

CURRICULUM VITAE

MEIYIN WU

Director, Passaic River Institute
Professor, Department of Biology
Montclair State University, Montclair, NJ

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.
Teach Aquatic Biological Processes (AQUA 351), Aquatic Ecology (BIOL 461), Colloquium (BIOL 492), Ecology (BIOL 570), Wetland Ecology (BIOL 572), Selected Topics in Biology (BIOL 586), and Graduate Colloquium (BIOL 592).

2012-present. Director, Passaic River Institute, 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.

2009-2014. Associate Professor, Department of Biology and Molecular Biology, Montclair State University, Montclair, NJ. Taught Introduction to Ecology (BIOL 213), Aquatic Biological Processes, (AQUA 351), Aquatic Ecology (BIOL 461), Selected Topics in Biology (BIOL 486), Ecology (BIOL 570), Wetland Ecology (BIOL 572), Selected Topics in Biology (BIOL 586), and Graduate Colloquium (BIOL 592).

2006-2009. Associate Professor, Center for Earth and Environmental Science, State University of New York at Plattsburgh, Plattsburgh, NY. Taught Ecology (BIO/ENV 303/304), Ecology Laboratory (BIO/ENV 304 Lab), Wetlands Ecology and Management (ENV 339), and Wetlands Ecology and Management Laboratory (ENV 339 Lab).

2000-2006. Assistant Professor, Center for Earth and Environmental Science, State University of New York at Plattsburgh, Plattsburgh, NY. Taught Ecology (BIO/ENV 303/304),

Ecology Laboratory (BIO/ENV 304 Lab), Wetlands Ecology and Management (ENV 339), and Wetlands Ecology and Management Laboratory (ENV 339 Lab).

1997-1998. Visiting Researcher, Bodega Marine Laboratory, University of California, Davis, Bodega Bay, CA. Conducted a project on biological control of *Spartina anglica*.

1996-1997. Graduate Assistant, Department of Natural Resource Science, Washington State University, Pullman, WA.

1993-1995. Research Assistant. State of Washington Water Research Center, Pullman, WA, Conducted Liberty Lake, Newman Lake, and Saranac River restoration projects.

1991-1992. Research Assistant, Department of Natural Resource Science, Chinese Culture University, Taipei, Taiwan. Conducted environmental impact assessment of Tai-Chaon Power Plant, Taiwan.

Research Awards, Contracts and Grants

2018-2020 New York and New Jersey Harbor and Estuary Program, “Stopping trash where it starts”. (\$19,000). M Wu.

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) Tsair-Fuh 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 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 Sate 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.

2018-2021 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 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. (\$5,000). Evaluating an Algae Counting and Identification System, FlowCam Cyano.

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.

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. Tiece, Co-PI.
- 2013-2014 New Jersey Department of Environmental Protection, “Environmental Education; wildlife habitat permeability on urban landscape.” (\$3,500). M.Wu, PI. J, Tiece 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.

Education Awards and Grants

2019. Victoria Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$30,000).
2018. The Landsberger Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$30,000).
2018. PSEG SPARK Program. (\$15,000)
2018. Victoria Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$15,000).
2017. The Landsberger Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$20,000).

