman, WA.
B.S. 1991. Natural Resource Science, Chinese Cultural University, Taipei, Taiwan

Academic Employment

2014-present. Professor, Department of Biology, Montclair State University, Montclair, NJ.
2019-present. Director, New Jersey Center for Water Science and Technology, Montclair State University, Montclair, NJ.
2016-present. Director, Water Analysis Laboratory (NJDEP Laboratory Certification # 07105), Montclair State University, Montclair, NJ.
2011-present. Doctoral Faculty, Environmental Science and Management Doctoral Program, Montclair State University, Montclair, NJ.
2012-2019. Director, Passaic River Institute, Montclair State University, Montclair, NJ.
2009-2014. Associate Professor, Department of Biology and Molecular Biology, Montclair State University, Montclair, NJ.
2006-2009. Associate Professor, Center for Earth and Environmental Science, State University of New York at Plattsburgh, Plattsburgh, NY.
2000-2006. Assistant Professor, Center for Earth and Environmental Science, State University of New York at Plattsburgh, Plattsburgh, NY.

Research Awards, Contracts and Grants

2024-2025 Musconetcong Watershed Association, "Watershed Management Plan Development for the Musconetcong Watershed in Hunterdon County in Support of the Highlands Regional Master Plan Goals. (\$64,900). M. Wu, PI.
2024-2024. Nokia Solutions and Networks Oy. "Cyanobacteria identification in water" (\$14,000). M. Wu, PI.
2023-2024. Eastern Research Group, "CyanoHAB Monitoring Campaign" (\$35,000).
2023-2025. National Science Foundation, "MRI: Track 1: Acquisition of a Gas Chromatography-Mass Spectrometer for Advancing Research and Education at Montclair State University." (\$192,114). J. Catalano, N. Hirscher, J. Gao, N. Goodey, M. Wu, PI.
2023-2026 New Jersey Department of Environmental Protection. "2022 Greenwood Lake Restoration Program" (\$1,000,000). PI: Greenwood Lake Commission. MSU PI: M. Wu
2023-2024 Readington Township, New Jersey. "Microbial source tracking of Raritan River at

- Readington Township, New Jersey". (\$10,000). M. Wu.
- 2022-2024 National Oceanic and Atmospheric Administration, "The *Traveling HAB Lab*: Empowering Citizen Scientists to Protect the State's Water Resources". (\$400,000). M. Wu, PI.
- 2022-2023 Musconetcong River Watershed Association, "Environmental DNA analysis of fish communities in the Musconetcong River Watershed." (\$38,000). M. Wu, D. Hsu, M.S. Schuler and D.M. Bobo, PIs.
- 2022-2023. New Jersey Water Resource Research Institute, "Employing environmental DNA to investigate seasonal dynamics of harmful algal blooms for New Jersey drinking water sources." (\$20,000) D. Hsu and M. Wu, PIs.
- 2022-2023. United State Geological Survey, "Application of novel approaches to monitor harmful algal blooms in a coastal New Jersey system to identify the factors that affect HAB production and the downstream transport of cyanobacteria and associated cyanotoxins from freshwater to marine environments." H. Heckathorn, A. Boetsma, P. Reilly, L. Feinson, J. Adolf, M Wu, R. Newby, and R. Schuster, PIs.
- 2022-2023. Delaware River Basin Commission. "Tracking sources of bacteria for the Delaware River". (\$43,200). M. Wu, PI.
2022. New Jersey American Water, "Harmful algal blooms in New Jersey American Water's source waters". (\$27,000). M. Wu.
- 2021-2023. National Science Foundation, "Acquisition of a High-Resolution Accurate-Mass Orbitrap LC-MS System at Montclair State University." (\$450,000). J. Gao, Y. Deng, N. Goodey, D. Rotella, M. Wu, PI.
- 2021-2023. United State Geological Survey, "Additional analyses to further evaluate the production, persistence and potential downstream transport of cyanobacteria and cyanotoxins in the Raritan Basin Water Supply Complex, New Jersey". H. Heckathorn, P. Reilly, L. Carper, A. Boetsma, M Wu, H. Desko, K. Clonan, R. Newby, and R. Schuster, PIs.
- 2021-2022. New Jersey Department of Environmental Protection, "Data to Action: tracking sources of bacteria in the Musconetcong Watershed to guide water quality restoration and protection actions". (\$353,000). M. Wu, PI. N. Lawler, L. Lee, D. Hsu, Co-PI.
- 2021-2022 Musconetcong River Watershed Association, "Tracking sources of bacteria in the Musconetcong River Watershed." (\$25,000). M. Wu.
- 2020-2021 Musconetcong River Watershed Association, "Tracking pathogen sources for Musconetcong River." (\$20,000). M. Wu.
- 2020-2022 United State Geological Survey, "Downstream fate and transport of cyanobacteria and cyanotoxins in the Raritan Basin Watershed, New Jersey". P. Reilly, H. Heckathorn, H. Desko and M. Wu, PIs.
- 2020-2021. New Jersey Water Supply Authority. "Harmful Algal Blooms Ecological Services". (\$28,585). M Wu.
2019. Greenwood Lake Environmental Commission. "Environmental Assessment of Greenwood Lake". (\$7,750). M. Wu.
- 2018-2020. New York and New Jersey Harbor and Estuary Program, "Stopping trash where it starts". (\$19,000). M Wu.
- 2018-2020. National Science Foundation, "MRI: Acquisition of a Dynamic Imaging Particle Analyzer for Characterization of Particulate Matters in Engineered and Natural Water Systems at Montclair State University." (\$192,212). Y. Deng and M. Wu, PI.

- 2018-2020. New Jersey Department of Environmental Protection, “Cyanobacteria State Occurrence and Distribution Study.” (\$10,000). M. Wu.
- 2018-2021. New Jersey Department of Environmental Protection, “Connecting Habitat Across New Jersey Assessments.” (\$30,000). M. Wu, PI.
- 2018-2019 Musconetcong River Watershed Association, “Tracking pathogen sources for Musconetcong River.” (\$9,800). M. Wu.
- 2018-2021. Delaware River Research Fund, “Revisiting Musconetcong River after 10 Years of Restoration Efforts”. (\$340,000) M. Wu, PI. N. Lawler, J. Miller, L. Lee, A. Hunt, Co-PI.
- 2018-2019. Taiwan Ministry of Science and Technology, “Analysis of sources of new types of aquatic algal neurotoxins BMAA, DAB, an AEG and their oxidation treatment”. (\$51,724) T. Lin, PI. M. Wu, Co-PI.
- 2018-2019. New Jersey Department of Environmental Protection, “Habitat Suitability of the Musconetcong River for American Shad.” (\$2,000). M. Wu, PI. K. Zerbe, Co-PI.
- 2018-2019 New Jersey Resource, Conservation and Development Council, Inc. Implementation of the Musconetcong River Watershed Restoration Plan. (\$16,915). M Wu, PI.
- 2017-2018 Musconetcong River Watershed Association, “Tracking pathogen sources for Musconetcong River.” (\$16,800). M. Wu, PI. L. Lee, Co-PI.
- 2017-2018 Essex County, New Jersey, “Develop a Geodatabase for Essex County New Jersey.” (\$2,169). M. Wu, PI. A. Ferdinand, Co-PI.
- 2017-2018. New Jersey Department of Environmental Protection, “Evaluating the success and monitoring the usage of wildlife crossing structures.” (\$1,500). M.Wu, PI. N. Nicole Bergen, Co-PI.
- 2016-2018 New England Interstate Water Pollution Control Commission, “Stopping trash where it starts”. (\$67,692). A. Giudicelli, PI. M Wu, Co-PI.
- 2016-2017 Musconetcong River Watershed Association, “Tracking pathogen sources for Musconetcong River.” (\$24,000). M. Wu, PI. L. Lee, Co-PI.
- 2016-2018 U.S. Environmental Protection Agency. “Developing a wetland baseline at the watershed scale”. (\$126,958). B. Hazen, NJDEP Project Management, M. Wu, PI. M. Weinstein, Co-PI
- 2016-2017 Fluid Imagine Technologies, Inc. Evaluating an Algae Counting and Identification System, FlowCam Cyano. (\$5,000). M. Wu, PI.
- 2016 Township of Montclair, “Pathogen monitoring”. (\$7,320). M. Wu, PI. L. Lee, Co-PI.
- 2015-2016 Musconetcong River Watershed Association, “Tracking pathogen sources for Musconetcong River.” (\$14,400). M. Wu, PI. L. Lee, Co-PI.
- 2015-2016 Wildlife Management Institute, “Establishing a crossing assessment program in New Jersey”. (\$20,000). M.Wu, PI. N. Sherwood, Co-PI.
- 2015-2016 New Jersey Department of Environmental Protection, “Assessment of the first herpetofauna tunnels in New Jersey.” (\$3,500). M.Wu, PI. N. Sherwood, Co-PI.
- 2014-2015 Musconetcong River Watershed Association, “Tracking pathogen sources for Musconetcong River.” (\$20,800). M. Wu, PI. L. Lee, Co-PI.
- 2014-2015 Lake Hopatcong Foundation, “Lake Hopatcong Sediment Phosphorus Study”. (\$15,932). M. Wu, PI. K. Olsen, Co-PI.
- 2014-2015 New York-New Jersey Harbor & Estuary Program, “The Third River Study for Pathogen Indicators.” (\$24,938). M. Wu, PI. L. Lee, Co-PI.
- 2014-2015 U.S. National Park Service, “Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology.” (\$17, 892). M. Wu, PI.
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- 2013-2014 New Jersey Department of Environmental Protection, “Strategies for Flood Risk Reduction for Vulnerable Coastal Populations along Hackensack River at Moonachie and Little Ferry and along Hudson River at Hoboken and Jersey City.” (\$219,661). Q. Guo, PI. M. Wu, R. Prezant, J. Galster, C. Alo, R. Miskewitz, Co-PI.
- 2013-2014 New Jersey Department of Environmental Protection, “Improving permeability of wildlife habitats in NJ through culvert and landscape assessments.” (\$3,500). M. Wu, PI. K. Triece, Co-PI.
- 2013-2014 New Jersey Department of Environmental Protection, “Environmental Education; wildlife habitat permeability on urban landscape.” (\$3,500). M. Wu, PI. J. Triece and N. Sherwood, Co-PIs.
- 2013-2014 New Jersey Water Resource Research Institute, “Mercury transport in aquatic food web”. (\$5,000). N. Sherwood, P.I. M. Wu, Co-PI.
- 2012-2014. PSEG-ISS. “Improving permeability for terrestrial Wildlife in New Jersey.” (\$30,000). M. Wu, PI. B. Zarate, G. Fowles, Co-PIs.
- 2010-2014. Department of Interior, Environmental Protection Agency Great Lakes Restoration Initiative, “Ultrasound technology for ship ballast water treatment.” (\$673,530). M. Wu, PI. J. Wu and A. Cangelosi, Co-PIs.
- 2010-2013. National Science Foundation. “Collaborative research: Greenhouse gas balance of urban temperate wetlands.” (\$299,685). Karina Schaffer, M. Wu, Gil Bohrer, William Mitsch PIs.
- 2010-2014. National Science Foundation. “REU site: Transdisciplinary environmental science research on forest lakes in northwest New Jersey.” (\$390,320). M. Wu, PI.
- 2011-2012 New Jersey Department of Environmental Protection, “Status of the common snapping turtles in New Jersey: sustainability assessment.” (\$3,500). M. Wu, PI.
- 2011-2012 New Jersey Department of Environmental Protection, “Status of the common snapping turtles in New Jersey: assessment of human consumption safety.” (\$3,500). M. Wu, PI. P. Weis, Co-PI.
- 2008-2010. U.S. Environmental Protection Agency. “Develop a wetland monitoring program and an invasive species management plan for the Au Sable River watershed.” (\$150,498). M. Wu, PI.
- 2007-2008. State University of New York Presidential Research Award. “Invasive plant identification and management in the Adirondack Park, NY.” (\$4,515). M. Wu, PI. Christine Johnson, co-PI.
- 2005-2005. Lake Champlain Sea Grant. “Feasibility study of ultrasound application for water chestnut (*Trapa natans* L.) management in Lake Champlain.” (\$107,431). M. Wu, PI. Junru Wu, co-PI.
- 2004-2006. U.S. Environmental Protection Agency. “A volunteer wetland monitoring program and invasive species management plan for the Boquet River watershed.” (\$155,960). M. Wu, PI.
- 2004-2006. U.S. Fish and Wildlife Service. “Wildlife habitat enhancement at Lake Alice Management Area.” (\$46,980). M. Wu, PI.
- 2002-2004. National Science Foundation. “Ecosystem-level processes in oligotrophic pine barrens ecosystems: baselines for comparisons with productive ecosystems.” (\$143,686) Dave Franzi and Tim Mihuc, PIs, Kenneth Adams, Robert Fuller, Edwin Romanowicz, co-PIs.

