

Dr. MICHAELA T. ZINT

March 2026

School for Environment and Sustainability (SEAS), 2032 Dana Building, Cell: 517-545-7496
440 Church St., University of Michigan, Ann Arbor, MI 48109, USA zintmich@umich.edu

ADMINISTRATIVE LEADERSHIP APPOINTMENTS

University of Michigan, Michigan, USA:

- 2019-2025 Associate Dean for Academic Affairs,
School for Environment & Sustainability (SEAS)
- 2016 Acting Associate Dean for Academic Affairs,
School of Natural Resources & Environment (now SEAS)
- 2010 Acting Associate Director, Program in the Environment,
College of Literature, Science and the Arts
and School of Natural Resources & Environment
- 2012-2014; Coordinator, Behavior, Education & Communication Specialization
1997-1999 School of Natural Resources & Environment

INSTITUTIONAL GOVERNANCE & STEWARDSHIP

Governing Board (Unirat) Member, University of Natural Resources & Life Sciences
(BOKU), Vienna, Austria (2022-present)

ACADEMIC EMPLOYMENT HISTORY

University of Michigan, Michigan, USA:

- 2015-present Professor, School for Environment & Sustainability (SEAS)
- 2010-present Professor, Program in the Environment, College of Literature, Science and the
Arts
- 2005-present Professor, School of Education
- 2003-2015 Associate Professor, School of Natural Resources & Environment (now SEAS)
- 1996-2003 Assistant Professor, School of Natural Resources & Environment (now SEAS)

Michigan State University, Michigan, USA:

1992-1996 Project Manager, Michigan Sea Grant Extension

INTERNATIONAL VISITING APPOINTMENT

2019 Fellow, Institute for Ecological Economics,
Vienna University of Economics and Business, Austria

EDUCATION

Michigan State University, Michigan USA:

1996 Ph.D. College of Agriculture and Natural Resources: Fisheries and Wildlife

1990 M.B.A. Eli Broad College of Business: Marketing

1988 B.A. Eli Broad College of Business: Hotel, Restaurant and Institutional Management

ACADEMIC & EXECUTIVE LEADERSHIP DEVELOPMENT

2026-present Executive Coaching Training, University of Michigan

2026-present Reimagining Governance: Building Inclusive Pathways to Campus Sustainability,
The Association for the Advancement of Sustainability in Higher Education

2024-2025 Academic Leadership Program, Big Ten Academic Alliance

2022 Principles of Effective Leadership, Academic Impressions

2021 Principles & Techniques of Fundraising, Indiana University

2016-2017 Leadership Coaching Program, College of Literature, Science, and the Arts,
University of Michigan

2016 Leadership Training for Women in Higher Education,
Higher Education Resource Services (“HERS”)

AWARDS

2019 Arthur F. Thurnau Professorship, University of Michigan

- 2017 Outstanding Instructor, Program in the Environment, University of Michigan
- 2014 Outstanding Contributions to Research in Environmental Education Award, North American Association for Environmental Education
- 2014 Outstanding Faculty Teaching Award, School of Natural Resources & Environment, University of Michigan
- 1999 Career Development Fund for Women Faculty, University of Michigan
- 1995 Student Award, Society for Risk Analysis
- 1995 Skinner Memorial Award, American Fisheries Society
- 1987 Arthur J. Packard Merit Award, American Hotel & Motel Association

PUBLICATIONS

Peer-Reviewed Articles & Chapters

In Review

Michel, J., **Zint, M.** Muhich, T, & Sanders, L. Cultivating Climate Actors through Participatory Action Research in Higher Education: Student-Experienced Pathways Linking Learning and Institutional Climate Action. *International Journal of Sustainability in Higher Education*.

Schueller, S.K., **Zint, M.**, Russo, M, Bartlett, M., Shriberg, M, & Michel, J. Developing sustainability competencies through a graduate capstone innovation. *International Journal of Sustainability in Higher Education*.

Published

Michael, J.O., Collins, S.R., Siciliano, P., & **Zint, M.** (2024). Disciplines shaping the higher education for sustainable development competency scholarship: Results from a direct citation analysis. In Leal Filho, W., Dibbern, T., de Maya, S.R., Alarcón-del-Amo, MdC., Rives, L.M. (Eds.), *The contribution of universities towards education for sustainable development* (pp. 535-559). Springer.

Michel, J. O., Siciliano, P., **Zint, M.**, & Collins, S. R. (2024). Toward diversifying higher education sustainability competency scholarship: Findings and implications from a bibliometric analysis. *International Journal of Sustainability in Higher Education*, 25(2), (pp. 221–237). <https://doi.org/10.1108/IJSHE-08-2022-0250>