2017. Victoria Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$15,000).

2017. PSEG SPARK Program. (\$15,000)

2017. Investors Bank Charitable Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$5,000).

2017. Covanta Essex Company. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$2,000).

2016. Victoria Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$15,000).

2016. PSEG SPARK Program. (\$15,000)

2016. Covanta Essex Company. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$2,000).

2016. The Landsberger Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$20,000).

2016. TD Bank Charitable Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$10,000).

2015. Investors Bank Charitable Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$2,500).

2015. The Landsberger Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$20,000).

2015. TD Bank Charitable Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$10,000).

2015. Victoria Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$15,000).

2015. Covanta Essex Company. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$1,000).

2014. PSEG SPARK Program. (\$20,000)

2014. The Landsberger Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$20,000).

2014. Victoria Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$12,500).

2014. Investors Bank Charitable Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$1,000).

2014. TD Bank Charitable Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$10,000).

2014. Covanta Essex Company. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$5,000).

2013. PSEG SPARK Program. (\$20,000)

2013. The Landsberger Foundation. Environmental Education. (\$5,000).

2013. Hyde and Watson Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$10,000).

2013. TD Bank Charitable Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$10,000).

2013. The Landsberger Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$12,000).

2013. Covanta Essex Company. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$5,000).

2013. Investors Bank Charitable Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$5,000).

2013. Victoria Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$12,500).

2012. Victoria Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$12,500).

2012. Investors Bank Charitable Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$5,000).

2012. Covanta Essex Company. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$5,000).

2012. The Landsberger Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$15,000).

2012. TD Bank Charitable Foundation. Passaic River Basin Eco-Explorers Program in Ecology, Environmental Science and Computer Technology. (\$10,000).

Patent

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

Hsu, T.D., L. Lee, A. Rossi, A. Yussof, N. Lawler, M. Wu. Accepted. Evaluating microbial water quality and potential sources of fecal contamination in the Musconetcong River Watershed in New Jersey, U.S.A. *Advances in Microbiology*.

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.

Pallis, T., S. Domber, R. Bousenberry, R. Filo, K. S. Walz, B. Henning, Y. A. Caraballo and M. Wu. 2017. Springs of New Jersey, Open-File Report OFR 17-1. New Jersey Department of Environmental Protection, Water Resources Management, New Jersey Geological & Water Survey, Trenton, NJ, for the United States Environmental Protection Agency, State Wetlands Protection Development Grant, Section 104(B)(3); CFDA No. 66.461, CD97225809, 198 pages

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. Haghjoo, 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. Northeaster 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.
- Wu, M., S. Hacker, D. Aryer, and D.R. Strong. 1999. Potential of *Prokelisia* spp. as biological control agents of English cordgrass, *Spartina anglica*. *Biological Control* 16 (3): 267-273.
- Nakano, M., M. Wu, and S. Chen. 1999. Nitrogen removal in a subsurface flow constructed wetland. *Proceeding of the 1999 ASAE Annual International Meeting*. 16 p.
- Strong, D. R., and M. Wu. 1999. American insects feed on English cordgrass. *Biocontrol News and Information* 20 (2): 54.

Books

- Wu, M. and D. Kalma. 2011. *Wetland Plants of the Adirondacks: Herbaceous Plants and Aquatic Plants*. 176 pp.
- Wu, M. and D. Kalma. 2011. *Wetland Plants of the Adirondacks: Ferns, Woody Plants and Graminoids*. 192 pp.

Kalma, D. and M. Wu. 2007. Plant Identification Manual for the Boquet Watershed Wetlands. 492 pp.

King, K., M. Wu, and M. Chen. 1992. Environmental Impact Assessment of Tai-Chaon Power Plant, Taiwan. 267p.

Published Non-Refereed Articles

Wu, M. 2014. Opinion: Superstorm Sandy two years later: The storm next time. The Record. Oct 24, 2014.

Wu, M. and J. Wu. 2006. Ultrasonic Control of Water Chestnuts. Prepared for the “ Rapid Response to *Trapa* Invasions Workshop” organized by the Exotic and Invasive Weed Research, USDA—ARS, Davis, CA.

Franzi, D.A., Adams, K.B., Fuller, R.D., Mihuc, T.B., Romanowicz, E.A., Wu, M., Allen, E.B., and Kramer, S., 2004, An instrumented watershed for undergraduate instruction in hydrogeology and ecology: Online Proceedings of the International Instrumented Watershed Symposium 2004, Oil Sands Environmental Research Network, University of Alberta, Edmonton, Alberta, Canada, 24p.

Wu, M. 2002. Stop the Purple Invaders. BRASS 18(3): 5.