- 2002-2003. Environmental Protection Agency. “Brownfields and exotic species: what local governments need to know.” (\$5000). M. Wu, PI. Catherine Joyce, co-PI.
- 2002-2003. Environmental Protection Agency. “Acid rain and exotic species: a workshop for north country teachers.” (\$5000). M. Wu and Catherine Joyce, co-PI.
- 2001-2003. Great Lake Research Consortium. “Ecosystem consequence of purple loosestrife invasion on freshwater cattail wetlands and its impacts on interspecific competition.” (\$21,375) Weizin Zhu, co-PI.
- 2001-2002. State University of New York Presidential Research Award “Diversity affects nitrogen removal efficiency in constructed wetlands.” (\$2,815). M. Wu, PI.
- 2001-2002. Lake Champlain Research Institute. “Habitat Competition between *Phragmites australis*, a Non-indigenous Species, and *Typha latifolia*, a Native Species.” M. Wu, PI.

Environmental Education Awards and Grants

- 2024-2026. The Landsberger Foundation. The Eco-Explorers Program. (\$80,000).
- 2024-2025. Anonymous. The Eco-Explorers Program. (\$75,000).
- 2023-2024. Anonymous. The Eco-Explorers Program. (\$75,000).
- 2023-2024. The Landsberger Foundation. The Eco-Explorers Program. (\$40,000).
- 2022-2023. Anonymous. The Eco-Explorers Program. (\$21,600).
- 2022-2023. The Landsberger Foundation. The Eco-Explorers Program. (\$40,000).
- 2022-2023. Anonymous. The Eco-Explorers Program. (\$57,000).
- 2022-2023. Anonymous. The Travel HAB Lab. (\$15,561).
- 2021-2022. The Landsberger Foundation. The Eco-Explorers Program. (\$40,000).
- 2021-2022. Anonymous. The Eco-Explorers Program. (\$30,000).
- 2021-2022. Victoria Foundation. The Eco-Explorers Program. (\$15,000).
- 2020-2021. The Travel HAB Lab. The Hyde and Watson Foundation. (\$10,000).
- 2020-2021. Anonymous. The Eco-Explorers Program. (\$75,000).
- 2020-2021. The Travel HAB Lab. New Jersey American Water. (\$10,000).
- 2020-2021. The Landsberger Foundation. The Eco-Explorers Program. (\$40,000).
- 2020-2021. Victoria Foundation. The Eco-Explorers Program. (\$15,000).
- 2019-2020. The Landsberger Foundation. The Eco-Explorers Program. (\$40,000).
- 2019-2020. Victoria Foundation. The Eco-Explorers Program. (\$30,000).
- 2018-2019. The Landsberger Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$30,000).
- 2018-2019. The PSEG Foundation. (\$15,000)
- 2018-2019. Victoria Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$15,000).
- 2017-2018. The Landsberger Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$20,000).
- 2017-2018. Victoria Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$15,000).
- 2017-2018. The PSEG Foundation. (\$15,000)
- 2017-2018. Investors Bank Charitable Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$5,000).
- 2017-2018. Covanta Essex Company. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$2,000).

- 2016-2017. Victoria Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$15,000).
- 2016-2017. The PSEG Foundation. (\$15,000)
- 2016-2017. Covanta Essex Company. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$2,000).
- 2016-2017. The Landsberger Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$20,000).
- 2016-2017. TD Bank Charitable Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$10,000).
- 2015-2016. Investors Bank Charitable Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$2,500).
- 2015-2016. The Landsberger Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$20,000).
- 2015-2016. TD Bank Charitable Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$10,000).
- 2015-2016. Victoria Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$15,000).
- 2015-2016. Covanta Essex Company. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$1,000).
- 2014-2015. The PSEG Foundation. (\$20,000)
- 2014-2015. The Landsberger Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$20,000).
- 2014-2015. Victoria Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$12,500).
- 2014-2015. Investors Bank Charitable Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$1,000).
- 2014-2013. TD Bank Charitable Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$10,000).
- 2014-2013. Covanta Essex Company. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$5,000).
- 2013-2012. The PSEG Foundation. (\$20,000)
- 2013-2012. The Landsberger Foundation. Environmental Education. (\$5,000).
- 2013-2012. Hyde and Watson Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$10,000).
- 2013-2012. TD Bank Charitable Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$10,000).
- 2013-2012. The Landsberger Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$12,000).
- 2013-2012. Covanta Essex Company. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$5,000).
- 2013-2012. Investors Bank Charitable Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$5,000).
- 2013-2012. Victoria Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$12,500).
- 2012-2011. Victoria Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$12,500).
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- 2012-2011. Investors Bank Charitable Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$5,000).
- 2012-2011. Covanta Essex Company. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$5,000).
- 2012-2011. The Landsberger Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$15,000).
- 2012-2011. TD Bank Charitable Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$10,000).

Patents

- Apparatus and Method for Ultrasound Treatment of Aquatic Organisms (U.S. Patent 7799233). Co-Inventor: Junru Wu.
- Apparatus and Method for Ultrasound Treatment of Aquatic Organisms (U.S. Patent 8062587 B2). Co-Inventor: Junru Wu.
- Apparatus and Method for Ultrasonic Treatment System for Ballast Water Management (U.S. Patent 9174189 B2). Co-Inventor: Junru Wu.

Published Refereed Articles

- Clonan, K.R. M. Wu, P. Reilly, H. Heckathorn, H. Desko, B. Schuster, E. Ernst, R. Newby, A. Hurley, A. Rossi. (in review) Downstream transport of cyanobacteria in the Raritan River Basin. *Science of the Total Environment*.
- Hsu, Y.D. Acosta Caraballo, Y., M. Wu. (2024) An investigation of cyanobacteria, cyanotoxins and environmental variables in selected drinking water treatment plants in New Jersey. *Heliyon*. <https://doi.org/10.1016/j.heliyon.2024.e31350>
- Li, B., K. Serrano, M. Mazzarro, M. Wu, W. Wang, M. Zhu. (2023). Identification of cyanobacteria for harmful algal blooms research using the YOLO framework. 2023 IEEE 14th Annual Ubiquitous Computing, Electronics & Mobile Communication Conference (UEMCON), New York, NY, USA, 2023, pp. 0407-0415. doi:10.1109/UEMCON59035.2023.10316078.
- Acosta Caraballo, Y., M. Wu. 2023. Summer phytoplankton assemblages and harmful cyanobacterial blooms in freshwaters of New Jersey. *Northeastern Naturalist*, 30(3): 269-294. <https://doi.org/10.1656/045.030.0301>.
- Hsu, T.D., D. Yu, M. Wu. 2023. Predicting fecal indicator bacteria using spatial stream network models in a mixed land use suburban watershed in New Jersey, USA. *International Journal of Environmental Research and Public Health* 20: 4743. <https://doi.org/103390/ijerph20064743>.
- Rossi, A., M. Wu, B. Wolde, K.W., Zerbe, T.D. Hsu, A. Giudicelli, R. Da Silva. 2023. Understanding the Factors Affecting the Quantity and Composition of Street Litter: Implication for Management Practices. *Heliyon* Mar 15;9(3): e14245. doi:10.1016/j.heliyon.2023.e14245. PMID: 36967913; PMCID: PMC10036511.
- Pallis, T., S. Domber, R. Bousenberry, R. Filo, K. S. Walz, B. Henning, Y. A. Caraballo and M. Wu. 2022. Springs of New Jersey, Open-File Report 21-3. New Jersey Department of Environmental Protection, Trenton, NJ. 283 pages. <https://www.nj.gov/dep/njgs/pricelst/ofreport/ofr21-3.pdf>
- Mazzaro, M., M. Wu. 2022. The Traveling HAB Lab: Empowering Citizen Scientists to Protect New Jersey's Water Resources. *The Nor'easter* 1: 11-12.