- Zint, M.**, Michel, J. O., Collins, S. R., Sloan, E. C., Elizondo Pineiro, M., Balotin, L., Correa, V., Dabrowski, M. I., Davoodi, B., Dierdorf, J., Fernández Méndez Jiménez, D., Miller, J., Nakisher, I., Roessler, C., Schurr, P., Siciliano, P., & Thompson, J. (2024). Environmental and sustainability education in the USA: Pathways to achieving the SDGs. In M. Rieckmann (Ed.), *World review: Environmental and sustainability education in the context of the Sustainable Development Goals* (pp. 269-296). CRC Press.
<https://doi.org/10.1201/9781003145202>
- Bohunovsky, L., Radinger-Peer, V., **Zint, M.**, & Penker, M. (2023). Change agents under tensions: A paradox-approach to strategies for transforming higher education toward sustainability. *International Journal of Sustainability in Higher Education*, 24(9), 372–392. <https://doi.org/10.1108/IJSHE-12-2022-0393>
- Buckley, J., Ostrow Michel, J., **Zint, M.**, Smedick, B., & Rice, E. (2023). Framework for graduate leadership education for sustainability guided by the SDGs. *New Directions for Student Leadership*, 2023(179), 43–57. <https://doi.org/10.1002/yl.20568>.
- Oberauer, K., Schickl, M., **Zint, M.**, Liebhaber, N., Deisenrieder, V., Kubisch, S., Parth, S., Frick, M., Stoetter, H., & Keller, L. (2023). The impact of teenagers' emotions on their complexity thinking competence related to climate change and its consequences on their future: Looking at complex interactions and implications in climate change education. *Sustainability Science*, 18(2), 907–931. <https://doi.org/10.1007/s11625-022-01222-y>
- Zint, M.**, Michel, J. O., Valentine, T., & Collins, S. (2023). Collaborating with students to advance climate change education at the University of Michigan (USA): Insights and recommendations. In W. Leal Filho, M. Sima, A. Lange Salvia, M. Kovaleva, & E. Manolas (Eds.), *University initiatives on climate change education and research*. Springer. https://doi.org/10.1007/978-3-031-25960-9_91-1
- Zint, M.**, Porter, P., & Bellino, M. (2023). Developing leadership on climate change through Massive Open Online Courses (MOOCs). In J. Ostrow Michel & M. Zint (Eds.), *Special issue: Innovative pedagogies for cultivating leadership amidst the climate change crisis*. *Sustainability*, 12(6), 1234–1245. <https://doi.org/10.3390/su15129781>
- Bressler, A., Quintana, R. M., & **Zint, M.** (2022). Co-design of a massive open online course: An exploration of the motives and motive fulfillment of a faculty member and student co-instructors. *Frontiers in Education*, 7, 1–16. <https://doi.org/10.3389/educ.2022.1010018>
- Michael, J. O., Brundiers, K., Barth, M., Fischer, D., Mochizuki, Y., Redman, A., & **Zint, M.** (2022). Sustainability competencies in higher education. In R. Brears (Ed.), *The Palgrave encyclopedia of urban and regional futures* (pp. 1710–1714). Palgrave Macmillan.
https://doi.org/10.1007/978-3-030-51812-7_342-1

- Zint, M.**, Porter, P., & Michel, J. O. (2022). Education for sustainability through Massive Open Online Courses (MOOCs). In A. Bush & J. Birke (Eds.), *Nachhaltigkeit und Social Media: Bildung fuer eine nachhaltige Entwicklung in der digitalen Welt* (pp. 241–257). Springer-Verlag. DOI not available.
- Brundiers, K., Barth, M., Cebrian, G., Cohen, M., Diaz, L., Doucette-Remington, S., Dripps, W., Habron, G., Harre, N., Jarchow, M., Losch, K., Michel, J., Mochizuki, Y., Rieckmann, M., Parnell, R., Walker, P., & **Zint, M.** (2021). Key competencies in sustainability in higher education: Toward an agreed-upon reference framework. *Sustainability Science*, *16*(1), 13–29. <https://doi.org/10.1007/s11625-020-00838-2>
- Carman, J. P., **Zint, M.**, Burkett, E., & Ibanez, I. (2021). The role of interest in climate change instruction. *Science Education*, *105*(2), 309–352. <https://doi.org/10.1002/sc.21610>
- Carman, J. P., & **Zint, M.** (2020). Defining and classifying personal and household climate change adaptation behaviors. *Global Environmental Change*, *61*, Article 102062. <https://doi.org/10.1016/j.gloenvcha.2020.102062>
- Morse, B., Carman, J. P., & **Zint, M.** (2019). Fostering environmental behaviors through observational learning. *Journal of Sustainable Tourism*, *27*(10), 1530–1552. <https://doi.org/10.1080/09669582.2019.1647219>
- Carman, J. P., **Zint, M.**, & Ibanez, I. (2017). Assessing student interest and desire to learn more about climate change effects on forests in middle school: An intervention-based path model. *Electronic Journal of Science Education*, *21*(4), 14–35 DOI not available.
- Leal, W., & **Zint, M.** (2016). Social sciences and campus sustainable development: The way forward. In W. Leal & M. Zint (Eds.), *The contribution of social sciences to sustainable development at universities* (pp. 307–313). Springer. https://doi.org/10.1007/978-3-319-26866-8_19
- Zint, M.** (2016). Social sciences and campus sustainable development. In *Social sciences and campus sustainable development* (Special Issue edited by Zint, M.). *International Journal of Sustainability in Higher Education*, *17*(4), 446–450. <https://doi.org/10.1108/IJSHE-12-2015-0192>
- Zint, M.**, Kraemer, A., & Kolenic, G. E. (2014). Evaluating meaningful watershed educational experiences: An exploration into the effects on participating students’ environmental stewardship characteristics and the relationships between these predictors of environmentally responsible behavior. *Studies in Educational Evaluation*, *41*, 4–17. <https://doi.org/10.1016/j.stueduc.2013.07.002>

- Zint, M., & Wolske, K.** (2014). From information provision to participatory deliberation: Engaging residents in the transition toward sustainable cities. In D. Mazmanian & H. Blanco (Eds.), *The Elgar companion to sustainable cities: Strategies, methods and outlook* (pp. 188–209). Edward Elgar Publishing.
<https://doi.org/10.4337/9780857939999.00015>
- Levy, B., & **Zint, M.** (2013). Toward fostering environmental political participation: Framing an agenda for environmental education research. *Environmental Education Research, 19*(5), 553–576. <https://doi.org/10.1080/13504622.2012.717218>
- Kelly, M., Little, S., Phelps, K., Roble, C., & **Zint, M.** (2012). Watershed outreach professionals' behavior change practices, challenges, and needs. *Applied Environmental Education & Communication, 11*(1), 35–52.
<https://doi.org/10.1080/1533015X.2012.728066>
- Zint, M.** (2012). Advancing environmental education program evaluation: Insights from a review of behavioral outcome evaluations. In R. Stevenson, M. Brody, J. Dillon, & A. Wals (Eds.), *International handbook of research on environmental education* (pp. 298–309). American Educational Research Association & Routledge.
<https://doi.org/10.4324/9780203813331-38>
- Forbes, C. T., & **Zint, M.** (2011). Elementary teachers' beliefs about, perceived competencies for, and reported use of scientific inquiry to promote student learning about and for the environment. *Journal of Environmental Education, 42*(1), 30–42.
<https://doi.org/10.1080/00958961003674673>
- Zint, M.** (2011). Evaluating education for sustainable development programs. In W. Leal Filho (Ed.), *World trends on education for sustainable development* (pp. 329–347). Peter Lang. DOI not available.
- Zint, M., Covitt, B., & Dowd, P.** (2011). Insights from an evaluability assessment of the U.S. Forest Service More Kids in the Woods Initiative. *Journal of Environmental Education, 42*(4), 255–271. <https://doi.org/10.1080/00958964.2010.538091>
- Zint, M., Dowd, P., & Covitt, B.** (2011). Enhancing environmental educators' evaluation competencies: Insights from an examination of the effectiveness of the My Environmental Education Evaluation Resource Assistant (MEERA) website. *Environmental Education Research, 17*(4), 471–497.
<https://doi.org/10.1080/13504622.2011.565117>