Allen, E. B., S. E. Stroke, D.A. Franzi, and M. Wu. 2002. Watershed Inventory Report, Little Chazy River Watershed Partnership: Lake Champlain Basin Program, 82p.

DVD Production

Hydrology and Vegetation Sampling in Wetlands. 2006, Educational documentation. 17 minutes.

Invasive Plant of the Adirondack. 2008, Educational documentation. 21 minutes.

Selected Papers Presented at Professional Meetings

Hsu, T.D., A. Rossi, N. Lawler, L. Lee and M. Wu. Microbial water quality improvement in Musconetcong Watershed, New Jersey. Water Microbiology Conference 2019, Chapel Hill, North Carolina, May 14-16, 2019.

Wu, M. T.D. Hsu, A. Rossi, K. Olsen, K. Zerbe, M. Hillenbrand, E. Wong, L. Lee, C. Reeves and N. Lawler. Revisiting the Musconetcong River after ten years. 2019 Winter Gathering of the Delaware Watershed Research Initiative, Philadelphia, PA, February 12-13, 2019.

Acosta Caraballo, Y., and M. Wu. Phytoplankton Assemblages in Freshwaters of New Jersey, Association for the Sciences of Limnology and Oceanography, San Juan, PR, February 28, 2019.

- Wu, M. T.D. Hsu, A. Rossi, K. Olsen, K. Zerbe, M. Hillenbrand, E. Wong, L. Lee, C. Reeves and N. Lawler. Revisiting the Musconetcong River after ten years. 2018 Delaware Watershed Research Conference, the Academy of Natural Sciences, Philadelphia, PA, November 29, 2018.
- Olsen, K. J. Aguilar, K. Zerbe, and M. Wu. Characterization of the organic matter found in the suspended solids of the Musconetcong River, NJ, using Pyrolysis-GC/MS. 2018 Delaware Watershed Research Conference, the Academy of Natural Sciences, Philadelphia, PA, November 29, 2018.
- Zerbe, K. D. Hsu, A. Rossi, K. Olsen, and M. Wu. Habitat suitability for the American shad (*Alosa sapidissima*) through the determination of aquatic organism passage and water quality in the Musconetcong River, New Jersey. 2018 Delaware Watershed Research Conference, the Academy of Natural Sciences, Philadelphia, PA, November 29, 2018.
- Miller, J., A. Hunt and M. Wu. Local involvement and social elements in bacterial management along the Musconetcong River. 2018 Delaware Watershed Research Conference, the Academy of Natural Sciences, Philadelphia, PA, November 29, 2018.
- Zerbe, K., Sherwood, N., T. Hsu, and M. Wu. Stream crossing structure's effects on aquatic organism passage in two northern New Jersey river systems. 2018 Northeastern Transportation and Wildlife Conference, UMass Amherst, Amherst, MA, September 9-12, 2018.
- 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.
- Hsu, T., A. Rossi, K. Olsen, N. Lawler, L. Lee. and M. Wu. 2018. Evaluating effectiveness of restoration practices for water quality impairment in the Musconetcong River Watershed, New Jersey, USA. The Association for the Sciences of Limnology and Oceanography 2018 Summer Meeting, Victoria, BC, Canada, June 10-15, 2-018.
- Acosta Caraballo, Y., and M. Wu. Phytoplankton Assemblages in Freshwaters of New Jersey, New Jersey Water Environment Association, Atlantic City, NJ, May 9, 2018.
- Provost, N., and M. Wu. Spatial and Temporal Changes of Water Quality in New Jersey American Water Reservoir, New Jersey Water Environment Association, Atlantic City, NJ, May 9, 2018.
- 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.
- Provost, N., and M. Wu. Spatial and Temporal Changes of Water Quality in New Jersey American Water Reservoir, Ecological Society of America Mid-Atlantic Chapter, Rutgers University, NJ, April 7, 2018.
- 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.
- Bergen, N., and M. Wu. Evaluating the Success and Monitoring the Usage of Wildlife Crossing Structures in Bedminster, New Jersey, Ecological Society of America Mid-Atlantic Chapter, Rutgers University, NJ, April 7, 2018.
- Acosta Caraballo Y. and M. Wu. 2017. Phytoplankton assemblages in selected freshwaters of New Jersey. The 2017 American Geographic Union Meeting, New Orleans, December 11-15, 2017.
- 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.
- Sherwood, N. and M. Wu. 2017. Assessment of the First Herpetofauna Wildlife Crossings in New Jersey. The 2017 Annual Meeting of the Society of Wetland Scientists, San Juan, Puerto Rico, June 5-8, 2017.
- Sherwood, N. and M. Wu. 2016. Mercury contamination in New Jersey's harvested turtles. The 20th Annual meeting of Cross strait Water Resource and Technology, Taipei, Taiwan. October 31-November 1, 2016.