- Hillenbrand, M., M. Wu, S. Braeuer, W. Goessler, X. Li. 2021. Trace Element Accumulation in Two Turtle Species, *Malaclemys terrapin* and *Chelydra serpentina*, in New Jersey, USA. Biol Trace Elem Res. <https://doi.org/10.1007/s12011-021-02786-z>
- Beck, S., M. Wu. 2021. Effects of *Microcystis aeruginosa* on New Jersey aquatic benthic macroinvertebrates. Advances in Microbiology 11(3): 165-180. doi: [10.4236/aim.2021.113012](https://doi.org/10.4236/aim.2021.113012).
- Hunt, A. M. Wu, D. Hsu, N. Roberts-Lawler, J. Miller, A. Rossi, and L. Lee. 2021. Picking up where the TMDL leaves off: Using the Partnership Wild and Scenic River framework for collaborative river restoration. Sustainability 13, 1878. <https://www.mdpi.com/2071-1050/13/4/1878>
- Acosta Caraballo, Y. M. Wu, and S. Domber. 2020. Macroinvertebrate assemblages in selected New Jersey springs. Northeastern Naturalist 27(2):242-262.
- Rossi, A., B.T. Wolde, L. Lee & M. Wu. 2020. Prediction of recreational safety of the Passaic and Pompton Rivers, New Jersey using *Escherichia coli* as an indicator. Science of the Total Environment 716 Article 136814. <https://doi.org/10.1016/j.scitotenv.2020.136814>
- Hsu, T.D., L. Lee, A. Rossi, A. Yussof, N. Lawler, M. Wu. 2019. Evaluating microbial water quality and potential sources of fecal contamination in the Musconetcong River Watershed in New Jersey, U.S.A. Advances in Microbiology 9(4): 385-397.
- Sherwood, N. M. Wu, P. Weis. 2018. Mercury contamination in diamondback terrapins in New Jersey. Environmental Management 62 (4): 756-765.
- Deng, Y. M. Wu, H. Zhang, L. Zheng, Y. Acosta, and T. Hsu. 2017. Addressing harmful algal blooms (HABs) impacts with Ferrate (VI): simultaneous removal of algal cells and toxins for drinking water treatment. Chemosphere 186:757-761.
- Yu, Q., F. Gallagher, Y. Deng, M. Wu, and H. Feng. 2017. Risk assessment and interpretation of heavy metal contaminated soils on an urban brownfield site in New York metropolitan area. Environmental Science Pollution Research 24(30): 23549-23558.
- Yu, Q., H. Feng, F. Gallagher, Q. Zhu, M. Wu, C. Liu, K. Jones, and R. Tappero. 2015. Synchrotron Study of Metal Localization in *Typha latifolia* L. Root Sections. Journal of Synchrotron Radiation, 22:1459-1468.
- Chu, T, M. Wu, L. Pohren, B. Hagjoo, C. Soman, L. Lee. 2014. Molecular identification of a fungal pathogen Batrachochytrium dendrobatidis and its impact on amphibians in urban landscaping districts of New Jersey. Journal of Advances in Microbiology, 4: 1164-1173.
- Wu, M. 2014. Potential of *Typha* as plant candidate for sludge treatment wetlands. GSTF Journal of BioSciences, 3(1): 21-33.
- Lee, L., M. Wu, A. Peri, and T. Chu. 2014. Method evaluations for *Escherichia coli* and coliforms detection in Northern New Jersey Water Bodies. GSTF Journal of BioSciences, 3(1): 40-45.
- Wu, M., D. Kalma, and C. Treadwell. 2014. Differential assessment of designations of wetland status using two delineation methods. Journal of Environmental Management 54 (1): 23-29.
- Yu, Q., F.J. Gallagher, H. Feng, M. Wu, and Q. Zhu. 2014. Vanadium uptake and translocation in dominant plant species on an urban coastal brownfield site. Science of the Total Environment 476-477: 696-704.
- Wu, M. 2013. Challenges in managing a river on the urban landscape. Proceedings of the Cross-Strait Conference on Water Resources. D97-103.

- Lee, L., M. Wu, and T. Chu. 2013. Identification and quantification of *Escherichia coli* and coliforms in Northern New Jersey bodies of water. Proceedings of the Cross-Strait Conference on Water Resources. D171-178.
- Wu, M. and D. Kalma. 2013. A comparative study of wetland vegetation in the Ausable and Boquet River watersheds. Northeast Naturalist 20(2): 229-254.
- Sherwood, N. and M. Wu. 2012. Habitat preference by wood turtles (*Glyptemys insculpta*). Bulletin New Jersey Academy of Science 57(1): 5-7.
- Feng, H., Y. Qian, F.J. Gallagher, M. Wu, W. Zhang, L. Yu, Q. Zhu, K. Zhang, C. Liu, R. Tappero. 2012. Lead accumulation and association with Fe on *Typha Latifolia* root from an urban brownfield site. Environmental Science and Pollution Research 20: 3743-3750.
- Qian, Y., F. J. Gallagher, H. Feng, M. Wu 2012. A geochemical study of toxic metal translocation in an urban brownfield wetland. Environmental Pollution 166:23-30.
- Wu, M., D. Kalma, and C. Treadwell. 2009. Assessing hydrology, vegetation, and soil characteristics of Adirondack wetlands. Journal of Ecological Restoration 27(4): 396-397.
- Wu, M. and D. Kalma. 2009. Invasive and non-native species in a small New England watershed. Journal of Ecological Restoration 27(2): 14-15.
- Wu, M. 2009. Wetland destruction, loss and restoration. In: Jiangou Wu (ed.), Lectures in Modern Ecology (IV): 192-215.
- Wu, M. and J. Wu. 2007. In-vitro investigations on ultrasonic control of water chestnut. Journal of Aquatic Plant Management 45:76-83.
- Wu, M. 2007. Invasive plant management in freshwater ecosystems. In: Jiangou Wu (ed.), Lectures in Modern Ecology (III): Advances and Key Topics: 328-343.
- Wu, M. and K. B. Adams. 2007. Creation of Interconnected Potholes in a Cattail Marsh to Enhance Bird Habitat. Journal of Ecological Restoration 25(2): 134-135.
- Wu, M. and J. Wu. 2007. Can ultrasound eradicate water chestnuts? Journal of Ecological Restoration 25(1): 64-65.
- Wu, J., and M. Wu. 2006. Feasibility study of effect of ultrasound on water chestnuts. Journal of Ultrasound in Medicine and Biology 32(4): 595-601.
- Ruppel, R.E., K.E. Setty, M. Wu. 2004. Decomposition Rates of *Typha* spp. in Northern Freshwater Wetlands over a Stream-Marsh-Peatland Gradient. Scientia Discipulorum 1: 26-37.
- Wu, M., E. H. Franz, and S. Chen. 2002. Atmospheric oxygen diffusion rates in constructed wetlands. In C. Nehring and S. Brauning (eds), Wetlands & Remediation 2: 289-294.
- Wu, M., E. H. Franz, and S. Chen. 2001. Quantify oxygen fluxes and ammonia removal efficiencies in constructed wetlands. Journal of Water Environment Research 73 (6): 661-666.
- Wu, M., E. H. Franz, and S. Chen. 2000. *Spartina pectinata*: a candidate plant species of constructed treatment wetlands. In: Means, J.L. and Hinchey R.E. (eds.). Wetlands & Remediation 1:133-139.
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- Hsu, D., Y. Acosta-Caraballo, M. Wu. An investigation of cyanobacteria, cyanotoxins and environmental variables in selected drinking water treatment plants in New Jersey. The 12th U.S. Symposium on Harmful Algae, Portland, ME. October 27-November 1, 2024.
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- Li, B., K. Serrano, M. Mazzarro, M. Wu, W. Wang, M. Zhu. Identification of cyanobacteria for harmful algal blooms research using the YOLO framework. 2023 IEEE 14th Annual Ubiquitous Computing, Electronics & Mobile Communication Conference, New York, NY. October 12-14, 2023.
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- Reilly, P. H. Heckathorn, K. Clonan, H. Desko, M. Wu, J. Cohl, B. Bjorklund, L. Carper, M. Hillenbrand, D. Hsu, M. Mazzarro, A. Hurley, R. Schuster, R. Newby, E. Ernst. Downstream fate and transport of cyanobacteria and cyanotoxins in the Raritan Basin Water Supply Complex, New Jersey. The 13th National Monitoring Conference, Virginia Beach, VA. April 24-28, 2023.
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- Acosta Caraballo, Y., M. Wu. Phytoplankton Assemblages in Selected Freshwaters of New Jersey. The 11th US Symposium on Harmful Algae, Albany New York. October 23-28, 2022.
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- M. Wu, D. Hsu, A. Rossi, L. Lee, N. Lawler. Revisiting the Musconetcong River after ten years. The 12th National Monitoring Conference. April 19-23, 2021.
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- Hillenbrand, M., M. Wu, W. Goessler, X. Li. Trace Element Accumulation and Distribution in Two Turtle Species, *Malaclemys terrapin* and *Chelydra serpentina* in New Jersey, USA. The 12th National Monitoring Conference. April 19-23, 2021.
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- Miller, J., A. Hunt, M. Wu. Community Engagement Along the Musconetcong River: Bacteria, River Restoration, and Future Directions. The 3rd Annual Delaware Watershed Research Conference, Philadelphia, PA, November 19, 2019.
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- Bergen, N. and M. Wu. Evaluating the Success and Monitoring the Usage of Wildlife Crossing Structures in Bedminster, New Jersey. 2018 Northeastern Transportation and Wildlife Conference, UMass Amherst, Amherst, MA, September 9-12, 2018.
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- Acosta Caraballo, Y., and M. Wu. Phytoplankton Assemblages in Freshwaters of New Jersey, New Jersey Water Environment Association, Atlantic City, NJ, May 9, 2018.
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- Acosta Caraballo, Y., and M. Wu. Phytoplankton Assemblages in Freshwaters of New Jersey, American Society of Microbiology, Seton Hall University, NJ, April 20, 2018.
- Rossi A., M. Wu, and L. Lee Prediction of Recreational Safety of the Passaic and Pompton Rivers using *Escherichia coli* as an Indicator. The Theobald Smith Society, Seton Hall University, South Orange, NJ, April 20, 2018.
- Rossi A., K. Zerbe, T.D. Hsu, and M. Wu. Litter Quantification and Characterization on the Lower Passaic River and Two of Its Tributaries. Mid-Atlantic Chapter of the Ecological

