

Marijke Hecht
School of Environment & Natural Resources
The Ohio State University
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EDUCATION

- Doctor of Philosophy, Learning Sciences & Policy** 2020
University of Pittsburgh School of Education – Pittsburgh, PA
Dissertation: “*Relational processes between people and place: Understanding environmental interest and identity development through a learning ecosystem lens*”
Advisor: Dr. Kevin Crowley
- Master of Science, Botany – Field Naturalist Program** 2002
University of Vermont – Burlington, VT
Master’s Thesis: “*Natural community assessment & recommendations for ecological core areas on the Glebe Mountain Matrix Block,*” submitted to The Nature Conservancy of Vermont
- Bachelor of Arts, Self-designed major** 1996
Hampshire College – Amherst, MA
Division III Senior Thesis: “*Nutrition, agriculture, & science education and their roles in the urban landscape*”

PROFESSIONAL APPOINTMENTS

- The Ohio State University School of Environment & Natural Resources** *current*
Assistant Professor, Environmental Education
Sustainability Institute, Faculty Affiliate
STEAM Factory, Faculty Affiliate
- Penn State University - Greater Allegheny – McKeesport, PA** 2020-2022
Assistant Professor, Recreation Park & Tourism Management
- Pittsburgh Parks Conservancy – Pittsburgh, PA** 2009-2016
Director of Education
- Western Pennsylvania Conservancy – Pittsburgh, PA** 2008-2009
TreeVitalize Pittsburgh Program Director
- Nine Mile Run Watershed Association – Pittsburgh, PA** 2002-2008
Executive Director
- The Nature Conservancy of New York – Troy, NY** 1998, 2000
Field Supervisor

STUDENT RESEARCH SUPERVISION & ADVISING

- The Ohio State University, School of Environment & Natural Resources** *current*
 - Undergraduate faculty mentor for two Natural Resource Management majors
 - Faculty advisor for undergraduate honors student: Inez O’Malley
- Penn State University - Greater Allegheny** 2020-2022
 - Thesis committee member: Erinn Drage, *Understanding Stakeholder Perspectives of Aviation Tourism Growth in the Alaska Range: An Exploration of History, Change, and Sustainable Tourism in National Parks and Gateway Communities* (graduated spring 2021)
 - Undergraduate advisor for all six RPTM undergraduate majors at Greater Allegheny

TEACHING

The Ohio State University, School of Environment & Natural Resources *current*
Assistant Professor, Environmental Education

- ENR 3612 – Introduction to Environmental Education & Communications
- ENR 5194 – Environmental Education in Action

Penn State University - Greater Allegheny *2020-2022*
Assistant Professor, Recreation Park & Tourism Management

- On-campus courses (synchronous)
 - RPTM 120 - Leisure & Human Behavior (face-to-face)
 - RPTM 277 - Inclusive Leisure (face-to-face)
 - RPTM 220 - Sustainability, Society, & Well-being (face-to-face)
 - RPTM 236 - Leadership & Group Dynamics (face-to-face)
 - RPTM 334 - Non-profit Recreation Agency Operations (hybrid)
- World Campus courses (asynchronous & online)
 - RPTM 120 - Leisure & Human Behavior
 - RPTM 220 - Sustainability, Society, & Well-being

University of Pittsburgh *2019*
Teaching Assistant

- Supported instruction and grading for EdD course: Out-of-School Organizational Theory

University of Vermont *2001*
Teaching Assistant

- Led laboratory activities and completed grading for undergraduate Biology class

New York City Board of Education – New York, NY *1996-1999*
Middle School & High School Classroom Teacher

- Taught biology, chemistry, math, and life science in NYC Department of Education (Teach for America Corps member, 1996-1998)
- Developed and co-taught course on chemistry & art culminating in student pieces included in “The Time of Our Lives” exhibition at The New Museum of Contemporary Art (1999)

PUBLICATIONS

Peer-reviewed (* = graduate student)

Hecht, M. & Nelson, T. (2022) Getting “really close”: Relational processes between youth, educators, and more-than-human beings as a unit of analysis. *Environmental Education Research*, 28(9), 1359-1372.

Hecht, M., King, M., & Williams, S. (2022). Co-creating a learning refugia by walking alone and together. *Open rivers: Rethinking water, place, & community*, No. 21.