- Zint, M.** (2010). An introduction to My Environmental Education Evaluation Resource Assistant (MEERA), a web-based resource for self-directed learning about environmental education program evaluation. *Evaluation and Program Planning*, 33(2), 178–179. <https://doi.org/10.1016/j.evalprogplan.2009.07.008>
- Duvall, J., & **Zint, M.** (2007). A review of research on the effectiveness of environmental education in promoting intergenerational learning. *Journal of Environmental Education*, 38(4), 14–24. <https://doi.org/10.3200/JOEE.38.4.14-24>
- Pollak, T., & **Zint, M.** (2006). Are newspapers steering potential hybrid drivers off course? An analysis of U.S. newspaper coverage of hybrid electric vehicles. *Journal of Applied Environmental Education and Communication*, 5(1), 51–61. <https://doi.org/10.1080/15330150500452380>
- Zint, M.**, & Higgs, A. (2006). Education. *Catalog of Conservation Social Science Tools*, Society for Conservation Biology. Retrieved from <http://www.conservationbiology.org/workinggroups/sswg/catalog/education.com>
- Covitt, B., Gomez-Schmidt, C., & **Zint, M.** (2005). An evaluation of the risk education module *Exploring Environmental Issues: Focus on Risk*. *Journal of Environmental Education*, 36(2), 3–13. <https://doi.org/10.3200/JOEE.36.2.3-13>
- Brook, A., **Zint, M.**, & DeYoung, R. (2003). Private landowners' responses to an endangered species act listing: Implications for conservation. *Conservation Biology*, 17(6), 1638–1649. <https://doi.org/10.1046/j.1523-1739.2003.01765.x>
- Brittle, C., & **Zint, M.** (2003). Do newspapers lead with lead? A content analysis of newspaper coverage of lead health risks to children. *Journal of Environmental Health*, 65(10), 17–22. DOI not available.
- Zint, M.** (2002). Comparing three attitude-behavior theories for predicting science teachers' intentions. *Journal of Research in Science Teaching*, 39(9), 819–844. <https://doi.org/10.1002/tea.10047>
- Zint, M.**, & Hanson, M. (2002). Exploring environmental careers. *Environmental Science & Technology*, 36(1), 22A–26A. <https://doi.org/10.1021/es0221762>
- Zint, M.**, & Hanson, M. (2002). Perspectives on the environmental career development of youth: Insights from a survey of U.S. environmental educators. *Applied Environmental Education and Communication*, 1(2), 79–88. <https://doi.org/10.1080/15330150290101956>

- Zint, M.**, Kraemer, A., Northway, H., & Lim, M. (2002). Evaluation of the Chesapeake Bay Foundation's conservation education programs. *Conservation Biology*, 16(3), 641–650. <https://doi.org/10.1046/j.1523-1739.2002.00546.x>
- Zint, M.** (2001). Advancing environmental risk education. *Risk Analysis*, 21(3), 417–426. <https://doi.org/10.1111/0272-4332.213122>
- Zint, M.**, & Frederick, R. (2001). Marketing & advertising a 'deep green' company: The case of Patagonia, Inc. *Greener Management International: The Journal of Corporate Citizenship*, 1(1), 93–113. <https://doi.org/10.9774/GLEAF.2042.2001.su.00010>
- Zint, M.**, & Peyton, R. B. (2001). Improving risk education in grades 6–12: A needs assessment of Michigan, Ohio, and Wisconsin science teachers. *The Journal of Environmental Education*, 32(2), 46–54. <https://doi.org/10.1080/00958960109599137>
- Zint, M.**, & Crook, A. (1998). A needs assessment of fisheries education materials for youth. *Fisheries*, 23(10), 24–34. [https://doi.org/10.1577/1548-8446\(1998\)023<0024:ANAOFE>2.0.CO;2](https://doi.org/10.1577/1548-8446(1998)023<0024:ANAOFE>2.0.CO;2)
- Zint, M.**, & Dann, S. (1995). Educating youth about fish, fishing, and fisheries management issues. *Fisheries*, 20(2), 28–30. <https://doi.org/10.1577/1548-8446-20-2>
- Zint, M.**, Taylor, W. W., Carl, L., Edsall, C. C., Heinrich, J., Sippel, A., Lavis, D., & Schaner, T. (1995). Do toxic substances pose a threat to rehabilitation of lake trout in the Great Lakes? A review of the literature. *Journal of Great Lakes Research*, 21(1), 530–546. [https://doi.org/10.1016/S0380-1330\(95\)71124-8](https://doi.org/10.1016/S0380-1330(95)71124-8)

Edited Books

- Keller, L., Michelsen, G., Dür, M., Bachri, S., & **Zint, M.** (Eds.). (2023). *Digitalization, new media, and education for sustainable development*. IGI Global. <https://doi.org/10.4018/978-1-7998-5033-5>
- Leal, W., & **Zint, M.** (Eds.). (2016). *The contribution of social sciences to sustainable development at universities*. Springer World Sustainability Series. <https://doi.org/10.1007/978-3-319-26866-8>

Reports

- Ackerly, D.; Bales, R.; Blumenthal, G.; Bunce, L.; Bundy, K.; Criss, A. ... **Zint, M.**; et al. (2026). *Climate Action in Higher Education: Roadmap*. UC Santa Cruz. <http://dx.doi.org/10.48330/E2G59S> Retrieved from <https://escholarship.org/uc/item/82f057jt>