- Society of America Annual Meeting 2018, Rutgers University, Newark, NJ, April 7, 2018.
- Acosta Caraballo, Y., and M. Wu. Phytoplankton Assemblages in Freshwaters of New Jersey, Ecological Society of America Mid-Atlantic Chapter, Rutgers University, NJ, April 7, 2018.
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- Mazzaro, M., and M. Wu. Biomonitoring the water quality of the Third River using benthic macroinvertebrates, New Jersey, Ecological Society of America Mid-Atlantic Chapter, Rutgers University, NJ, April 7, 2018.
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- Rossi, A. M. Wu and L. Lee. 2017. Prediction of recreational safety of the Passaic and Pompton Rivers (NJ) using *Escherichia coli* as an indicator. The 2017 American Geographic Union Meeting, New Orleans, December 11-15, 2017.
- Deng, Y. and M. Wu. 2017. Oxidative and coagulative mechanisms of ferrate(VI) for simultaneous removal of algal cells and toxins in water. The 254th American Chemical Society National Meeting, Washington, DC, August 20-24, 2017.
- Acosta, Y. and M. Wu. 2017. Macroinvertebrate assemblages in selected New Jersey springs. The 2017 Annual Meeting of the Society of Wetland Scientists, San Juan, Puerto Rico, June 5-8, 2017.
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- Hus, D., A. Yussof, L. Lee, and M. Wu. 2016. Microbial source tracking for the Musconetcong River Watershed, New Jersey. Passaic River Symposium VI, Montclair NJ, October 13-14, 2016.
- Ross, A., K. Olsen, and M. Wu. 2016. Assessment of phosphorus storage in Lake Hopatcong sediment. Passaic River Symposium VI, Montclair NJ, October 13-14, 2016.
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- Pope, G., J. Galster, T. Blacic, R. FitzGerald, M. Gorrington, Matthew; W. Thomas, and M. Wu., 2015. Geomorphology research vignettes from the New Jersey School of Conservation. AAG Middle States Division Annual Meeting Binghamton, New York. October 2-3, 2015,
- Sherwood, N., M. Wu. 2015. Safe Passage: the first wildlife crossing tunnels in New Jersey. The 2015 Annual Meeting of Northeast Partners in Amphibian and Reptile Conservation, West Greenwich, RI, August 18-20, 2015.
- Wu, M. 2015. Aquatic ecosystem protection and management in the U.S.A. The 16th Cross-Strait Symposium on Environmental Resources and Ecological Conservation, Taipei, Taiwan, July 9-16, 2015.
- Ramirez, M., A. Rossi, E. Wong, L. Lee, M. Wu. 2014. Comparison of selected *Enterococcus* and *E. coli* detection methods in recreational waters. The 47th Annual Fall Metropolitan Association of College and University Biologists Conference, Molloy College, NY, November 1, 2014.
- Ramirez, M., M. Newton, M. Wu, L. Lee, E. Wong, J. Grupper, V. Lazar, D. Cruz, and L. Latheef. 2014. The third river pathogen study. The 47th Annual Fall Metropolitan Association of College and University Biologists Conference, Molloy College, NY, November 1, 2014.
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- Mirrerr L, M. Finocchiaro, M. Wu, and H. Feng. 2014. Impacts of land use on the Passaic River's water quality. Passaic River Symposium VI, Montclair NJ, October 9-10, 2014.
- Pope, G. A., S. Zerbo, M. Loubriel, L.M. Agrios, J. Galster, M. Wu. 2014. Geomorphic soil development from late quaternary and Holocene deposits, Stoke State Forest, New Jersey. Passaic River Symposium VI, Montclair NJ, October 9-10, 2014.
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- Triece, K., M. Wu, N. Sherwood, G. Fowles, and B. Zarate. 2014. Habitat characteristics of wildlife crossing hotspots in Northern New Jersey. Passaic River Symposium VI, Montclair NJ, October 9-10, 2014.
- Archer, K. and M. Wu. 2014. Passaic River Basin EcoExplorers Program in ecology, environmental science and computer technology. Passaic River Symposium VI, Montclair NJ, October 9-10, 2014.
- Sherwood, N. and M. Wu. 2014. Mercury contamination in New Jersey's snapping turtle. Passaic River Symposium VI, Montclair NJ, October 9-10, 2014.
- Qian, Y., H. Feng, F.J. Gallagher, Q. Zhu, M. Wu, C. Liu, R.V. Tappero. 2014. Comparative study of *Typha latifolia* L. root metal uptake and translocation under aerial and submerged conditions on a wetland brownfield site. Passaic River Symposium VI, Montclair NJ, October 9-10, 2014.
- Sherwood, N., and M. Wu. 2014. Developing a snapping turtle harvest survey, 2nd Annual New Jersey Wildlife and Conservation Conference, Atlantic City, NJ, June 6-8, 2014.
- Wu, M., J. Galster, G. Pope, and H. Feng. 2014. Impacts of urbanization on environmental characteristics of rivers and watersheds across Northern New Jersey. The 2014 Joint Aquatic Sciences Meeting, Portland, OR, May 18-23, 2014.
- Sherwood, N.R., and M. Wu. 2014. Mercury contamination in New Jersey's snapping turtles (*Chelydra serpentina*). The 2014 Joint Aquatic Sciences Meeting, Portland, OR, May 18-23, 2014.
- Triece, K., N. Sherwood, M. Wu, G. Fowles, and B. Zarate. 2014. Influence of landscape characteristics on wildlife mortality hotspots. The 2014 Joint Aquatic Sciences Meeting, Portland, OR, May 18-23, 2014.
- Mirrer, L.K., M. Wu, M.T. Finocchiaro, and H. Feng. Impacts of land use on the Passaic River's water Quality. The 2014 Joint Aquatic Sciences Meeting, Portland, OR, May 18-23, 2014.
- Lipps, E.J., P. R. Tomasula, M.A Ramirez, M. Wu, J. Galster, and G. Pope. 2014. Effects of urbanization on water quality of two New Jersey rivers. The 2014 Joint Aquatic Sciences Meeting, Portland, OR, May 18-23, 2014.
- Ramirez, M.A., J. Lipps, P. Tomasula, M. Wu, L. Lee, J. Galster, and G. Pope. 2014. Effects of land use on water quality of the Passaic River through coliform bacteria levels. The 2014 Joint Aquatic Sciences Meeting, Portland, OR, May 18-23, 2014.

- Ruggeri, L., M. Wu and P. Bologna. 2014. Analysis of herbicide treatment effectiveness on common reed (*Phragmites australis*) of Delaware Bay Salt Marshes. The 2014 Joint Aquatic Sciences Meeting, Portland, OR, May 18-23, 2014.
- Sulikowski, T, and M. Wu. 2014. Effects of land use and land cover on macroinvertebrate communities. The 2014 Joint Aquatic Sciences Meeting, Portland, OR, May 18-23, 2014.
- Sherwood, N., M. Wu. 2014. Mercury contaminant of snapping turtles in New Jersey, Society of Wetland Scientist, State College, PA, April 4, 2014.
- Guzer, M, B. Muller, M. McNicholas, K. Balschunat, J. Galster, G. Pope, and M. Wu. 2014. The impact of bridges and urban development on stream geomorphology. The 49th Annual Meeting of the Geological Society of America, Northeastern Section. March 23-25, 2014.
- Wu, M. and J. Wu. 2014. Ultrasound technology for sip ballast water management. The 2014 Ocean Sciences Meeting, Honolulu, HI, February 23-28, 2014.
- Archer, K., and M. Wu. 2014. The Passaic River Basin Eco-Explorers Program: engaging urban youth. The Alliance for New Jersey Environmental Education 29th Annual New Jersey Environmental Education Conference Cultivating Environmental Citizenship. Princeton NJ. January 24-25, 2014.
- Wu, M. 2013. Challenges in managing a river on the urban landscape. The 17th Annual Meeting of the Cross-Strait Conference on Water Resources, Miuli, Taiwan, November 6-13, 2013.
- Lee, L., M. Wu, and T. Chu. 2013. Identification and quantification of *Escherichia coli* and coliforms in Northern New Jersey bodies of water. The 17th Annual Meeting of the Cross-Strait Conference on Water Resources, Miuli, Taiwan, November 6-13, 2013.
- Guzner, M., M. McNicholas, B. Muller, K. Balschunat, J. Galster, G. Pope, and M. Wu. 2013. The impact of land use on stream geomorphology. 125th Annual Meeting and Expo of the Geological Society of America, Denver, CO, October 27-30, 2013.
- Agrios, L., M. Loubriel, S. Zerbo, G. Pope, J. Galster, and M. Wu. 2013. Field and laboratory methods used to assess late quaternary pedogenesis, Northwest New Jersey, USA. 125th annual meeting and expo of the Geological Society of America, Denver, CO, October 27-30, 2013.
- Triece, K., N. Sherwood, M. Wu, G. Fowles, and B. Zarate. 2013. Improving permeability of wildlife habitats in New Jersey. Prepared for the 46th Annual Fall Conference of the Metropolitan Association of College and University Biologists, Bergen County Community College, Paramus, NJ, October 29, 2013.
- Tomasula, P., J. Lipps, M. Ramirez, M. Wu, J. Galster, and G. Pope. 2013. Effects of urbanization on chemical properties of water in Northern NJ Rivers. Prepared for the 46th Annual Fall Conference of the Metropolitan Association of College and University Biologists, Bergen County Community College, Paramus, NJ, October 29, 2013.
- Ramirez, M., J. Lipps, P. Tomasula, M. Wu, L. Lee, J. Galster, and G. Pope. 2013. Comparison of water quality through coliform bacteria levels in Northern New Jersey rivers. Prepared for the 46th Annual Fall Conference of the Metropolitan Association of College and University Biologists, Bergen County Community College, Paramus, NJ, October 29, 2013.
- Ramirez, M. D. Restaino, J. Desai, M. Finocchiaro, M. Wu, and L. Lee. 2013. Evaluation of primers for microbial source tracking in the Passaic River, NJ. Prepared for the 46th

- Annual Fall Conference of the Metropolitan Association of College and University Biologists, Bergen County Community College, Paramus, NJ, October 29, 2013.
- Triece, K., N. Sherwood, M. Wu, G. Fowles, and B. Zarate. 2013. Wildlife guardians project: improving permeability of wildlife habitats in NJ. Northeast Partners in Reptile and Amphibian Conservation. July 25, 2013.
- Triece, K., N. Sherwood, M. Wu, G. Fowles, and B. Zarate. 2013. Wildlife guardians project: improving permeability of wildlife habitats in NJ. Spring Meeting of New Jersey Chapter of the Wildlife Society. April 10, 2013.
- Palmer, K.E., J.C. Galster, M. Birrer, S. Espinosa, H. Feng, G. Pope, and M. Wu. 2013. Land use influences on RGA scores and river channel widths in northern New Jersey: Northeastern Section of Geological Society of America Abstracts with Programs, v. 45.
- Pope, G.A., J. C. Galster, A. J. Torres, L. M. Starks, K. E. Palmer, H. Feng, and M. Wu. 2013. Sediment sourcing in Northwest New Jersey: Legacies of forest, farming, industry, and suburbanization. Special session, "Legacy Sediment in the New World." Association of American Geographers Annual Meeting, Los Angeles, California, April 9-13, 2013
- Wu, M. and J. Wu. 2012. *BallastSolution*: An Innovative Solution for Ship Ballast Water Management. 6th International Conference and Exhibition on Ballast Water Management 2012, Singapore, November 14-16, 2012.
- Sherwood, N., M. Wu, and P. Weis. 2012. Mercury in New Jersey's Diamondback Terrapins (*Malaclemys terrapin*). The 9th New Jersey Water Monitoring Summit, November 28-29, 2012, Bordentown, NJ.
- Wu, M. 2012. Research Experience for Undergraduates Program in Multidisciplinary Environmental Science at Montclair State University. 2012 AGU Fall Meeting, 3-7 December 2012, San Francisco, California. Session: Environmental Education.
- Pope, G.A., L.M. Starks, A. J. Torres, J. C. Galster, H. Feng, and M. Wu 2012. Origin of stream bed sediments in northwest New Jersey: Factors of land use and source determined by trace element analysis. 2012 AGU Fall Meeting, 3-7 December 2012, San Francisco, California. Session: Undergraduate Geoscience Research Highlights.
- Galster, J. C., K. Palmer, M. Birrer, S. Espinosa, G.A. Pope, H. Feng, and M. Wu. 2012. Watershed land use influences on river discharge and channel characteristics across northern New Jersey. 2012 AGU Fall Meeting, 3-7 December 2012, San Francisco, California. Session: Undergraduate Geoscience Research Highlights.
- Feng H., Mirrer L. K., Pelak N. F., M. Wu, Galster J. C., and G. A. Pope. 2012. Water quality monitoring and assessment in northern New Jersey Watershed, USA. 2012 AGU Fall Meeting, 3-7 December 2012, San Francisco, California. Session: Undergraduate Geoscience Research Highlights.
- Pope, G.A., J.C. Galster, A.J. Torres, L.M. Starks, H. Feng, and M. Wu. 2012. Trace element analysis of stream and watershed sediments relate to stream quality indicators, Northwest New Jersey. Passaic River Symposium V, Today's Status, Tomorrow's Perspective, October 19, 2012, Montclair State University, Montclair, NJ.
- Piombino, A., M. Wu, H. Feng, and F. Gallagher. 2012. Investigation of Primary Production and Methane Flux in an Urban Wetland. Passaic River Symposium V, Today's Status, Tomorrow's Perspective, October 19, 2012, Montclair State University, Montclair, NJ.
- Sherwood, N., M. Wu, and P. Weis. 2012. Mercury in New Jersey's Diamondback Terrapins (*Malaclemys terrapin*). Passaic River Symposium V, Today's Status, Tomorrow's Perspective, October 19, 2012, Montclair State University, Montclair, NJ.