Drage, E.*, **Hecht, M.**, Taff, B. D., & Newman, P. (2022). Exploring stakeholder perspectives in protected areas and gateway communities: The case of aviation tourism growth in the Alaska Range. *Tourism Recreation Research*, 1–14.

Akiva, T., **Hecht, M.**, & Osai, E. (2021). Arts learning across a city: How ecosystem thinking helps shape understanding of Black-centered and Eurocentric arts programming. *Urban Education*, online first, 1-27.

Hecht, M., & Nelson, T. (2021). Youth, place, and educator practices: Designing program elements to support relational processes and naturalist identity development. *Environmental Education Research*, 27(9), 1401-1420.

- Hecht, M.** (2021). Supporting youth environmental interest and identity development through program infrastructures connecting people and place. In E. de Vries, Y. Hod, & J. Ahn (Eds.), *Proceedings of the 15th International Conference of the Learning Sciences - ICLS 2021* (pp. 893-894). Bochum, Germany: International Society of the Learning Sciences.
- Hecht, M.** (2021). Creating cultural refugia to transform the boundaries of science. *Cultural Studies of Science Education*, 16, 549-556.
- Hecht, M.** (2020). Relational processes between people and place: Understanding environmental interest and identity through a learning ecosystem lens. *Environmental Education Research*, 26(7), 1060-1061.
- Hecht, M., & Crowley, K.** (2020). Unpacking the learning ecosystem framework: Lessons from the adaptive management of biological systems. *Journal of the Learning Sciences*, 2(29), 264-284.
- Hecht, M., Knutson, K., Crowley, K., Lyons, M., McShea, P., & Giarratani, L.** (2020). “How could the dinosaurs be so close to the future?”: How natural history museum educators tackle deep time. *Curator: The Museum Journal*, 63(1), 39-54.
- Hecht, M., Crowley, K., & Russell, J.** (2020). Decentering humans in the learning sciences: The role of nonhuman nature and place in learning ecosystems. In M. Gresalfi & I. S. Horn (Eds.), *The Interdisciplinarity of the Learning Sciences, 14th International Conference of the Learning Sciences (ICLS) 2020*, Volume 1 (pp. 501-504). Nashville, Tennessee: International Society of the Learning Sciences.
- Hecht, M., Knutson, K., & Crowley, K.** (2019). Becoming a naturalist: Interest development across the learning ecology. *Science Education*, 103(3), 691-713.
- Akiva, T., Crowley, K., Russell, J. L., & **Hecht, M.** (2018). Leadership in out-of-school learning: The educational doctorate program at the University of Pittsburgh. *International Journal for Research on Extended Education*, 5(2), 217-220.
- Bain, D. J., Copeland, E. M., Divers, M. T., **Hecht, M.**, et al. (2014). Characterizing a major urban stream restoration project: Nine Mile Run (Pittsburgh, Pennsylvania, USA). *Journal of the American Water Resources Association*, 50(6), 1608-1621.

Book chapters

- Akiva, T., **Hecht, M.**, & Blyth, D.A. (2022). Using a learning and development ecosystem framework to advance the youth fields. In T. Akiva & K. Robinson (Eds.), *It takes an ecosystem: Understanding the people, places and possibilities of learning and development across settings* (pp. 13-36). Information Age Publishing.
- Brown, J., Byron, M., Corrao, S., **Hecht, M.**, & King, A. (2015). Urban parks as classrooms. In A. Russ (Ed.), *Urban Environmental Education* (pp. 39-42). Cornell University Civic Ecology Lab/North American Association for Environmental Education/EE Capacity.
<https://naaee.org/sites/default/files/uee-2015.pdf>

Practitioner-focused

- Hecht, M., & Colvin, S.** (2018). Getting dirty: Little nature in informal learning spaces. *Voice of Youth Advocates*. 41(1), 34-36.
- Hecht, M.** (2012). Education through restoration: Creating meaningful service-learning projects in the parks. *Community Works Journal*. <https://magazine.communityworksinstitute.org/education-through-restoration-creating-meaningful-student-projects-in-the-parks/>

Reports

- Akiva, T., **Hecht, M.**, & Osai, E. (2019, September). *Creative Learning in Pittsburgh* [Report prepared for The Heinz Endowments.] Pittsburgh, PA: University of Pittsburgh. <https://tiny.cc/CLPggh>

Akiva, T., DeMand, A., **Hecht, M.**, & McNamara, A. (2017). *Simple Interactions 2.0: Initial findings from a randomized control trial*. Pittsburgh, PA: University of Pittsburgh.