- 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.
- Sherwood, N. M. Wu and P. Lal. 2016. Understanding the recreational harvest of snapping turtles in New Jersey. Passaic River Symposium VI, Montclair NJ, October 13-14, 2016.
- Rossi, A., K. Olsen, B. Wentzell and M. Wu. 2016. A Multidisciplinary environmental assessment of Greenwood Lake (NJ). Passaic River Symposium VI, Montclair NJ, October 13-14, 2016.
- Sherwood, N. M. Wu and P. Weis. 2016. Mercury concentration in Diamondback Terrapins. Passaic River Symposium VI, Montclair NJ, October 13-14, 2016.
- Acosta, Y. and M. Wu. 2016. Macroinvertebrate assemblages in selected New Jersey springs. Passaic River Symposium VI, Montclair NJ, October 13-14, 2016.
- Rossi, A., M. Wu. 2016. The Lake Hopatcong sediment phosphorus study. The 101st Ecological Society of America Annual Meeting, Fort Lauderdale, FL, August 7-12. 2016.
- Sherwood, N., M. Wu. 2016. Assessing mercury concentrations in New Jersey's diamondback terrapins. The 101st Ecological Society of America Annual Meeting, Fort Lauderdale, FL, August 7-12. 2016.
- Acosta, Y., M. Wu. 2016. Macroinvertebrate assemblages in New Jersey Springs. The 101st Ecological Society of America Annual Meeting, Fort Lauderdale, FL, August 7-12. 2016.
- Rossi, A., K. Olsen, B. Wentzel, M. Wu. 2016. A multidisciplinary environmental assessment of Greenwood Lake (NJ). The 101st Ecological Society of America Annual Meeting, Fort Lauderdale, FL, August 7-12. 2016.
- Wu, M. 2015. Study Design: planning new projects for different types of monitoring. NJ Confluence Monitoring Summit, Pennington, NJ, November 13, 2015.
- Sherwood, N., M. Wu. 2015. Aquatic Habitat Connectivity Assessment in New Jersey. NJ Confluence Monitoring Summit, Pennington, NJ, November 13, 2015.
- 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.
- Finocchiaro, M., M. Wu and P. Bologna. 2014. Effects of dominant plant species and water depth on methane fluxes in a freshwater wetland. Passaic River Symposium VI, Montclair NJ, October 9-10, 2014.
- Mirrer 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.
- Lipps, J. P. Tomasula, M. Ramirez, M. Wu, G. Pope, and J. Galster. 2014. Effects of urbanization on water quality of two Jew Jersey Rivers. Passaic River Symposium VI, Montclair NJ, October 9-10, 2014.
- Ramirez, M., J. Lips, P. Tomasula, L. Lee, M. Wu, J. Galster, G. Pope. 2014. Effects of land use on water quality of the Passaic River through coliform bacteria levels. Passaic River Symposium VI, Montclair NJ, October 9-10, 2014.
- Ramirez M., A. Rossi, E. Wong, L. Lee, M. Wu. 2014. Comparison of selected *Enterococcus* and *E. coli* detection methods in recreational waters. Passaic River Symposium VI, Montclair NJ, October 9-10, 2014.
- Newton, M., M. Ramirez, L. Lee, and M. Wu. 2014. PCR based assay for microbial source tracking. Passaic River Symposium VI, Montclair NJ, October 9-10, 2014.