- Wu, M. 2012. Passaic Basin Eco-explorers Program in Ecology, Environmental Science and Computer Technology for Newark Middle School Students. Passaic River Symposium V, Today's Status, Tomorrow's Perspective, October 19, 2012, Montclair State University, Montclair, NJ.
- Lear, S.C., M. Wu, and L. Lee. 2012. Assessment of Bloom Forming Cyanobacteria and Algae in Selected New Jersey Lakes. Passaic River Symposium V, Today's Status, Tomorrow's Perspective, October 19, 2012, Montclair State University, Montclair, NJ.
- Mason, D., E. Parker, M. Wu, H. Feng, J. Galster, and G. Pope. 2012. Effects of Land Use on the Diversity, Productivity, and Presence of Invasive Species in Aquatic Plant Communities. Passaic River Symposium V, Today's Status, Tomorrow's Perspective, October 19, 2012, Montclair State University, Montclair, NJ.
- Mirrer, L. K., N. F. Pelak, H. Feng, M. Wu, J. C. Galster, and G. A. Pope. 2012. Water Quality Monitoring and Assessment in Northern New Jersey Watersheds with Different Land Use Settings. Passaic River Symposium V, Today's Status, Tomorrow's Perspective, October 19, 2012, Montclair State University, Montclair, NJ.
- Qian, Y., F. Huan, M. Wu, F. Gallagher, and R. Tappero. A synchrotron study of heavy metal transportation in the root of *Typha latifolia*. Prepared for the 2012 Annual meeting of the Hudson-Delaware Chapter of the Society of Environmental Toxicology and Chemistry, Montclair State University, Montclair, NJ. April 26-27, 2012.
- Jimenez, G., M. Wu, and J. Wu. The effects of ultrasound on *Escheria coli*. Prepared for the 57th New Jersey Academy of Science Meeting, Seton Hall University, South Orange, NJ, April 21, 2012.
- Sherwood, N. and M. Wu. Mercury in New Jersey's diamondback terrapins (*Malaclemys terrapin*). Prepared for the 57th New Jersey Academy of Science Meeting, Seton Hall University, South Orange, NJ, April 21, 2012.
- Sabas, J. and M. Wu. Effects of inundation on tidal salt marsh. Prepared for the 57th New Jersey Academy of Science Meeting, Seton Hall University, South Orange, NJ, April 21, 2012.
- Piombino, A., M. Wu, and H. Feng. Impacts of heavy metals on wetland methane flux and primary production. Prepared for the 57th New Jersey Academy of Science Meeting, Seton Hall University, South Orange, NJ, April 21, 2012.
- Finocchiaro, M., P. Bologna, M. Wu, S. Evans, and J. Cocciardi. Potential for Eurasian milfoil (*Myriophyllum spicatum*) to invade New Jersey's estuaries. Prepared for the 57th New Jersey Academy of Science Meeting, Seton Hall University, South Orange, NJ, April 21, 2012.
- Mejia, M., and M. Wu. Effectiveness of biological control, *Galerucella* spp. On *Lythrum salicaria* (purple loosestrife) at upstate New York. Prepared for the 57th New Jersey Academy of Science Meeting, Seton Hall University, South Orange, NJ, April 21, 2012.
- Cocciardi, J., M. Finocchiaro, S. Evan, M. Wu, and P. Bologna. The effects of non-native species introduction on benthic macroinvertebrate communities. Prepared for the 57th New Jersey Academy of Science Meeting, Seton Hall University, South Orange, NJ, April 21, 2012.
- Lear, S. C., L. Lee, and M. Wu. Assessment of bloom-forming cyanobacteria and algae in selected New Jersey lakes. Prepared for the 57th New Jersey Academy of Science Meeting, Seton Hall University, South Orange, NJ, April 21, 2012.
- Qian, Y., F. Gallagher, H. Feng, and M. Wu. Biogeochemical study of vanadium translocation in Liberty State Park wetland, New Jersey. Prepared for the 57th New Jersey Academy of Science Meeting, Seton Hall University, South Orange, NJ, April 21, 2012.

- Finocchiaro, M., P. Bologna, M. Wu, S. Evans, and J. Cocciardi. Potential for Eurasian milfoil (*Myriophyllum spicatum*) to invade New Jersey's estuaries. Prepared for the 41st benthic Ecology Meeting, Norfolk, VI, March 21-24, 2012.
- Wu, M, and J. Wu. BallastSolution: an innovative solution for ship ballast water management. Prepared for the New Jersey Entrepreneur Network Meeting, Princeton, NJ, February 1, 2012.
- Schafer, K., G. Bohrer, L., Naor, P. Mouser, W. Mitsch, and M. Wu. Temporal Dynamics of Methane Fluxes in Temperate Urban Wetlands. Prepared for the 2100 American Geophysical Union Fall Meeting, San Francisco, CA. December 5-9, 2011.
- Sherwood, N. and M. Wu. Assessing mercury levels in Diamondback Terrapins (*Malaclemys terrapin*). Prepared for the New Jersey Water Monitoring Summit, West Trenton, NJ. December 1, 2011.
- Jimenez, G.D., L. H. Lee, and M. Wu. Relationship of E. coli and Optical Density. Prepared for the 44th Annual Fall Conference of the Metropolitan Association of College and University Biologists, Seton Hall University, South Orange, NJ, October 29, 2011.
- Finocchiaro, M., S. Evans, J. Cocciardi, P. Bologna and M. Wu. Effects of Eurasian Water Milfoil (*Myriophyllum spicatum*) on Benthic Macroinvertebrate Communities. Prepared for the 44th Annual Fall Conference of the Metropolitan Association of College and University Biologists, Seton Hall University, South Orange, NJ, October 29, 2011.
- Sherwood, N and M. Wu. Assessing mercury levels in Diamondback Terrapins (*Malaclemys terrapin*). Prepared for the 44th Annual Fall Conference of the Metropolitan Association of College and University Biologists, Seton Hall University, South Orange, NJ, October 29, 2011.
- Lear, S., B. Ondimu, L. Lee, and M. Wu. Development of a Rapid Method For Detection of Bloom-forming Cyanobacteria and Algae in Selected New Jersey Waterbodies. Prepared for the 44th Annual Fall Conference of the Metropolitan Association of College and University Biologists, Seton Hall University, South Orange, NJ, October 29, 2011.
- Sherwood, N., and M. Wu. Habitat Selection by Wood Turtle, *Glyptemys insculpta*, in New Jersey. Prepared for the 96th Annual Meeting of Ecological Society of America, Austin, TX., August 7-12, 2011.
- Lear, S., B. Ondimu, L. Lee, and M. Wu. Develop a rapid detection method for bloom-forming cyanobacteria and algae. Prepared for the 96th Annual Meeting of Ecological Society of America, Austin, TX., August 7-12, 2011.
- Soman, C., S. Lear, and M. Wu. Invasive Plant Management using Hydroraking at the New Jersey School of Conservation. Prepared for the joint Annual Meeting of Ecological Society of America Mid-Atlantic Chapter and the New Jersey Academy of Science, Montclair, NJ. April 9, 2011.
- Sherwood, N., and M. Wu. Habitat Selection by Wood Turtle, *Glyptemys insculpta*, in New Jersey. Prepared for the joint Annual Meeting of Ecological Society of America Mid-Atlantic Chapter and the New Jersey Academy of Science, Montclair, NJ. April 9, 2011.
- Ondimu, B., S. Lear, B. L. Lee, and M. Wu. Develop a rapid detection method for bloom-forming cyanobacteria and algae. Prepared for the joint Annual Meeting of Ecological Society of America Mid-Atlantic Chapter and the New Jersey Academy of Science, Montclair, NJ. April 9, 2011.
- Soman, C. J. Xu, N. Sherwood, S. Lear, B. Haghjoo and M. Wu. Potential impact of human transportation on amphibian and reptile populations. Prepared for the Northeast Partners