Akiva, T., DeMand, A., Colvin, S., Delale-O'Connor, L., **Hecht, M.**, & McNamara, A. (2017). *Evaluation of the 2016 Pittsburgh Learn and Earn summer youth employment program*. Pittsburgh, PA: University of Pittsburgh.

General audience

Akiva, T. & **Hecht, M.** (2022, February 2). Ecosystems for learning and development: In Pittsburgh and everywhere. *Remake Learning Blog*. <https://remakelearning.org/blog/2022/02/02/ecosystems-for-learning-and-development/>

Hecht, M., Hicks, J., & Kubis, A. (2021, March 12). Better nature, better relationship, better planet: A conversation with a Pittsburgh urban ecologist [Audio podcast episode]. In *Source Podcast*. <https://www.publicsource.org/better-nature-better-relationship-better-planet-a-conversation-with-a-pittsburgh-urban-ecologist/>

Hecht, M. (2020, April 15). The coronavirus exposed inequities across Pittsburgh Public Schools. To parents like me, it also revealed the district's inability to imagine learning outside of schools. *Public Source*. <https://www.publicsource.org/the-coronavirus-exposed-inequities-across-pittsburgh-public-schools-to-parents-like-me-it-also-revealed-the-districts-inability-to-imagine-learning-outside-of-schools/>

Hecht, M. (2015, August 25). Send children outside: Nature is the best training ground for STEM careers. *Pittsburgh Post-Gazette*, pp. D1.

Hecht, M. (2006, Fall). Nine Mile Rebirth. *H: The Magazine of The Heinz Endowments*, pp. 20-27.

Falck, Z., & **Hecht, M.** (2006, Spring). The sewerage and salvaging of Nine Mile Run. *Western Pennsylvania History*, pp. 40-50.

Hecht, M. (2002, Winter). Soil mapping: Getting down to earth with a soil scientist. *Northern Woodlands*, pp. 54-57.

PRESENTATIONS & WORKSHOPS

Invited

Hecht, M. (2022, November). *Opportunities for urban environmental education across the city landscape*. Lecture for Cornell University Civic Ecology Lab MOOC on Urban Environmental Education.

Hecht, M. (2022, October). *Using Qualitative Research to Understand Environmental Identity Development*. Seminar for Slippery Rock University Park & Resource Management Graduate Program.

Hecht, M. (2022, October). *Bridging natural and social sciences to explore environmental interest & identity*. Graduate seminar for The Ohio State University School of Environment and Natural Resources.

Hecht, M., King, M., & Williams, S. (2021, July). *Learning refugia*. Workshop at the Association for the Study of Literature and Environment Conference. [Held online due to COVID-19; <https://www.youtube.com/watch?v=z2bytjePPeY>].

Nelson, T., & **Hecht, M.**, Weilbacher, M., & McCracken, B. (2021, March). *Opportunities for action*. Panel discussion at the Pennsylvania Association for Environmental Education conference. [Conference held online due to COVID-19.]

Hecht, M. (2019, November). *Opportunities for urban environmental education across the city landscape*. Lecture for Cornell University Civic Ecology Lab MOOC on Urban Environmental Education.