- Zint, M.,** Michel, J. O., Valentine, T., & Elizondo-Pinero, M. (2024). *ACE 2.0: Leadership for turning climate anxiety into action*. A report prepared for Valeria Bertacco, Vice Provost of Engaged Learning. School for Environment and Sustainability, University of Michigan.
- Zint, M.,** Michel, J. O., Collins, S., Valentine, T., & Elizondo-Pinero, M. (2023). *Advancing climate education at the University of Michigan*. A report prepared for Valeria Bertacco, Vice Provost of Engaged Learning. School for Environment and Sustainability, University of Michigan.
- Zint, M.,** Lantz, P., Fishman, B., & Michel, J. O. (2021). *Toward mastery: Re-envisioning master's student learning through a competency-based and multi-mentoring approach*. Rackham Graduate School, University of Michigan.
- Zint, M.,** Carman, J., & Kraemer, A. (2017). *National Oceanic and Atmospheric Administration Meaningful Watershed Educational Experiences: Implementation, outcomes & best practices*. National Oceanic and Atmospheric Administration.
- Zint, M.,** & Kraemer, A. (2014). *NOAA B-WET National Evaluation System: Results from first pilot test (2013-2014)*. National Oceanic and Atmospheric Administration.
- Kraemer, A., **Zint, M.,** & Kirwin, J. (2007). *An evaluation of National Oceanic and Atmospheric Administration Chesapeake Bay Watershed Education and Training Program Meaningful Watershed Educational Experiences*. National Oceanic and Atmospheric Administration.
- Kraemer, A., Covitt, B., & **Zint, M.** (2002). *Evaluation of Chesapeake Bay Foundation individual and combined middle school education programs*. Chesapeake Bay Foundation.
- Zint, M.,** & Fortner, R. (2001). *Great Lakes education assessment and summary of needs*. Great Lakes Fishery Trust.
- Kraemer, A., & **Zint, M.** (1999). *Chesapeake Bay Foundation education program evaluation*. Chesapeake Bay Foundation.
- Crook, A., & **Zint, M.** (1998). *A needs assessment of fisheries education materials for youth: Report to our sponsors*. American Fisheries Society, Future Fisherman Foundation, and National Fish and Wildlife Foundation.
- Peyton, R. B., & **Zint, M.** (1994). *Report on the proceedings of the Michigan bowhunting conference: Hunters resolving issues*. Michigan Bowhunting Conference Steering Committee.

Zint, M., & Peyton, R. B. (1993). *An evaluation of science education as a means of improving Great Lakes citizens' skills for decision making under risk.* Michigan Sea Grant College Program.

Zint, M. (1989). *Hosts, EI's partners in international hospitality education.* Educational Institute of the American Hotel and Motel Association.

Professional Technical Publications

Zint, M., & Giles, A. (2000). *Environmental education undergraduate and graduate programs and faculty in the United States* (2nd ed.). North American Association for Environmental Education.

Zint, M. (1998). *Directory of faculty who teach "environmental education" courses at colleges and universities in the United States* (1st ed.). North American Association for Environmental Education.

Zint, M. (1987). *Certified food and beverage trainee's manual.* American Hotel and Motel Association.

Monographs

Crook, A., & **Zint, M. (1998).** *Guide to fisheries education resources for grades K-12.* American Fisheries Society.

Fisher, A., Emani, S., & **Zint, M. (1996).** *Risk communication for industry practitioners: An annotated bibliography.* Society for Risk Analysis.

National Environmental Education Evaluation Systems

Zint, M., Kraemer, A., & Heimlich, J. (2012). *National Oceanic and Atmospheric Administration's Bay Watershed Education and Training Program evaluation system 5-year plan.* National Oceanic and Atmospheric Administration.

Zint, M. (2010). *Evaluating the Environmental Education & Training Partnership (EETAP 2 & 3).* U.S. Environmental Protection Agency's Office of Environmental Education.

Zint, M. (2004–2010). *Summary of annual Environmental Education and Training Partnership achievements.* U.S. Environmental Protection Agency's Office of Environmental Education.

Office of Management and Budget (OMB) Paperwork Reduction Act Clearance Supporting Statements:

OMB Clearance is required when federal agencies seek to collect data from 10 or more respondents. Required documents describe what information is needed, why it is needed, how it will be collected, how much the collected information will cost respondents and the government. OMB Clearance is challenging to obtain and the process typically requires 6-9 months.

Kraemer, A. & **Zint, M.** (2015). Renewal of NOAA Bay Watershed Education and Training (B-WET) Program National Evaluation System. OMB Control Number: 0648-0658. [Approved in 2 months.]

Kraemer, A. & **Zint, M.** (2013). NOAA Bay Watershed Education and Training (B-WET) Program National Evaluation System. OMB Control Number: 0648-0658. [Approved in 4 months.]

Kraemer, A. & **Zint, M.** (2005). Evaluation of NOAA Bay Watershed Education and Training (B-WET). OMB Control Number: 0648-0530. [Approved in 4 months.]

Book Reviews

Popovich, E., & Zint, M. (2012). [Review of the book *Learning Science in Informal Environments: People, Places, and Pursuits*, by P. Bell, B. Lewenstein, A. W. Shouse, & M. A. Feder (Eds.)]. *Journal of Environmental Education*, 43(1), 66–68. Washington, DC: Board on Science Education, Center for Education, Division of Behavioral and Social Sciences and Education, The National Academies Press.

Zint, M. (2000). [Review of the book *Green ink: An introduction to environmental journalism*, by M. Frome]. *Journal of Environmental Education*, 32(1), 59–60.

Zint, M. (1999). [Review of the book *Environmental education for the 21st Century: International and interdisciplinary perspectives*, by P. J. Thompson]. *Journal of Environmental Education*, 31(1), 40–41.

Zint, M. (1998). [Review of the books *Earth Summit ethics: Toward a reconstructive postmodern philosophy of environmental education*, by Baird & Rocha, and *Ecology in education*, by Hale]. *Society & Natural Resources*, 11(5), 543–545.