- in Amphibian and Reptile Conservation 2010 Annual Meeting, Winter Harbor, Maine, August 10-11 2010.
- Wu, M. and D. Kalma. Evaluation of National Wetland Inventory maps in an Adirondack watershed. Prepared for the 95th Annual Meeting of Ecological Society of America, Pittsburgh, PA., August 1-6, 2010.
- Duchesne Onoro, R., J. Paredes, and M. Wu. A comparative study on land use changes in Los Angeles, CA, USA and Beirut, Lebanon during the period of 1988 to 2007. Prepared for the 95th Annual Meeting of Ecological Society of America, Pittsburgh, PA., August 1-6, 2010.
- Soman, C., K. Xu, and M. Wu. Potential impact of human transportation on amphibian and reptile populations. Prepared for the 95th Annual Meeting of Ecological Society of America, Pittsburgh, PA., August 1-6, 2010.
- Wu, M. and D. Kalma. A comparative study of wetland vegetation in the Ausable and Boquet River watersheds. Prepared for the annual meeting of the Lake Champlain Research Consortium "Lake Champlain: Our Lake, Our Future 2010," Burlington, VT., June 7-8, 2010.
- Mikucki, B. M. Wu, and D. Kalma. Which to use: NWI maps or Corps of Engineers Wetlands Delineation Manual? Prepared for the 2010 Annual Conference of Mid-Atlantic Chapter of the Ecological Society of America, Fredericksburg, VA., April 17, 2010.
- M. Wu. and D. Kalma. A wetland vegetation inventory of two Adirondack watersheds. Prepared for the 94th Annual Meeting of Ecological Society of America, Albuquerque, New Mexico, August 2-7, 2009.
- M. Wu. and D. Kalma. Effects of introduced plants on herbaceous stratum composition in wetlands. Prepared for the 93rd Annual Meeting of Ecological Society of America, Milwaukee, Wisconsin, August 4-10, 2008.
- Oles, H, and M. Wu. A Community-based Partnership for Invasive Plants Management in the Adirondack Park, New York, USA. Prepared for the EcoSummit 2007, Beijing, China, May 22-27, 2007.
- Wu, M., and J. Wu. Feasibility of Ultrasonic Control on Water Chestnut. Prepared for the annual meeting of the Ecological Society of America, Memphis, TN, August 6-11, 2006.
- Benway, S. K., M. Wu, and K. B. Adams. Wetland Habitat Enhancement through Increased Interspersion and Connectivity. Prepared for the annual meeting of the Ecological Society of America, Montreal, Canada, August 7-12, 2005.
- Juneau, K. J., K. B. Adams, and M. Wu. Habitat Usage by Birds at the Lake Alice Wildlife management Area. Prepared for the annual meeting of the Ecological Society of America, Montreal, Canada, August 7-12, 2005.
- Zucker, J., M. Bigness, M. Praeger, S. Benway, K. Bazquez, and M. Wu. Wetland Enhancement by Creating Potholes and Controlling Invasive Exotics. Prepared for the annual meeting of the Ecological Society of America, Montreal, Canada, August 7-12, 2005.
- Wu, M. and J. Wu. Feasibility Study of Ultrasound Application for Water Chestnut (*Trapa natans* L.) Management. Prepared for the annual meeting of Weed Science Society of America, Honolulu, HI, February 6-11, 2005.
- Wu, M. and J. Wu. Ultrasound as an Alternative Weed Management Strategy. Prepared for the annual meeting of Weed Science Society of America, Honolulu, HI, February 6-11, 2005.

- Franzi, D.A., K.B. Adams, T.B., Mihuc, R.D. Fuller, E.A. Romanowicz, M. Wu, and E.B. Allen. Five years of undergraduate watershed research at Plattsburgh State University. Prepared for the Annual meeting of Geological Society of America, March 15, 2005.
- Wu, M. Integrated Management of Invasive Plants. Prepared for the 2nd Adirondack Water Quality Conference, Paul Smith, NY, August 9-11, 2004.
- Wu, M. Teaching Wetland Ecology Using Investigative Laboratories. Prepared for the 89th Annual Meeting of Ecological Society of America, Portland OR, August 1-6, 2004.
- Ruppel, R.E., K.E. Setty, M. Wu. Decomposition Rates of *Typha* spp. in Northern Freshwater Wetlands over a Stream-Marsh-Peatland Gradient. Prepared for the 89th Annual Meeting of Ecological Society of America, Portland OR, August 1-6, 2004.
- Franzi, D.A., K.B. Adams, E.A. Romanowicz, T.B. Mihuc, R.D. Fuller, M. Wu, E.B. Allen and S.R. Kramer. An Instrumented Watershed for Undergraduate Instruction and Research in Hydrology and Ecology. 2004. Prepared for the International Instrumented Watershed Symposium.
- Adams, K.B., D.A. Franzi, T.B. Mihuc, R.D. Fuller, E.A. Romanowicz, M. Wu. Disturbance impacts on sandstone-pavement pine barrens and adjacent hardwood ecosystems in northeastern New York. Prepared for the 2002 Geological Society of America Annual Meeting, Denver, CO, Oct 27-30, 2002.
- Wu, M., and J. Stetz. A native approach for sludge treatment wetlands. Prepared for the 23rd Annual Meeting of Society of Wetland Scientists, Lake Placid, NY. June 2-7, 2002.
- Wu, M., and J. Stetz. Potential of cattail as a plant candidate for sludge treatment wetlands. Prepared for the *Phragmites australis*: a sheep in wolf's clothing conference, Vineland, NJ. Jan. 6-9, 2002.
- Russo, R., J. Stetz, and M. Wu. Interspecific competition between *Phragmites australis* and *Typha latifolia* at Adirondack Region. Prepared for the *Phragmites australis*: a sheep in wolf's clothing conference, Vineland, NJ. Jan. 6-9, 2002.
- Bars, K., J. Bellona, S. Maxwell, and M. Wu. The effects of acid deposition on a moss community of a bog ecosystem. Prepared for the Environmental Monitoring, Evaluation, and Protection in New York: Linking Science and Policy Conference, Albany, NY. Sept. 24-25, 2001.
- Wu, M., E. H. Franz, and S. Chen. Atmospheric oxygen diffusion rates in constructed wetlands. Prepared for Wetlands & Remediation Conference, Burlington, VT. September 5-6, 2001.
- Wu, M., E. H. Franz, and S. Chen. Oxygen fluxes in constructed wetlands. Prepared for the 86th Annual Meeting of Ecological Society of America, Madison, WI. Aug 4-10, 2001.
- Wu, M., E. H. Franz, and S. Chen. 2000. *Spartina pectinata*: a candidate plant species of constructed treatment wetlands. Prepared for Wetlands & Remediation Conference, Salt Lake City, UT. Nov 1999.
- Wu, M., E. H. Franz, and S. Chen. The potential of *Spartina pectinata* for use in constructed treatment wetlands. Prepared for the 84th annual meeting of the Ecological Society of America, Spokane WA. Aug 8-12, 1999.
- Nakano, M., M. Wu, and S. Chen. Design criteria of constructed wetland for nitrogen removal. Prepared for the 1999 ASAE/CSAE-SCGR annual international meeting "Emerging Technologies for the 21st Century", Orlando, FL. Nov, 1999.

Wu, M., D. Aryer, and D. R. Strong. 1998. The potential of biological control of an alien intertidal grass. Prepared for the conference “Ecological Restoration: Turning the Tide”, Tacoma, WA. Oct, 1998.

Invited Presentations

- “The American Way: harmful algal bloom management”, Department of Environmental Engineering, National Cheng Kung University, Taiwan, September 18, 2024
- “Harmful Algal Bloom: cause, impacts and management”, Association of New Jersey Environmental Commissions, July 29, 2024.
- “HAB Lake Management Guidance Workshop”, Virtually, April 23, 2024.
- “Traveling HAB Lab”, New Jersey Water Monitoring Council, Trenton, NJ, April 17, 2024.
- “Data-Visualization: a data dashboard for the Traveling HAB Lab”, New Jersey Water Monitoring Council, Robbinsville, NJ, October 4, 2023.
- “Cyanobacterial harmful algal blooms: cause, impacts and management”, Cozy Lake, Jefferson Township, NJ, September 24, 2023.
- “Traveling HAB Lab”, New Jersey Water Monitoring Council, Trenton NJ, May 24, 2023.
- “Tracking sources of bacteria to guide water quality restoration and protection actions”, New Jersey Water Monitoring Council, Trenton NJ, May 24, 2023.
- “2022 Environmental monitoring of greenwood lake”, Greenwood Lake Environmental Commission, West Milfoil, NJ. March 22, 2023.
- “Data to Action: tracking bacteria in the Musconetcong River Watershed to guide actions for restoration planning”, Musconetcong River Restoration Partnership, Asbury, NJ. February 21, 2023.
- “Cyanobacterial harmful algae blooms in New Jersey” Whippany River Watershed Action Committee Meeting, Whippany, NJ. November 2, 2022.
- “Cyanobacterial harmful algae bloom management: case studies of freshwater systems in New Jersey” Workshop on Algal Bloom Mitigation and Algal Biotechnology for Sustainable New Jersey. Lyndhurst, NJ. October 11, 2022.
- “Harmful Algal Blooms and Protecting Our Water Resources” The 6th Annual Autumn Outdoor Conference: Educating for Change. Alliance for New Jersey Environmental Education, Hillsborough, NJ. September 30-October 1, 2022.
- “Cyanobacteria Community Composition.” Harmful Algal Bloom Expert Team. May 16, 2022.
- “Harmful Algal Blooms in New Jersey Waters.” Women in STEM Lecture Series, Flat Rock Brook Nature Association, Englewood, NJ. April, 27, 2022.
- “HAB Expert Team Read out” New Jersey Department of Environmental Protection’s 2022 HAB Summit. March 23, 2022.
- “Data to Action: tracking bacteria in the Musconetcong River Watershed to guide actions for restoration planning”, Musconetcong River Restoration Partnership, Asbury, NJ. February 1, 2022.
- “Environmental Monitoring of Greenwood Lake”, Greenwood Lake Environmental Commission, West Milfoil, NJ. November 17, 2021.
- “Watershed Restoration Planning—Bloomsbury to Hackettstown”, Musconetcong River Restoration Partnership, Asbury, NJ. October 7, 2021.
- “Revisiting Musconetcong after Ten Years”, New Jersey Water Monitoring Council, Trenton NJ, September 29, 2021.

- “Harmful Cyanobacterial Blooms in Freshwater Ecosystems”, Department of Biology, Montclair State University, Montclair, NJ, September 22, 2021.
- “New Jersey Cyanobacteria Project Update”, New Jersey Water Monitoring Council, Trenton NJ, May 27, 2021.
- “Harmful Algal Blooms in New Jersey”. New Jersey State Assembly Special Committee on Infrastructure and Natural Resources. October 22, 2020.
- “Our Lakes and Harmful Algae”. In “Where Does All the Water Go?” a webinar organized by New Jersey League of Conservation Voters. August 10, 2020.
- “Revisiting Musconetcong After Ten Years”, New Jersey Highlands Council, Chester, NJ. February 27, 2020.
- “Preserving Wildlife Habitat Connectivity via Construction of Wildlife Tunnels”, Bedminster Environmental Commission, Bedminster, NJ, February 5, 2020.
- “Revisiting Musconetcong After Ten Years”, Musconetcong River Management Council, Asbury, NJ. December 12, 2019.
- “Revisiting Musconetcong After Ten Years”, Musconetcong River Restoration Partnership, Asbury, NJ. December 17, 2019.
- “New Jersey Cyanobacteria Occurrence and Distribution & HAB Monitoring at Greenwood Lake”, New Jersey Water Monitoring Council, Trenton NJ, September 18, 2019
- “Environmental Monitoring of Harmful Algal Blooms at Greenwood Lake”, Greenwood Lake Environmental Commission, West Milfoil, NJ. August 28, 2019.
- “Harmful Algal Blooms at Greenwood Lake, Greenwood Lake Environmental Commission, West Milfoil, NJ. July 24, 2018.
- “Environmental Assessment of Greenwood Lake”, Greenwood Lake Environmental Commission, West Milfoil, NJ. March 27, 2019.
- “Phytoplankton assemblages in freshwaters of New Jersey, USA”, Workshop on Water Quality Monitoring and Treatment, Tainan, Taiwan, January 4, 2019.
- “Cyanobacteria and Harmful Algal Blooms, Greenwood Lake Environmental Commission, West Milfoil, NJ. July 25, 2018.
- “Microbial indicator monitoring and source tracking for the Musconetcong River watershed”, New Jersey Water Monitoring Council, Trenton NJ, May 23, 2018.
- “Passaic River Water Quality and Protection”, Rockaway Watershed Cabinet, Bonton, New Jersey, April 18, 2018.
- “Stopping trash where it starts”, New Jersey clean Communities Visual Litter Survey Seminar, Bordentown, New Jersey, January 30, 2018.
- “Phytoplankton Assemblages in selected freshwaters in New Jersey”, New Jersey Water Monitoring Council, Trenton NJ, January 24, 2018.
- “Human consumption safety of NJ turtle species”, New Jersey Water Monitoring Council, Trenton NJ, May 24, 2017.
- “Where does our water come from and how can we protect it?” The 2017 Water Resources and the NJ Highlands Conference, Montclair, NJ, April 7 2017.
- “River Road wildlife crossing structures”, Bedminster Township Open Meeting, Bedminster, NJ, April 4, 2016.
- “Is Global Climate Change Real?” Chinese Culture University, Taipei, Taiwan, March 7, 2016.
- “Environmental assessment of Greenwood Lake”, Greenwood Lake Environmental Commission, West Milford, NJ, January 27, 2016.