- Hecht, M.** (2018, November). *Environmental education in cities: Challenges and opportunities*. Lecture for Cornell University Civic Ecology Lab MOOC on Urban Environmental Education.
- Hecht, M.** (2017, September). Keynote address at the *Pittsburgh Association for the Education of the Young Child Unconference: Get Dirty!*, Pittsburgh, PA.
- Hecht, M.** (2015, April). *Place-based learning in parks, schools, & neighborhoods*. Panelist at Greater & Greener: Innovative Parks, Vibrant Cities conference of the City Parks Alliance, San Francisco, CA.
- Hecht, M., Brown, J., & Zellie, H.** (2014, March). *Teaching environmental education in the city*. Panelist at Pennsylvania Association of Environmental Educators Conference, Bolivar, PA.
- Carter, M., **Hecht, M.**, Butcher, A., Guenter, T., & Taylor, S. (2013, April). *The power of parks*. Presentation at Green Building Alliance Inspire Speaker Series, Pittsburgh, PA.
<https://www.youtube.com/watch?v=G61A6XMUb8A>
- Hecht, M., Barker, J., Cochran, E., & Sechler, G.** (2013, April). *How are buildings of today becoming places of tomorrow?* Panelist at Carnegie Mellon University Engineering Sustainability Conference, Pittsburgh, PA.
- Hecht, M.** (2008, September). *Getting credit for trees*. Panelist at International Urban Parks Conference: Parks and the Health of Great Cities, Pittsburgh, PA.
- Hecht, M.** (2007, March). *Restoring urban nature*. Panelist at The Lincoln Institute of Land Policy Conference: A More Humane Metropolis, Pittsburgh, PA.
- Hecht, M.** (2004, October). *Downtown & dirty: Urban park renewal*. Panelist at the 14th Annual Society for Environmental Journalists Conference, Pittsburgh, PA.
- Hecht, M.** (2004, August). *Cultivating uncommon allies: Community forestry in an urban watershed*. Presentation at the 80th Annual International Society of Arboriculture Conference, Pittsburgh, PA.

Additional peer-reviewed conference presentations and workshops

- Hecht, M.** and Jadallah, C. (2022, October). *Learning with water: Centering human-more-than-human interactions for just social-ecological futures*. Roundtable presented at the North American Association for Environmental Education Research Symposium, Tucson, AZ.
- Lawson, D., Hunter, R. & **Hecht, M.** (2022, October). *Looking forward: Issues and cross-cutting questions from environmental education researcher perspectives*. Workshop presented at the North American Association for Environmental Education Research Symposium, Tucson, AZ.
- Lawson, D., Hunter, R. & **Hecht, M.** (2022, October). *Looking forward: Issues and cross-cutting questions from environmental education practitioner perspectives*. Workshop presented at the North American Association for Environmental Education Annual Conference, Tucson, AZ.
- Hecht, M., Sherry-Wagner, J., Jadallah, C., McDaid, N., Silvera Seamans, G., Bell, P., Cassone McGowan, V., & Price, N.** (2021, October). *Centering human and more-than-human interactions across wildly different educational contexts*. Workshop presented at the North American Association for Environmental Education Research Symposium. [Conference held online due to COVID-19].
- Hecht, M., King, M., & Williams, S.** (2021, July). *Living, learning, and loving our way to refugia*. Experimental Workshop at Connected Learning Summit 2021 [Conference held online due to COVID-19].
- Hecht, M.** (2021, June). *Supporting youth environmental interest and identity development through program infrastructures that connect people and place*. Poster presented at the International Conference of the Learning Sciences (ISLS), 2nd Place Winner in Poster Contest. [Conference held online due to COVID-19].