Professional Magazine Article

Game, C., Liberatore, A., Popovich, E., & Zint, M. (2010). Growing behavior change. *Green Teacher*, 89(Summer), 7–13.

TEACHING

Residential Courses:

Undergraduate:

- Environ 211 Social Sciences & Environmental Problems
- Environ 367 Global Enterprise and Sustainable Development
- Environ/Edcurins 382 Introduction to Environmental Education for Sustainability

Graduate:

- NRE 515/EIH 579 Environmental Risk Communication
- NRE/EDUC 581 Advanced Environmental Education
- NRE 501 & 677-012 Seminars on cutting-edge environmental, sustainability and climate education and communication topics
- NRE 677-158 Responsible Conduct of Research of Scholarship

Online & K-12 Instruction:

2018 [*Sustainable Food*](#)

This “Teach-Out” was inspired by the Massive Open Online Course (MOOC) described below. Because of how impact the food system has on the climate, the goal was to explore this particular topic in depth. About 2,000 learners participated during the two month long sessions, with a satisfaction rate of 4.8/5.

2016-2017 [*Act on Climate \(AoC\): Steps to Individual, Community, and Political Action*](#)

AoC ranks in the top 10% of U-M’ MOOCs based on over 16,000 enrolled internationally learners, a 4.8/5 satisfaction rate, and positive comments including “awesome course”, “top content on climate change”, “very well designed”, “relevant to understand the complexity and enormity of the issues in our systems”, and “gives better idea of the role you have in climate action”.

2013-2016 [*Climate Change & Michigan Forests*](#)

Middle and high school units, designed consistent with Next Generation Science Standards, with the former adopted by Ann Arbor Public School across 7th grade.

WEBSITES

Social Sciences for Sustainability: Leveraging Research to Advance Campus Environmental Sustainability. (2014-2017).

- <http://www.campus-sustainability.org> provides access to social science research synthesized by Environ 211 undergraduate students, to answer questions about how campus' environmental sustainability performance can be improved.

My Environmental Education Evaluation Resource Assistant (MEERA). (2008-present).

- <http://www.meera.snre.umich.edu> - is a self-directed learning guide designed to support environmental educators' program evaluation efforts through an eight-step process and detailed descriptions of environmental education program evaluations. As part of its annual call for environmental education proposals, the US Environmental Protection Agency asks applicants to use MEERA to develop their evaluation plans and complete the required program evaluations. The National Oceanic and Atmospheric Administration and the US Forest Service also recommend the site to environmental educators. Since its inception in 2008, the site has served over 700,000 environmental educators and other professionals from over 220 countries and territories as listed by google analytics.

Great Lakes Fisheries Education Teacher's Corner. (2000-2010).

- Website provided in-depth descriptions of instructional materials designed to teach K-12 students about Great Lakes fisheries. Users were able to search resources based on the extent to which fisheries content and national environmental education guidelines are addressed, as well as cost and suitable grade levels. This site had an average of 1,500 unique visitors per month, with a 60% return rate.

INVITED PRESENTATIONS (National and International)

Zint, M. (2026). *Reprogramming Computer Science Education for a Sustainable Future.*

Presented at Technische Universitaet Wien (i.e., Vienna University of Technology), Vienna, Austria.

Zint, M. (2024). *Turning climate anxiety into action.* Presented at University of Natural Resources and Life Sciences, Vienna, Austria.

Zint, M., Michel, J.O. & Valentine, T. (2024). *The new generation of college students & climate anxiety.* Keynote for Depression on College Campuses conference, Ann Arbor, MI, United States.

Michel, J.O., **Zint, M.**, Valentine, T., & Elizondo-Piñeiro, M. (2023). *Collaboration toward climate action on Michigan campuses.* Panel member at Grand Valley State University Climate Education Solutions Summit 2023: Connecting Minds for a Sustainable Future, Grand Rapids, MI, United States.

Zint, M. (2022). *Technology for all people, the planet, and prosperity*. Presented at Technische Universitaet Wien (i.e., Vienna University of Technology), Vienna, Austria.

Zint, M. (2019). *Transforming higher education for a sustainable future: A collective impact approach*. Presented at the UNESCO Chair Conference, University of Wuppertal, Germany.

Zint, M. (2019). *Introduction to the co-creation of the “Act on Climate” MOOC & associated research*. Presented at University of Natural Resources and Life Sciences as well as University of Economics and Business, Vienna, Austria.

Zint, M. (2019). *Obtaining a PhD, post-doc or faculty position in the USA*. Presented at University of Natural Resources and Life Sciences as well as University of Economics and Business, Vienna, Austria.

Zint, M. (2015). *Ideas and tools for effective evaluation*. Webinar presented for North American Association of Environmental Education.

Zint, M., & Kraemer, A. (2014). *Preliminary grantee results from NOAA B-WET’s national evaluation system*. Paper presented at a National Oceanic and Atmospheric Administration B-WET meeting, Washington D.C.

Zint, M., & Kraemer, A. (2013). *Introducing NOAA B-WET’s national evaluation system*. Paper presented at a National Oceanic and Atmospheric Administration B-WET meeting, Baltimore, MD.

Zint, M. (2012). *What we know: Environmental education and Meaningful Watershed Environmental Education*. Paper presented at the STAC (Chesapeake Bay Program Scientific and Technical Committee) research based best practices in environmental education workshop, Annapolis, MD.

Zint, M. (2011). *Communicating climate change*. Paper presented at the Office of Transportation & Air Quality, U.S. Environmental Protection Agency, Ann Arbor, MI.

Zint, M. (2010). *Evaluating Communication/Education Programs A Science Communication Example*. Paper presented at Leuphana Universität Lüneburg, Germany.

Zint, M., Cawood, J.F., & Game, C.R. (2010). *Evaluating recycling education*. Paper presented at the Michigan Recycling Coalition conference, Detroit, MI.

Zint, M. (2009). *Environmental education evaluation: using evaluation to shape programs and policy*. Paper presented at the North American Association for Environmental Education, Portland, OR.