- “Design projects on climate resiliency?” Chinese Culture University, Taipei, Taiwan, December 7, 2015.
- “Managing non-point source pollutions: identifying sources of pathogens?”, Chinese Culture University, Taipei, Taiwan, December 2, 2015.
- “How to design a successful research project?” Chinese Culture University, Taipei, Taiwan, December 2, 2015.
- “Assessment of sediment phosphorus of Lake Hopatcong”, Lake Hopatcong, NJ, December 10, 2015.
- “Preparing for the next Superstorm: Where do we stand three years after Sandy?” New Jersey Council for the Humanities, Montclair NJ, October 21, 2015.
- “HABs in New Jersey freshwater lakes: monitoring, detection and management”, New Jersey Water Monitoring Council Meeting, Trenton, NJ, September 23, 2015.
- “Flood Risk Reduction Strategies”, Federal Emergency Management Agency, Bernardsville, NJ, May 7, 2015.
- “Microbial Source Tracking using Molecular Technique”, Musconectong Watershed Association, Washington NJ, April 10, 2015.
- “A Case Study of Urban River Management: Lower Passaic River Restoration Project”, The University of Graz, Graz, Austria, March, 10, 2015.
- “After Superstorm Sandy: a case study on climate resilience”, Chinese Culture University, Taipei, Taiwan, December 15, 2015.
- “Sediment Phosphorus Storage at Lake Hopatcong”. Lake Hopatcong Foundation, Lake Hopatcong, NJ. December 1, 2015.
- “Challenges on Managing Urban Rivers”, Chinese Culture University, Taipei, Taiwan, December 18, 2014.
- “Third River Pathogen Study”, U.S. Environmental Protection Agency, New York, New York, November 21, 2014.
- “Big Dreams in STEM”, Women Entrepreneurship Week, Montclair State University, Montclair, NJ, October 16, 2014.
- “Habitat Fragmentation: the Importance of Connecting Citizens and Wildlife”, Jewish Home Assisted Living, River Vale, NJ, March 24, 2014.
- “Ultrasonic technology for Ship Ballast Water Treatment”, New Jersey Technology Council Meeting, Hamilton, NJ, March 18, 2014.
- “The Passaic River Basin Eco-Explorers Program: Engaging Urban Youth”, Jewish Home Assisted Living, River Vale, NJ, March 17, 2014.
- “Challenges in managing a river on the human landscape”, Jewish Home Assisted Living, River Vale, NJ, March 3, 2014.
- “Contaminant Transport in Aquatic Food webs”, New Jersey Department of Environmental Protection Endangered and Non-game Species Group, Sandyston, NJ, October 16, 2013.
- “Wildlife Guardians: Improving Habitat Permeability in New Jersey”, New Jersey Department of Environmental Protection Endangered and Non-game Species Group, Sandyston, NJ, October 15, 2013.
- “Wildlife Guardians: Improving Habitat Permeability in New Jersey”, Roads and Wildlife Working Group of New Jersey, Trenton, NJ, September 10, 2013.
- “The Passaic River: water, Pollution, Flooding”, Great Swamp Watershed Association, Morristown, NJ, April 9, 2013.

Faculty Showcase, Asian Pacific Islander Heritage Month, Montclair State University, April, 2013.

Tainan University, Tainan, Taiwan, November 22, 2012.

Chinese Culture University, Taipei, Taiwan, November 18, 2012.

Tianjin University, Tianjin, China, August 2, 2011.

Faculty Showcase, Asian Pacific Islander Heritage Month, Montclair State University, April, 2011.

Department of Biological Sciences, Seton Hall University, September 29, 2010.

New Jersey Department of Transportation/Department of Environmental Protection, Trenton, NJ, July 21, 2010.

Passaic River Symposium, Montclair State University, June 22, 2010.

Department of Biology, Binghamton University, April 9, 2010.

Faculty Showcase, Asian Pacific Islander Heritage Month, Montclair State University, April, 2010

Adirondack Park Invasive Plant Program, Adirondack Nature Conservancy, Keene, NY, November 6, 2008.

Lake Champlain Basin Program, Grand Isle, VT, October 23, 2008.

International Symposium on Modern Ecology, Hohhot, Inner Mongolia, China, May 28-June 3, 2007

Boquet River Watershed Association, Westport, NY, May 7, 2007.

Department of Nature Resource, Chinese Cultural University, Taipei, Taiwan, March 31, 2006.

Organized/Co-organized Conferences Panel Discussion and Professional Workshops:

The 2024 Traveling HAB Lab End of Year Celebration, October 24, 2024, Montclair, NJ.

Teacher Training Workshop on How Clean is our Water. June 5, 2024, Montclair, NJ.

Teacher Training Workshop on Harmful Algal Bloom. June 6, 2024, Montclair, NJ.

The 2024 Traveling HAB Lab Citizen Science Training, May 29, 2024, Montclair, NJ.

Teacher Training Workshop on How Clean is our Water. January 25, 2024, Bloomfield, NJ.

Teacher Training Workshop on Harmful Algal Bloom. January 9, 2024, Montclair, NJ.

The 2023 Traveling HAB Lab End of Year Celebration, November 17, 2023, Montclair, NJ.

Data Management, May 4, 2023, Montclair, NJ.

Microscopy, Phytoplankton Processing & Safety Protocol. May 3, 2023, Montclair, NJ.

Instrument Calibration, Data Sheet Overview, Safety, & Sampling Protocol. May 3, 2023, Montclair, NJ.

Introduction to Phytoplankton & Cyanobacteria, May 1, 2023, Montclair, NJ.

Microscopy, Phytoplankton Processing & Safety Protocol. April 26, 2023, Montclair, NJ.

Instrument Calibration, Data Sheet Overview, Safety, & Sampling Protocol. April 26, 2023, Montclair, NJ.

Introduction to Phytoplankton & Cyanobacteria, April 24, 2023, Montclair, NJ.

The Traveling HAB Lab, April 20, 2023, Montclair, NJ.

The Summer Eco Institute, August 23- August, 2021, Bloomfield, NJ.

The Summer Eco Institute, June 28-July 1, 2021, Bloomfield, NJ.

Collaboration between academic institutions and non-profits: a case study on the Musconetcong River, the 2019 NJ Watershed Conference, November 1, 2019, Pennington, NJ.

Stopping trash where it starts" training workshop, April 13, 2019, Hackensack, NJ.

Stopping trash where it starts" training workshop, August 23, 2018, Bronx, NY.

Stopping trash where it starts” training workshop, September 28, 2017, Montclair, NJ.

Passaic River Symposium VII: Environmental Management for a Sustainable Passaic River, October 13-14, 2016, Montclair State University, Montclair, NJ.

Advancing Resilience: Pathways to Improve Regional Water Quality in the Face of Climate Change, May 5, 2016, Montclair State University, Montclair, NJ.

Climate Adaptation Tools Workshop, January 15, 2016, Montclair State University, Montclair, NJ.

Contaminated Sediment Management, April 22, 2015, Montclair State University, Montclair, NJ.

Passaic River Institute Research Discussion Series: Building Partnership with Industries, March 18, 2015, Montclair State University, Montclair, NJ.

Passaic River Institute Research Discussion Series: Community Engagement, February 25, 2015, Montclair State University, Montclair, NJ.

Passaic River Institute Research Discussion Series: Orange Community School Initiative, November 19, 2014, Montclair State University, Montclair, NJ.

Third River Working Group Meeting, November 16, 2014, Montclair State University, Montclair, NJ.

Passaic River Institute Research Discussion Series: Public Health Perspectives—exploring synergies across colleges and programs, October 29, 2014, Montclair State University, Montclair, NJ.

Passaic River Institute Research Discussion Series: using collaboration and team science to increase grant success, September 24, 2014, Montclair State University, Montclair, NJ.

Passaic River Symposium VI: Intersecting Priorities, October 9-10, 2014, Montclair State University, Montclair, NJ.

Passaic River Institute Research Discussion Series: using collaboration and team science to increase grant success, September 24, 2014, Montclair State University, Montclair, NJ.

Passaic River Institute Research Discussion Series, September 10, 2014, Montclair State University, Montclair, NJ.

A Morning Dialog on the Lower 8 Miles of Passaic River Focused Feasibility Study, June 2, 2014, Montclair State University, Montclair, NJ.

Research Opportunities and Collaboration, Essex County Environmental Center, October 18, 2013, Roseland, NJ.

Panel Discussion: Challenges of climate change and building resilient communities, May 13, 2013, Somerset County Environmental Education Center, Baskin Ridge, NJ.

Panel Discussion: Hurricane Sandy: reflections and visions, November 27, 2012, Montclair State University, Montclair, NJ.

The 9th New Jersey Water Monitoring Summit, November 28-29, 2012, Bordentown, NJ.

Passaic River Symposium V, Today’s Status, Tomorrow’s Perspective, October 19, 2012, Montclair State University, Montclair, NJ.

“Disturbed Environments: Ecological Impact & Management”, the annual meeting of the Mid-Atlantic Chapter of the Ecological Society of America, Blacksburg, Virginia, April 14-15, 2012.

The annual joint meeting of the Mid-Atlantic Chapter of the Ecological Society of America and the New Jersey Academy of Sciences, Montclair, NJ, April 9-10, 2011.

“Transitions Across Landscapes: the Ecology of Changes”, the annual meeting of the Mid-Atlantic Chapter of the Ecological Society of America”, Fredericksburg, VA, April 17, 2010.