- Perry, J., Akiva, T., & **Hecht, M.** (2021, April). *Making scholarship a tool for change: Repurposing literature in EdD programs*. Paper presented at the American Educational Research Association Annual Meeting. [Conference held online due to COVID-19].
- Hecht, M.**, Crowley, K., & Russell, J. L. (2020, June). *Decentering humans in the learning sciences: The role of nonhuman nature and place in learning ecosystems*. International Conference of the Learning Sciences, Nashville, TN. [Conference held online due to COVID-19]
- Hecht, M.**, Akiva, T., & Osai, E. (2020, April). *Forging equity in a citywide creative learning ecosystem: Responding to funding shifts as natural disturbance*. [Roundtable session]. American Educational Research Association Annual Meeting, San Francisco, CA. <http://tinyurl.com/wlok2yz> [Proposal accepted, but conference cancelled due to COVID-19].
- Hecht M.**, & Nelson, T. (2019, October). *Navigating a research-practice partnership in an urban environmental education program*. Panel presentation at the North American Association for Environmental Education Research Symposium, Lexington, KY.
- Hecht, M.**, Howison, M., Osai, E., & Akiva, T. (2019, October). *Mobilizing for creative learning: A citywide approach*. Showcase presentation at the Connected Learning Summit, UC Irvine, CA.
- Hecht, M.** (2019, October). *More than just a bunch of parts: Expanding the learning ecosystem framework using insights from biological systems*. Ignite Talk at the Connected Learning Summit, UC Irvine, CA. <https://www.youtube.com/watch?v=jFoH0QXC9I8>
- Hartley, J., Armstrong, A., Bowers, N., **Hecht, M.**, Hunter, R., Jackson S., Lawson, D., & Sadan, N. (2019, October). *Professional development workshop for graduate students and early career professionals in environmental education*. Workshop presented at the North American Association for Environmental Education Research Symposium, Lexington, KY.
- Hecht, M.**, Nelson, T., Cephas, N., Thomas, B., Layman, J., & Schmutte, A. (2019, October). *Integrating education into conservation planning to foster stewardship*. Symposium participant at the 2019 Natural Areas Conference, Pittsburgh, PA.
- Hecht, M.**, Knutson, K., & Crowley, K. (2018, October). *Becoming a naturalist: Interest development across the learning ecology*. Poster presented at the North American Association for Environmental Education Research Symposium, Spokane, WA.
- Hecht, M.** (2018, March). *A research-practice partnership for informal learning: Creating pathways for 21st century naturalists*. Presentation at the University of Pittsburgh Conference for Graduate Students in Education annual conference, Pittsburgh, PA.
- Hecht, M.**, Crowley, K. Giarratani, L., Knutson, K. Lyon, M. & Tonsor, S. (2017, October). *What is a 21st Century Naturalist?* Workshop at the International Committee for Museums and Collections of Natural History, Pittsburgh, PA.
- Hecht, M.**, Tonsor, S., Crowley, K., & Knutson, K. (2017, October). *Developing 21st century naturalists: A research-practice partnership*. Presentation at the North American Association for Environmental Education Research Symposium, San Juan, Puerto Rico. [Proposal accepted, but conference cancelled due to Hurricane Maria].
- Trovato, C., Akiva, T., & **Hecht, M.** (2017, June). *Designing an out-of-school learning EdD program*. Presentation at the Carnegie Program on the Education Doctorate Convening, Pittsburgh, PA.
- Crowley, K. Giarratani, L., **Hecht, M.**, Knutson, K. Lyon, M. & Tonsor, S. (2017, April). *Bringing research and practice together in a museum: A partnership to develop informal learning experiences for the 21st Century Naturalist*. Poster presented at the American Educational Research Association, San Antonio, TX.

- Culley, P., **Hecht, M.**, & Shaltes, N. (2015, September). *Vetting to specifications: Using the design phase for the LBC materials petal*. Presentation at the International Living Future Institute: Living Products Expo, Pittsburgh, PA.
- Hecht, M.** (2014, October). *City parks as classrooms: Engaging urban schools in environmental education*. Presentation at the North American Association for Environmental Education, Ottawa, Ontario, Canada.
- Bonci, F., **Hecht, M.**, & Rademacher, S. (2014, April). *The path to park sustainability: From restoration to innovation*. Presentation at the 2014 PA-DE American Society of Landscape Architects Annual Meeting, Nemaquin, PA.
- Aumer, R., **Hecht, M.**, & Shaltes, N. (2013, November). *Frick Environmental Center: A case study*. Presentation at the International Living Future Institute: Net Zero Water Forum, Philadelphia, PA.
- Rademacher, S., **Hecht, M.**, & Bonci, F. (2013, July). *Clarifying history: Environmental center at Frick Park*. Presentation at the 2013 PA Statewide Conference on Heritage, Pittsburgh, PA.
- Hecht, M.** (2011, March). *City parks as classrooms*. Presentation at the Pennsylvania Association of Environmental Educators Conference, Ligonier, PA.
- Hecht, M.** (2010, March). *Urban EcoStewards: Building volunteer programs in parks*. Presentation at the 63rd Annual PA Recreation & Parks Society Conference, Seven Springs, PA.
- Hecht, M.** (2008, November). *Recruiting and maintaining volunteers*. Presentation at the 16th Annual PA Urban and Community Forestry Conference, Pittsburgh, PA.
- Hecht, M.** (2008, January). *Nine Mile Run valley restoration*. Presentation at the Society for Ecological Restoration Mid-Atlantic Chapter Conference, Philadelphia, PA.
- Hecht, M.** (2006, October). *Urban & community forestry in Pittsburgh*. Presentation at the Society for American Foresters National Convention, Pittsburgh, PA.
- Hecht, M.** (2005, October). *Restoration = Access: Nine Mile Run case study*. Presentation at the Canaan Valley Institute Annual Conference, Morgantown, WV.