- Balschunat, K., M. Guzman, M. McNicholas, B.N. Muller, J.C. Galster, G. Pope, M. Wu. 2014. The influence of watershed land uses on New Jersey Rivers' discharges and channel characteristics. Passaic River Symposium VI, Montclair NJ, October 9-10, 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. Passaic River Symposium VI, Montclair NJ, October 9-10, 2014.
- Sulikowski, T. and M. Wu. 2014. An examination of the effects of land use and land cover on macroinvertebrate communities at two landscape scales. Passaic River Symposium VI, Montclair NJ, October 9-10, 2014.
- 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. Hagjoo 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, May22-27, 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, August1-6, 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 Presentation

“Phytoplankton assemblages in freshwaters of New Jersey, USA”, Workshop on Water Quality Monitoring and Treatment, Tainan, Taiwan, January 4, 2019.

“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.

“Environmental Assessment of Greenwood Lake”, Greenwood Lake Environmental Commission, West Milford, New Jersey, March 28, 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, 2014.

“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 Rive 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:

“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.

Professional Service

Member, Passaic Valley Sewage Commission/North Bergen Municipality Utility Authority Service Area Supplemental Combined Sewer Overflow Team, 01/17-present

Member, New Jersey Harmful Algal Blooms Research Committee, 05/18-present

Member, United States National Ramsar Committee. 12/15-present

Member, Editorial board of Frontiers in Plant Science, 10/11-present.

Council Member, New Jersey Water Monitoring Council, 09/11-present

Core Committee, Friends of Bonsal Preserve, 10/14-present

Advisory Committee, Montclair State University PSEG Institute for Sustainability Studies, 10/15-12/18

Strategic Planning Steering Committee, Montclair State University PSEG Institute for Sustainability Studies, 03/10-6/13

Steering Committee, The New Jersey Invasive Species Strike Team, 02/10-6/13

Technical Advisory Committee, Ausable River Watershed Association, 01/09-12/12

Technical Advisory Committee, Boquet River Watershed Association, 01/10-12/12

Secretary, Ecological Society of America Mid-Atlantic Chapter, 07/10-07/11

Secretary-Elect, Ecological Society of America Mid-Atlantic Chapter, 07/09-06/10

Adirondack Park Invasive Plant Program, 06/02-09/10

Aquatic Nuisance Species Rapid Response Team, Lake Champlain Basin Program, 08/06-09/09

Aquatic Nuisance Species Advisory Committee, Lake Champlain Basin Program, 03/05-09/09

Associate Editor, Plattsburgh State University E-journal for Undergraduate Research, 01/02-08/09

Environmental Education and Outreach

STEM Night, Rosa Parks Community School. ~250 attendees. May 15, 2018, Orange, NJ.

World Water Day, Montclair State University. ~100 attendees. March 28, 2018, Montclair, NJ.

Sixth Annual Earth Day Event, Paterson Great Falls National Historical Park. ~350 attendees. April 13, 2018, Paterson, NJ.

Wilson Ave School. ~325 attendees. February 6, 2018. Newark, NJ.

Ridge Street School. ~400 attendees. January 11, 2018. Newark, NJ.

Lafayette Street School. ~400 attendees. January 11, 2018. Newark, NJ.

18th Annual Fall Festival, Great Swamp National Wildlife Refuge. ~500 attendees. September 16, 2017, Harding NJ.

Earth Day Celebration, Essex County Environmental Center. ~350 attendees. April 29, 2017, Roseland, NJ.