“Invasive Plants Management: A Workshop for Transportation Personnel”, Keene, NY, Sept 7 2006.

“Invasive Plants in the Boquet River Watershed”, Wadham, NY, July 17, 2006.

“Purple Loosestrife Monitoring Protocol”, Elizabeth Town, NY, June 24, 2004.

“Invasive Species and its Management”, Saranac Lake, NY, June 18, 2003.

“Brownfields and Exotic Species: What Governments Need to Know”, Valcour, NY. Apr 29, 2003.

“Acid Rain and Exotic Species: A Conference for North Country Educators”, Valcour, NY. Mar 26, 2003.

Awards

Excellence in Environmental Education Award. 2022. Alliance for New Jersey Environmental Education.

Faculty Research Award. 2018. College of Science and Mathematics Awards of Excellence, Montclair State University.

Provost’s Research Recognition Award. 2016. Montclair State University.

Professional Services

Board Director, Chinese American Water Resources Association, 2024-2025

Member, New Jersey Aquatic Invasive Species Management Plan Working Group, 04/2022-present

Member, Technical Advisory Committee for Non-point Source Pollution, Musconetcong Watershed Association. 5/2023-present.

Member, Water Quality Work Group, New York-New Jersey Harbor & Estuary Program, Hudson River Foundation. 11/2022-present

Member, Science and Technical Advisory Committee, New York-New Jersey Harbor & Estuary Program, Hudson River Foundation. 6/2022-present

Member, Harmful Algal Bloom and Lakes Management Expert Team, New Jersey Department of Environmental Protection, 12/2020-present

Member, Science Advisory Board, New Jersey Department of Environmental Protection, 05/2019-present

Member, New Jersey Harmful Algal Blooms Research Committee, 05/2018-present

Member, Editorial board of Frontiers in Plant Science, 10/2011-present.

Council Member, New Jersey Water Monitoring Council, 09/2011-present

Core Committee, Friends of Bonsal Preserve, 10/2014-present

Member, United States National Ramsar Committee. 12/2015-2019

Member, Justice, Equity, Diversity and Inclusion Committee, National Monitoring Conference. 08/2020-04/2021.

Member, Passaic Valley Sewage Commission/North Bergen Municipality Utility Authority Service Area Supplemental Combined Sewer Overflow Team, 01/2017-12/202019

Advisory Committee, Montclair State University PSEG Institute for Sustainability Studies, 10/2015-12/2018

Strategic Planning Steering Committee, Montclair State University PSEG Institute for Sustainability Studies, 03/2010-6/2013

Steering Committee, The New Jersey Invasive Species Strike Team, 02/2010-6/2013

Technical Advisory Committee, Ausable River Watershed Association, 01/2009-12/2012

Technical Advisory Committee, Boquet River Watershed Association, 01/2010-12/2012
Secretary, Ecological Society of America Mid-Atlantic Chapter, 07/2010-07/2011
Secretary-Elect, Ecological Society of America Mid-Atlantic Chapter, 07/2009-06/2010
Adirondack Park Invasive Plant Program, 06/2002-09/1200
Aquatic Nuisance Species Rapid Response Team, Lake Champlain Basin Program, 08/2006-09/2009
Aquatic Nuisance Species Advisory Committee, Lake Champlain Basin Program, 03/2005-09/2009
Associate Editor, Plattsburgh State University E-journal for Undergraduate Research, 01/2002-08/2009

Mentorship

Postdoc Advisor at Montclair State University

2020-2023 Alessandra Rossi, Montclair State University, Montclair, NJ.
2016-2018 Tsung-Ta Hsu, Montclair State University, Montclair, NJ.
2014-2015 Bianca Wentzell, Dean, Department of Biology, St. Thomas Aquinas College, Sparkill, NY.
2010-2012 Di Chen, Research Professor, Department of Biochemical Engineering, University of Michigan, Ann Arbor, MI.

Thesis Advisor at Montclair State University

2023-present M.S. thesis advisor Destiny Devlin
2020-present Ph.D. thesis advisor Nicole Bergen
2023-2024 Ph.D. thesis advisor Kathryn Cahalane
2016-2023 Ph.D. thesis advisor Yaritza Acosta
2021-2022 M.S. thesis advisor John Thraen
2020-2022 M.S. thesis advisor Kyle Clonan
2020-2022 Ph.D. thesis advisor Molly Hillenbrand
2019-2021 M.S. thesis advisor Stephanie Getto
2019-2022 M.S. thesis advisor Melissa Mazzaro
2021-2021 Ph.D. thesis advisor Oluwafemi Soetan
2019-2021 M.S. thesis advisor Stephanie Beck
2014-2020 Ph.D. thesis advisor Alessandra Rossi
2018-2020 M.S. thesis advisor Molly Hillenbrand
2017-2019 Ph.D. thesis advisor Kevin Zerbe
2015-2017 M.S. thesis advisor Nicole Bergen
2013-2016 M.S. thesis advisor Yaritza Acosta
2011-2017 Ph.D. thesis advisor Natalie Sherwood
2011-2017 M.S. thesis advisor Michael Levinson
2014-2015 M.S. thesis advisor Matt Newton
2012-2014 M.S. thesis advisor Kelly Tiece
2012-2014 M.S. thesis advisor Marco Finocchiaro
2011-2013 M.S. thesis advisor Gabriel Jimenez.
2011-2013 M.S. thesis advisor Tanya Sulikowski
2010-2014 M.S. thesis advisor Laura Ruggeri

2010-2012 M. S. thesis advisor Natalie Sherwood

Graduate Thesis Committee Member at Montclair State University

2023-2024 M.S. thesis committee member, Cydney Wolff
2021-2022 M.S. thesis committee member, Nathan Klunk
2020-2021 M.S. thesis committee member, Idali Hanson
2020-2021 M.S. thesis committee member, Emily Stone
2020-2020 M.S. thesis committee member, Xenia Neal
2019-2020 M.S. thesis committee member, Sarah Hoffman
2019-2020 M.S. thesis committee member, Erika Bernal
2018-2019 M.S. thesis committee member, Julia Kobelt
2016-2020 Ph.D. thesis committee member, Richard James
2015-2018 M.S. thesis committee member, Lauren Liddy
2016-2016 M.S. thesis committee member, Alyssa Forget
2015-2017 M.S. thesis committee member, Matthew Khan
2014-2015 M.S. thesis committee member, Kaitlyn Scrudato
2013-2017 Ph.D. thesis committee member, Pricilia Iranah
2011-2015 Ph.D. thesis committee member, Yu Qian.
2012-2013 Ph.D. thesis committee member, Sydney Opondo Oluoch
2012-2014 M.S. thesis committee member, Christie Castellano
2011-2016 M.S. thesis committee member, Maria Madsen
2012-2013 M.S. thesis committee member, Alexandra Peri
2012-2013 M.A. non-thesis committee member, Kelli Kovacevic
2011-2013 M.S. thesis committee member, Adam Piombino
2011-2012 M.S. thesis committee member, Lisa Cummins
2010-2011 M.S. thesis committee member, Monica Buesser
2010-2011 M.S. thesis committee member, Erika Koelmel
2009-2010 M.S. thesis committee member, Ben Ondimu
2009-2010 M.A. non-thesis committee member, Christina Soman

Non-thesis Graduate Research Mentor at Montclair State University

2022 M.S. non-thesis committee member, Nicole Starke
2018 M.S. student research Sean Taylor
2017 Ph.D. student research, Kevin Zerbe
2015 Ph.D. student research, Alessandra Rossi
2015 M.S. student research Yaritza Acosta
2015 M.A. student research, Kassandra Archer
2014 Ph.D. student research, Natalie Sherwood
2014 M.A. student research, Kassandra Archer
2013 M.S. student research, Kelly Triage
2013 M.A. student research, Kassandra Archer
2013 M.A. student research, Roger Gonzalez
2012 M.A. student research, Allison Baldowski
2012 M.A. student research, Jerry Tan
2012 M.S. student research, Marco Finocchiaro
2010 Ph.D. student research, Catherine Alexandar

- 2010 Ph.D. student research, Rocio Duchesne Onoro
- 2010 M.A. student research, Brian Mikucki
- 2010 M.S. student research, Jennifer Paredes
- 2010 M.A. student research, Christina Soman

Science Honors Innovation Program (SHIP) Research Advisor at Montclair State University

- 2012-2014 SHIP student, Lindsey Mirrer
- 2011-2013 SHIP student, Merari Mejia
- 2010-2012 SHIP student, Stephanie Lear

Undergraduate Research Advisor at Montclair State University

- 2020 B.S. student research, Kenneth Hamel
- 2018 B.S. student research, Melissa Mazzaro
- 2017 B.S. student research, Melissa Mazzaro
- 2017 B.S. student research, Nicole Provost
- 2016 B.S. student research, Nicole Provost
- 2013 B.S. student research, Jayesh Desai
- 2013 B.S. student research, Myla Ramirez
- 2013 B.S. student research, Lindsey Mirrer
- 2013 B.S. student research, Matthew Newton
- 2013 B.S. student research, Daniel Kosciuszko
- 2012 B.S. student research, Merari Mejia
- 2012 B.S. student research, Justin Sabas
- 2011 B.S. student research, Marco Finocchiaro
- 2010 B.S. student research, Jikai Xu
- 2010 B.S. student research, Shyam Patel
- 2010 B.S. student research, Stephanie Lear

* Additionally, sponsored 39 undergraduate independent study research at SUNY Plattsburgh between 2000 and 2009.

Research Experience for Undergraduates Program Mentor

- 2013 Paul Tomasula, Sussex County Community College
- 2013 Myla Ramirez, Montclair State University
- 2013 Elizabeth Lipps, Southern Methodist University
- 2012 Erica Parker, Towson University
- 2012 David Mason, Richard Stockton University
- 2011 Marco Finocchiaro, Montclair State University
- 2011 Jennifer Cocciardi, New York University
- 2011 Scott Evans, SUNY Geneseo
- 2003 Rachel Ruppel, SUNY ESF
- 2003 Karen Setty, University of Dayton
- 2002 Anna Bourakovsky, University of Maine
- 2002 Clara Englert, Ohio Wesleyan University
- 2002 Malia Leonard, SUNY Plattsburgh
- 2002 Katherine Vazquez, SUNY Plattsburgh

2001 Kaitlin Bars, SUNY Plattsburgh
2001 Jamie Bellona, Washington State University
2001 Sacha Maxwell, Mount Holyoke College

Internship Sponsor for the AmeriCorp Program

2020-2021 Peter Valvo
2020-2021 Jackson Bianchi
2020-2021 Kaitlynn Pinero
2020-2021 Jadelles Nunez
2020-2020 Christopher Shea
2020-2020 Mary Birrer
2020-2020 Dina Jones
2020-2020 Anna-Marie Hope