SELECTED GRANTS

Research funding

Penn State University Greater Allegheny – McKeesport, PA

- Martin, D. (Co-Principal Investigator), **Hecht, M.** (Co-Principal Investigator), Johnson, M. (Co-Principal Investigator), Hill, K. (Co-Principal Investigator), Grozinger, C. (Co-Principal Investigator). "Collaborative Research: Modeling in Place: Agent Based Modeling Games to facilitate learning of complex social and ecological networks of insects in informal learning environments," National Science Foundation – Advancing Informal Science Learning (AISL). Total requested: \$2,414,518.00. (Proposal submitted 2022, not funded).
- Lawson, D.F., McClain, L., & **Hecht, M.** Amount: \$50,000. Reclaiming nature through authentic conversations: Leveraging intergenerational learning and environmental education to advance racial equity. Spencer Conference Grant. The Spencer Foundation. (Proposal submitted 2020, not funded).

University of Pittsburgh – Pittsburgh, PA

- Dissertation funding
 - Faculty Student Research Grant from School of Education, \$3,000 (2019)
 - Council for Graduate Students in Education research grant, \$400 (2019)
- Council of Graduate Students in Education Colloquium & Interdisciplinary Workshop
 - Guest workshop with Dr. Ananda Marin (Assistant Professor of Qualitative Research Methods in Education, UCLA) funded by Vice Provost for Graduate Studies, \$2,500 (2019)

University of Vermont – Burlington, VT

- Master's project support, Conservation and Research Foundation – New London, CT, \$500 (2001)

Program & project funding**Pittsburgh Parks Conservancy – Pittsburgh, PA**

- Frick Environmental Center capital project
 - Commonwealth of Pennsylvania Redevelopment Assistance Capital Program (RACP), \$1,700,000 (2016)
 - PA Department of Community and Economic Development, \$1,590,000 (2014-2016)
 - The Heinz Endowments, \$1,500,000 (2014-2016)
 - Eden Hall Foundation, \$1,500,000 (2011-2016)
 - Additional government and foundation grants totaling \$12,710,000 (2010-2016)
- Environmental education programming
 - PNC Foundation, Buzzword Early Literacy, \$125,000 (2015-2016)
 - The Pittsburgh Foundation, High School Young Naturalists, \$75,000 (2015-2016)
 - Grable Foundation, general programming, \$140,000 (2012-2016)
 - Additional public and private grants and individual gifts totaling over \$350,000 (2009-2016)

Western Pennsylvania Conservancy – Pittsburgh, PA

- TreeVitalize program to plant urban street trees
 - Pennsylvania Department of Conservation and Natural Resources, \$730,000 (2008-2009)
 - The Heinz Endowments, \$250,000 (2008-2009)
 - Colcom Foundation, \$250,000 (2008-2009)
 - Richard King Mellon Foundation, \$150,000 (2008-2009)
 - PA Infrastructure Investment Authority (PennVest), to plant trees in public rights-of-way for stormwater management, \$2,400,000 (2009-2011, project completed after leaving position)
 - The Home Depot Foundation, volunteer engagement in plantings, \$50,000 (2009)

Nine Mile Run Watershed Association – Pittsburgh, PA

- Nine Mile Run Rain Barrel Initiative
 - PA Department of Environmental Protection 'Growing Greener', \$406,439 (2006-2007)
 - Richard King Mellon Foundation, \$400,000 (2006-2010, project completed after leaving position)
- Regent Square Gateway design project, Anonymous private family foundation, \$150,000 (2007)
- Nine Mile Run Stream Monitoring, U.S. Steel Foundation, \$18,500 (2007)
- Watershed environmental education programming, PA Department of Environmental Protection 'Growing Greener', \$35,000 (2003-2004)
- Annual operating support
 - The Heinz Endowments, \$450,000 (2006-2008)
 - The Pittsburgh Foundation via the Nine Mile Run Fund, \$200,000 (2003-2004)
 - The Heinz Endowments, start-up organizational support, \$50,000 (2003)
- Additional public and private funds and individual gifts for operating and program support totaling approximately \$100,000 (2002-2008)