High School Science Day. April 25, 2017. Montclair, NJ.

Fifth Annual Earth Day Event, Paterson Great Falls National Historical Park, ~300 attendees. April 13, 2017, Paterson, NJ.

Clifton High School Science Day. ~25 attendees. April 7, 2017. Montclair, NJ.

Link Community Charter Summer Opportunities Fair, Link Community School, 288 families March 8, 2017, Newark, NJ.

Wilson Ave. School, 325 students February 24, 2017, Newark, NJ.

Lafayette Street School, ~400 attendees. February 23, 2017, Newark, NJ.

17th Annual Fall Festival, Great Swamp National Wildlife Refuge, ~400 attendees. September 10, 2016, Harding, NJ.

Bedminster Fall Festival. ~500 attendees. September 10, 2016, Bedminster, NJ.

Centennial Bioblitz, Paterson Great Falls National Historical Park, ~300 attendees. August 27, 2016, Paterson, NJ.

Earth Day Cleanup. Great Falls National Historic Park. ~300 attendees. April 22, 2016. Paterson, NJ

World Water Day Pop-Up Workshop. Hillside Elementary School. ~20 attendees. March 22,

2016, Montclair, NJ

New Jersey Interscholastic S.T.E.M. League Competition. Fair Lawn High School. ~100 attendees. February 10, 2016. Fair Lawn, NJ

Ridge Street School. ~200 attendees. January 11, 2016. Newark, NJ

Sussex Avenue School. ~50 attendees. January 12, 2016. Newark, NJ

Lafayette Street School. ~300 attendees. January 29, 2016, Newark, NJ

Rafael Hernandez School. ~200 attendees. February 1, 2016, Newark, NJ

Watershed Education Visit. Brookside Elementary School. ~100 attendees. October 30, 2015. Allendale, NJ

Monarchs on the Move. Fall Festival of Great Swamp National Wildlife Refuge, ~300 attendees, September 12, 2015, Basking Ridge, NJ.

October Fest, Essex County Environmental Center, ~150 attendees, September 26, 2015, Roseland NJ.

Super Science Saturday, ~ 300 attendees, February 28, 2015, Ridgewood, NJ

Sussex Ave. School, ~150 students, February 13, 2015, Newark, NJ

Ridge St. School, ~ 150 students, February 12, 2015, Newark, NJ

Solomon Schechter Day School Science Fair, ~200 attendees, February 3, 2015, New Milford, NJ

Alliance for New Jersey Environmental Education Conference, ~ 200 attendees, January 23-24, 2015, West Windsor, NJ

Lafayette St. School, ~ 150 students, January 14, 2015, Newark, NJ,

Paterson Great Falls Ribbon Cutting Ceremony, ~75 attendees, October 29, 2014, Paterson, NJ

MSU Opening Day, ~ 150 attendees, September 2, 2014, Montclair, NJ

City of Water Day, Date July 12, 2014, Liberty State Park, NJ

Newark River Day, ~ 300 attendees, June 14, 2014, Newark, NJ

Rain Barrel Workshop at Montclair Community Farm, ~ 25 attendees, June 22, 2014, Montclair, NJ

Union County Bio-Blitz, June 13-14, 2014, Union County Parks, NJ

Water Quality Day at Bonsal with Montclair Middle School Students, ~ 90 attendees, June 6, 2014, Montclair, NJ

Water Quality Day with Friends of Bonsal, ~ 30 attendees, June 8, 2014, Montclair, NJ

Belleville Middle School Presentation, ~ 60 attendees, June, 9, 2014, Belleville, NJ

Ocean Fun Days, May 18, 2014, Sandy Hook, NJ

Lincoln Elementary School Eco-Fair, April 24, 2014, Caldwell, NJ

Jewish Home Presentations, March 17 and April 28, 2014, River Vale, NJ

Paterson School 7, March 14, 2014, Paterson, NJ

Ridgewood Middle School Super Science Saturday, ~175 attendees, March 8, 2014, Ridgewood, NJ