Zint, M. (2009). *Can self-directed learning resources increase individuals’ evaluation competency? Insights from case studies of environmental educators’ experiences with the web-based “My Environmental Education Evaluation Resource Assistant” or “MEERA.”*. Paper presented at the Environmental Evaluator’s Networking Forum, Washington, DC.

- Zint, M.** (2009). *Symposium: Evaluation in environmental education*. Paper presented at the World Environmental Education Congress, Montreal, Canada.
- Zint, M.** (2008). "MEERA" - *A web-based clearinghouse for advancing environmental education evaluation*. Paper presented at the Environmental Evaluator's Networking Forum, Washington, DC.
- Zint, M.** (2007). "MEERA" - *Your Web-Based Environmental Education Evaluation Research Assistant*. Paper presented at the USDA Forest Service "Kids Outside" conference, Madison, WI.
- Zint, M.** (2004). *Questions to ask when evaluating or commissioning evaluations of conservation education programs*. Paper presented at International Association of Fish and Wildlife Agencies Education Summit, National Conservation Training Center, Shepherdstown, WV.
- Zint, M., & Kraemer, A.** (2004). *Evaluation of the Chesapeake Bay Foundation's Education Programs*. Paper presented at Best Education Practices for Water Outreach Professionals conference, University of Wisconsin, Madison, WI.
- Zint, M.** (2003). *Synopsis of research on environment-based education and student achievement*. Paper presented at Empowering Pre-Service Teachers for Environment-Based Education and Teaching the Michigan Benchmarks symposium, East Lansing, MI.
- Zint, M., & Fortner, R.** (2003). *Great Lakes fisheries and ecosystem education: Needs and opportunities*. Paper presented at Great Lakes Fisheries & Ecosystem Education Networking conference, East Lansing, MI.
- Zint, M.** (2000). *Environmental education instruction at higher education institutions*. Paper presented at the U.S. Higher Education Network for Sustainability and the Environment conference, South Padre Island, TX.
- Zint, M.** (1999). *Advancing risk education*. Paper presented as part of a University of Michigan Decision Consortium meeting.
- Zint, M.** (1999). *Innovations in undergraduate environmental management education*. Paper presented at the Business Environment Learning Leadership (BELL) conference, held at the University of Michigan.
- Zint, M.** (1999). *Teaching risk concepts: elementary school to undergraduate programs*. Paper presented at Society for Risk Analysis conference, Atlanta, GA.
- Zint, M., & Crook, A.** (1998). *Results from an AFS review of K-12 fisheries education materials*. Paper presented at Aquatic Resources Education Association conference, Hartford, CT.

Zint, M. (1997). *Defining risk education*. Paper presented as part of a University of Michigan Decision Consortium meeting.

Zint, M. (1993). *Risk: Implications for Great Lakes fisheries management and policy*. Paper presented at Habitat Advisory Board meeting, Great Lakes Fishery Commission, Burlington, Ontario.

Zint, M. (1993). *Aquatic nuisance species: What can you do to create awareness and prevent their spread?* Paper presented at In-service teacher training, Kellogg Biological Station, Pellston, MI.

Zint, M. (1992). *Zebra mussels: A threat to the Great Lakes*. Paper presented at Higgins Lake Environmental Education School, Higgins Lake, MI.

Zint, M. (1992). *Zebra mussels: What can you do to create awareness and prevent their spread?* Paper presented at In-service teacher training, Kellogg Biological Station, Pellston, MI.

INVITED PRESENTATIONS (University of Michigan Campus)

Zint, M. (2025, November). Climate emotions and climate action. Paper presented during Lunch UP+T organized by the Taubman College of Architecture and Urban Planning, MI.

Zint, M. (2025, May). *Teaching climate with emotions in mind*. Paper presented during Embed Climate Change in Courses (EC3) professional development organized by the Center for Research on Learning and Teaching, MI.

Teasley, S., Stefanopoulou, A. & **Zint, M.** (2025, February). *Proposal Development*. Panel member for professional development/mentoring program for junior faculty organized by College of Engineering, University of Michigan, MI.

Zint, M. (2025, January). *Turning Climate Anxiety Into Action*. Presentation for Faculty Seminar Series, School for Environment and Sustainability Student, MI.

Zint, M. (2024, November). *Tools to Address Climate Anxiety*. Paper presented during the Provost Seminar: Supporting Mental Health & Well-being, organized by the Center for Research on Learning and Teaching, MI.

Zint, M. (2024, May). *Teaching climate with emotions in mind*. Paper presented during Embed Climate Change in Courses (EC3) professional development organized by the Center for Research on Learning and Teaching, MI.

Zint, M. (2024, January). *Advancing climate education*. Presented for Academy of Medical Educators, U-M Medical School, Ann Arbor, MI, United States.

Dale, A., Haverkamp, J., Keeler, E., Nelidov, T., & **Zint, M.** (2024, January). *What is it and how does it intersect with education in a global context* Panel Member, Council on Global Engagement, MI.

Zint, M. Lantz, P., Fishman, B., & Michel, J.O. (2021). *Re-envisioning Master's student learning through a competency-based and multi mentoring approach*. Paper presented at the Rackham MCubed Symposium, MI.

Zint, M. (2018). *Using technology to support peer learning*. Paper presented at the Center for Research on Learning and Teaching organized Campus-Wide New Faculty Orientation, MI.

Zint, M. (2017). *Future directions for sustainability and social science research*. Panel Member, Sustainability and Social Science Research Symposium, MI

Zint, M. (2017). *Sustainability AI salon*. Panel Member, School of Natural Resources & Environment, MI.

Zint, M. (2014). *Using study questions and Piazza to help students prepare for exams*. Paper presented at a Center for Research on Learning and Teaching workshop entitled "Increasing engagement in large courses."

Zint, M. (2014). *Engaging undergraduates in large, required courses*. Paper presented at a Hatcher Graduate Library panel on engaging students.

Zint, M. (2005). *Risk communication & risk education. Calculation to communication: Promoting informed decision-making about health risks*. Paper presented at the Center for Risk Science and Communication Inaugural Symposium.