UNIVERSITY SERVICE

The Ohio State University (current)

School of Environment & Natural Resources

- Olentangy River Wetland Research Park Leadership Committee (2022-present)

College of Food, Agriculture, and Environmental Science

- Academic Search Committee – 4H STEM Specialist (2022-2023)

Penn State University (2020-2022)

- Recreation Park and Tourism Management Graduate Faculty
- PSU Sustainability Institute Faculty Affiliate (2020-2022)
- Recreation Park and Tourism Management Commonwealth Campus Consortium (2020-2022)
- Penn State Greater Allegheny Green Team (2021-2022)
- Penn State Greater Allegheny Student Life Committee (2021-2022)
- Penn State Greater Allegheny Curricular Affairs Committee (2020-2021)
- RPTM Faculty Search Committee for Penn State Abington (2020-2021)

University of Pittsburgh (2018-2020)

- Chancellor's Advisory Council on Sustainability – Graduate Student Representative
- Council of Graduate Students in Education – Colloquium Committee Co-chair

SERVICE TO THE PROFESSION

Science Educators for Equity, Diversity, & Social Justice (SEEDS)	<i>2022-present</i>
Leadership Committee member	
Elected co-chair – Website & Social Media Committee	
Playful Pittsburgh Collaborative	<i>2013-2016</i>
Co-founder of advocacy group with 20+ organizational members	
Pennsylvania Association for Environmental Educators	<i>2010-2016</i>
Advisory Board member	
Pittsburgh Public Schools Science & Technology Academy	<i>2009-2014</i>
Environment and Energy Occupational Advisory Committee member	
Urban Ecology Collaborative	<i>2002-2010</i>
Founding member, Education Working Group (chair) of 8-city model sharing funded by USDA-Forest Service	

PROFESSIONAL MEMBERSHIPS

- Environmental Education Council of Ohio (EECO)
- International Society for the Learning Sciences (ISLS)
- North American Association for Environmental Education (NAAEE)
- Science Educators for Equity, Diversity, & Social Justice (SEEDS)
- Remake Learning Network (RLN)

REVIEWER

- Journal of Environmental Studies and Sciences (2022)
- Bank Street Occasional Paper Series (2022)
- Environmental Education Research (2021)
- National Science Foundation – Science & Technology Studies (2021, *ad hoc reviewer*)
- North American Association for Environmental Education Research Symposium (2018-present)
- Visitors Studies Journal (2018-2020)
- Cultural Studies in Science Education (2020)
- International Conference on the Learning Sciences (2020)
- American Educational Research Association – Environmental Education SIG (2018)
- Carnegie Science Awards Selection Committee (2017, 2018)

HONORS AND FELLOWSHIPS

International Conference of the Learning Sciences – Bochum, Germany / Online Research poster 2 nd place award	2021
Pennsylvania Association of Environmental Educators’ Outstanding Contribution to Environmental Education Award – Seven Springs, PA For research contributions to environmental education	2020
University of Pittsburgh Center for Urban Education – Pittsburgh, PA Graduate Student Fellow	2017-2020
William B. Stapp Student Scholarship – Lexington, KY For participation in the 48 th Annual NAAEE Research Symposium	2019
Carnegie Science Center Leadership in STEM Education – Pittsburgh, PA For partnering with schools to use city parks as classrooms	2015
PUMP and Pittsburgh Magazine ‘40 Under 40’ – Pittsburgh, PA For environmental leadership in Southwest Pennsylvania	2010
Pennsylvania Environmental Council ‘40 Under 40’ – Harrisburg, PA For environmental leadership in the Commonwealth of Pennsylvania	2010
The Nature Conservancy – Montpelier, VT Hubert Vogelmann Fellow in support of Master’s Project	2001
University of Vermont – Burlington, VT Field Naturalist Fellow in support of graduate studies	2000
Neighborhood Partners Initiative – Bronx, NY Community Service Award for creation of Morris Avenue Community Garden	1998
Hampshire College – Amherst, MA Threshold Award for outstanding undergraduate senior thesis	1996