Presenter at ANJEE, 15 attendees, January 25, 2014, Plainsboro, NJ

Association for New Jersey Environmental Education Conference (ANJEE), ~200 attendees, January 24-25, 2014, Plainsboro, NJ

Ridge Street School, ~ 150 attendees, January 21, 2014, Newark, NJ

Sussex Avenue School, ~50 attendee, January 13, Newark NJ

Paterson School 7, ~20 attendee, January 9, 2014, Paterson, NJ

Lafayette Street School, ~200 attendee, January 8, 2014, Newark, NJ

Paterson School 7, ~20 attendee, January 9, 2014, Paterson, NJ

Sussex Avenue School, ~50 attendee, January 13, Newark NJ

Sierra Club Meeting, ~10 attendees, October 9, 2013, Verona, NJ

Activities Unlimited Meeting, ~ 35 attendees, November 6, 2013, Haworth

Essex County Environmental Center, ~350 attendee, October 5, 2013, Roseland, NJ

Montclair Environmental Commission Meeting, ~12 attendees, September 11, 2013, Montclair, NJ

City of Water Day 2013, ~300, July 20, 2013, Liberty State Park, Jersey City, NJ

Cedar Grove Middle School, ~120 attendee, June 17, 2013, Cedar Grove, NJ

Ocean Fun Day, ~500 attendee, June 9, 2013, Sandy Hook, NJ

Sussex Street School, ~70 attendee, April 12, 2013, Newark, NJ

Lafayette Street School, ~350 attendee, March 8, 2013, Newark, NJ

Ridgewood Middle School Super Science Saturday, ~150 attendee, February 9, 2013, Ridgewood, NJ

City of Water Day 2012, ~300 attendee, July 14, 2012, Liberty State Park, Jersey City, NJ

Postdoc Advisor at Montclair State University

Tsung-Ta Hsu, Montclair State University, Montclair, NJ.

Bianca Wentzell, Assistant Professor, Department of Biology, St. Thomas Aquinas College, Sparkill, NY.

Di Chen, Research Professor, Department of Biochemical Engineering, University of Michigan, Ann Arbor, MI.

Thesis Advisor at Montclair State University

2018-present M.S. thesis advisor Molly Hillenbrand

2018-present M.S. thesis advisor Melissa Mazzaro

2017-present Ph.D. thesis advisor Kevin Zerbe

2016-present Ph.D. thesis advisor Yaritza Acosta

2014-present Ph.D. thesis advisor Alessandra Rossi

2015-2017 M.S. thesis advisor Nicole Bergen

2013-2016 M.S. thesis advisor Yaritza Acosta

2011-2017 Ph.D. thesis advisor Natalie Sherwood: New Jersey turtle consumption standards for Mercury.

2011-2017 M.S. thesis advisor Michael Levinson

2014-2015 M.S. thesis advisor Matt Newton

2012-2014 M.S. thesis advisor Kelly Triece: Habitat characteristics of wildlife crossing hotspots in Northern New Jersey

2012-2014 M.S. thesis advisor Marco Finocchiaro: Effects of dominant plant species and water depth on methane fluxes in a freshwater wetland

2011-2013 M.S. thesis advisor Gabriel Jimenez: Effects of ultrasound on microorganisms.

2011-2013 M.S. thesis advisor Tanya Sulikowski: Landscape characteristics affecting stream macroinvertebrate communities in northern New Jersey.

2010-2014 M.S. thesis advisor Laura Ruggeri: Analysis of effectiveness of chemical treatment on *Phragmites australis*

2010-2012 M. S. thesis advisor Natalie Sherwood: Habitat selection by wood turtle, *Glyptemys insculpta*, in New Jersey.

Graduate Thesis Committee Member at Montclair State University

2018-present M.S. thesis committee member, Julia Kobelt
2015-present 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

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 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

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