EVENTS ORGANIZED

Zint, M. & Michel, J.O. (2024). *Leadership for Turning Climate Anxiety into Action (ACE 2.0)*. Ann Arbor, University of Michigan. Over 100 students, faculty/administrators, and staff from 17 Ann Arbor and Dearborn Schools and Colleges and 30 other U-M units participated both days of the event.

Zint, M. & Michel, J.O. (2023). [*Advancing Climate Education at the University of Michigan \(ACE 1.0\)*](#). Ann Arbor, University of Michigan. Over 65 students, faculty/administrators, and staff from 16 Ann Arbor Schools and Colleges and 3 other U-M units participated both days of the event.

CONFERENCE PAPERS & PRESENTATIONS

Zint, M., Gallay E., Michel, J. & Muhich, T. (2025). *Enhancing sustainability education in higher education: Participatory approaches in practice at the University of Michigan*. North American Association for Environmental Education Conference, Virtual Conference, MI.

Muhich, T. & **Zint, M.** (2024) *Turning climate knowledge into action with emotionally informed climate education*. North American Association for Environmental Education Conference, Pittsburgh, PA.

Michel, J.O. & **Zint, M.** (2023). *Advancing Climate Education at University of Michigan*. Climate Change Education Solutions Summit. Grand Valley State University, Virtual Conference, MI.

Collins, S., Michel, J.O., & **Zint, M.** (2023). *Cultivating interdisciplinary climate education in higher education*. North American Association for Environmental Education, Virtual Conference.

Garramone, I., Torkelson-Regan K. & **Zint, M.** (2018). *Integrating environmental data analysis into your classroom: Climate change and cherries*. Michigan Science Teachers Association Conference, Lansing, MI.

Garramone, I., Hawkins, V. & **Zint, M.** (2018). *Integrate scientific modeling, climate change, and forest ecology into your Middle School Classroom: Climate Change and Michigan Forests*. Michigan Science Teachers Association Conference, Lansing, MI.

Zint, M. (2017). *Interdisciplinary teaching and learning about the social sciences and sustainability*. Sustainability and Social Science Research Symposium, Ann Arbor, MI.

Morse, B. & **Zint, M.** (2017). *Observational learning in ecotourism: An investigation into ecotourists' environmentally responsible behavioral intentions in South Korea*. International Conference on sustainable tourism, Zurich, Switzerland.

Rice, B., **Zint, M.**, Carman, J. & Green, C. (2016). *Results of a NOAA B-WET National Evaluation System Analysis*. North American Association for Environmental Education, Madison, WI.

Lawson, D.F., Stevenson, K.T., **Zint, M.** & Peterson, M.N. (2016). *Intergenerational transfer: Leveraging the power of children to promote sustainability*. North American Association for Environmental Education Conference, Madison, WI.

Zint, M. (2015). *Improving "My Environmental Education Evaluation Resource Assistant."* North American Association for Environmental Education, San Diego, CA.

Zint, M. (2015). *Evaluation resources available through NOAA's Bay Watershed Education and Training program*. North American Association for Environmental Education, San Diego, CA.

Zint, M. & Carman, J. (2014). *Influences on interest in climate change and forests*. North American Association for Environmental Education Research Symposium, Ottawa, ONT.

Zint, M., Burkett, E. & Carman, J. (2014). *Climate change impacts on forests: Learning how scientists make predictions*. North American Association for Environmental Education, Ottawa, ONT.

Zint, M. & Kraemer, A. (2014). *Insights from pilot testing NOAA B-WET's grant program evaluation system*. North American Association for Environmental Education, Ottawa, ONT.

Zint, M. & MacDonald, L. (2014). *Motivating students through their desire to make a difference*. North American Association for Environmental Education, Ottawa, ONT.

Zint, M. & MacDonald, L. (2014). *Addressing campus sustainability challenges with the social sciences: Linking applied learning to student performance*. The Association for the Advancement of Sustainability in Higher Education, Portland, OR.

Zint, M., & Wolske, K. (2013). *Engaging residents in transitions toward sustainable cities*. North American Association for Environmental Education, Baltimore, MD.

Zint, M., & Kraemer, A. (2013). *Lessons & resources from NOAA's new watershed education evaluation system*. North American Association for Environmental Education, Baltimore, MD.

Zint, M., & Matson, L. (2013). *Learning how to apply social science research by solving campus sustainability challenges*. The Association for the Advancement of Sustainability in Higher Education, Nashville, TN.

Kelly, M., Little, S., Phelps, K., Roble, C., & **Zint, M.** (2012). *Watershed outreach professionals' behavior change practices, challenges, and needs*. North American Association for Environmental Education, Oakland, CA.

Dautremont-Smith, J., & **Zint, M.** (2012). *Strengths and limitations of school sustainability rating systems*. North American Association for Environmental Education, Oakland, CA.

Levy, B., & **Zint, M.** (2012). *Toward fostering environmental political participation: Framing an agenda for environmental education research*. American Educational Research Association, Vancouver, Canada.

Zint, M. (2011). *Advancing environmental education program evaluation: Insights from a review of behavioral outcome evaluations*. World Environmental Education Congress, Brisbane, Australia.

Zint, M. (2011). *Trends in evaluating environmental education programs*. World Environmental Education Congress, Brisbane, Australia.

Zint, M., Dowd, P., Burnett, A., & Samman, S. (2009). *Coming full circle: evaluating “My Environmental Education Evaluation Resource Assistant.”* North American Association for Environmental Education, Portland, OR.

Burnett, A., & **Zint, M.** (2009). *Developing an evaluation plan for your environmental education proposal.* North American Association for Environmental Education, Portland, OR.

Andrews, M., & **Zint, M.** (2009). *EUGENE: a new, innovative evaluation tool for environmental educators.* North American Association for Environmental Education, Portland, OR.

Zint, M. (2009) “*MEERA*” – *A web-based resource to support evaluations of Great Lakes education programs.* International Association for Great Lakes Research Toledo, OH.

Zint, M. (2009). “*MEERA*” - *A web-based resource for supporting environmental education evaluations.* World Environmental Education Congress, Montreal, Canada.