NON-PROFIT MANAGEMENT EXPERIENCE

Pittsburgh Parks Conservancy – Pittsburgh, PA Director of Education	2009-2016
<ul style="list-style-type: none">• Led education team in development and implementation of environmental education programs using parks as classrooms<ul style="list-style-type: none">- Spearheaded outreach to local schools and districts that prioritized inclusion of marginalized communities to expand and diversify environmental education program participation- Emphasized interdisciplinary, hands-on learning to meet standards for STEM (Science Technology Engineering Math) and ELA (English & Language Arts)- Partnered with public and charter schools to offer ACT 48 professional development credits to K-12 teachers- Annual program reach included<ul style="list-style-type: none">▪ enrollment increase from 2 to 20 schools over 7 years▪ 950+ K-12 children from public, charter, and private schools▪ 400 summer camp participants▪ 1,500 people through adult and family programs- Created culture for program staff and participants that fostered a sense of wonder, an appreciation for the natural world, and a commitment to lifelong learning• Led development of new Frick Environmental Center<ul style="list-style-type: none">- Managed design and construction teams for \$19M urban environmental center	

- Building and site achieved Living Building Challenge & LEED Platinum certification and 8 additional architectural and industry awards, including 2017 AIA Committee on Education in Architecture Award of Excellence
- Participated in capital & program fundraising from foundations, government, & individuals
- Managed annual program budget of \$600K and capital expense budget of \$19M
- Supervised team of 9 permanent and 7-10 seasonal staff

Western Pennsylvania Conservancy – Pittsburgh, PA

2008-2009

TreeVitalize Pittsburgh Program Director

- Developed regional urban tree planting program to improve community and ecological health modeled after successful Philadelphia TreeVitalize program
- Managed neighborhood tree plantings of over 3,300 trees including site assessment, tree procurement, tool management, and plantings with more than 1,500 volunteers
- Provided education & technical support to over 40 community groups in 30 neighborhoods
- Coordinated efforts of program partners including PA Dept Conservation & Natural Resources, Allegheny County, City of Pittsburgh, Tree Pittsburgh, & Western Pennsylvania Conservancy
- Participated in fundraising to raise \$3.8M from public and private funding sources

Nine Mile Run Watershed Association – Pittsburgh, PA

2002-2008

Executive Director, start-up phase

- Led organizational development from all-volunteer to full-time staff of 6
- Spearheaded outreach and stewardship programs including:
 - watershed education reaching over 6,000 citizens
 - implementation of citizen-based tree inventory of 3,000+ trees with 150 volunteers
 - installation of 600 rain barrels
 - successful fundraising to install 3,400 additional barrels
 - involvement of 250 citizens & 30 public officials in design of park entrance for stormwater capture
 - scientific monitoring of Nine Mile Run with academic partners
- Led fundraising of \$2M from public & private sources including start-up organizational funds
- Successfully advocated for additional federal funds to ensure completion of \$7.7M Nine Mile Run Aquatic Ecosystem Restoration

CONSULTING EXPERIENCE

- Client: **RTI International**, *Research support* (current)
 - Team member for 3-year Public Lands Service Coalition project for the National Park Foundation (NPF)
 - Developed survey, photovoice, and interview protocols
 - Conduct interviews with program participants
 - Collaborate on data interpretation and analysis
 - Support report and presentation preparation to NPF
- Client: **UrbanKind, Inc.**, *Educational assessment support* (2019)
 - Prepared survey for assessment of youth Social and Emotional Learning (SEL)
- Client: **BW3, LLC.**, *Trainer* (2019)
 - Supported workplace leadership training focused on race, culture, and women
- Client: **Fred Rogers Company**, *Environmental education advisor* (2016-2018)
 - Assisted with PBS proposal and script development for Ollie's Big Backyard, an animated and live action series for 3-5-year-olds (2017-2018)
 - Provided themes and episode review of ten 3-minute episodes of *Through the Woods*, an animated web-based series for 3-5-year-olds (2016)