Medina, G., & **Zint, M.** (2008). *Using evaluation to identify best practices.* North American Association for Environmental Education, Wichita, KS.

Zint, M. (2008). *Evaluating the US Forest Service More Kids in the Woods Program.* North American Association for Environmental Education, Wichita, KS.

Zint, M. (2008). *Learning from case studies of programs using My Environmental Education Evaluation Resource Assistant (MEERA).* North American Association for Environmental Education, Wichita, KS.

Zint, M. (2007). “*MEERA*” - *Your Web-Based Environmental Education Evaluation Research Assistant.* North American Association for Environmental Education, Virginia Beach, VA.

Zint, M. (2007). “*MEERA*” - *A Web-Based Clearinghouse for Advancing Environmental Education Evaluation.* World Environmental Education Congress, Durban, South Africa.

Zint, M. (2007). “*MEERA*” – *A web-based clearinghouse for advancing environmental education evaluation.* American Education Research Association conference, Chicago, IL (Poster).

Zint, M. (2007). *Five insights about individual behavior and sustainability.* American Association for the Advancement of Science annual meeting, San Francisco, CA.

Zint, M. (2006). *MEERA: Your web-based EE evaluation resource assistant.* Michigan Alliance for Environmental and Outdoor Education, Wayland, MI.

Zint, M. (2006). “*MEERA*” – *A web-based clearinghouse for advancing environmental education evaluation.* North American Association for Environmental Education, Minneapolis, MN.

Zint, M. (2006). *Introducing a web-based clearinghouse for Great Lakes education*. Michigan Science Teachers Association conference, Lansing, MI.

Zint, M. (2005). *Introducing a web-based clearinghouse for Great Lakes education*. Midwest Fish & Wildlife conference, Grand Rapids, MI

Zint, M. (2005). *A practical guide to environmental education evaluation*. North American Association for Environmental Education, Albuquerque, NM.

Zint, M. (2005). *A web-based clearinghouse for advancing environmental education evaluation*. North American Association for Environmental Education, Albuquerque, NM.

Covitt, B., Kraemer, A., & **Zint, M.** (2002). *What works in environmental education? An evaluation of Chesapeake Bay Foundation curricula, field trips, and service-learning programs*. North American Association for Environmental Education, Boston, MA.

Wefel, A., & **Zint, M.** (2002). *Sustainability education: what is it and does it work? An evaluation of a sustainability education program in Ypsilanti, Michigan*. North American Association for Environmental Education, Boston, MA.

Zint, M. (2002). *Comparing three attitude behavior theories for predicting science teacher intentions*. National Association for Research in Science Teaching conference, New Orleans, LA.

Meichtry, Y., & **Zint, M.** (2001). *Relations between science education and environmental (science) education*. National Association for Research in Science Teaching conference, St. Louis, MO.

Sano, L.L., **Zint, M.**, Lim, M., & Dotzour, A. (2001). *Communicating children's health risks from pesticide exposure: An evaluation of communication efforts in Southeast Michigan*. Poster presented at the Society for Environmental Toxicology and Chemistry, Baltimore conference, Baltimore, MD.

Zint, M., & Meichtry, Y. (2001). *Connections between science education and environmental (science) education standards*. National Association for Research in Science Teaching conference, St. Louis, MO.

Giles, M., & **Zint, M.** (2000). *A new look at professional development*. Poster presented at the North American Association for Environmental Education conference, South Padre Island, TX.

Hanson, M., & **Zint, M.** (2000). *Preparing the environmental professionals of tomorrow*. Poster presented at the North American Association for Environmental Education conference, South Padre Island, TX .

- Zint, M.**, & Kraemer, A. (2000). *Evaluation of the Chesapeake Bay Foundation's Education Programs*. Aquatic Resources Education Association conference, Baltimore, MD.
- Gomez-Schmidt, C., & **Zint, M.** (1999). *An evaluation of PLT's "Focus on Risk"*. North American Association for Environmental Education conference, Cincinnati, OH.
- Gomez-Schmidt, C., & **Zint, M.** (1999). *Risk education in the classroom: A formal evaluation of Project Learning Tree's "Focus on Risk"*. Society for Risk Analysis conference, Atlanta, GA.
- Kraemer, A., Northway, H., & **Zint, M.** (1999). *Evaluation of CBF's student field trips*. North American Association for Environmental Education conference, Cincinnati, OH.
- Northway, H., Kraemer A., & **Zint, M.** (1999). *Evaluation of CBF's middle school curriculum*. North American Association for Environmental Education conference, Cincinnati, OH.
- Zint, M.**, Kraemer, A., & Northway, H. (1999). *Evaluation of CBF's professional development courses*. North American Association for Environmental Education conference, Cincinnati, OH.
- Covitt, B., & **Zint, M.** (1998). *What determines responsible environmental behavior?* North American Association for Environmental Education conference, Atlanta, GA.
- Crook, A., **Zint, M.**, & Babey, G. (1998). *Working with what we have to identify what we still need: An AFS review of fisheries education materials for youth*. American Fisheries Society conference, Hartford, CT.
- Zint, M.** (1998). *Review of "EE" course instruction at higher education institutions in the US*. North American Association for Environmental Education conference, Atlanta, GA.
- Zint, M.** (1998). *Risk education: Where do we go from here?* Society for Risk Analysis conference, Phoenix, AZ.
- Zint, M.**, & Crook, A. (1998). *Results from an AFS review of fisheries education materials for youth*. North American Association for Environmental Education conference, Atlanta, GA.
- Zint, M.** (1997). *Educating citizens about risk through formal science education: Results from a needs assessment*. Michigan Alliance for Environmental & Outdoor Education conference, Fenton, MI.
- Zint, M.** (1997). *Environmental education instruction at higher education institutions in the U.S.: Preliminary results from phase I*. Poster presented at the North American Association for Environmental Education conference, Vancouver, British Columbia.
- Zint, M.** (1995). *Evaluating curricula using AFS' fisheries education goals for youth*. American Fisheries Society conference, Tampa, FL.

Zint, M. (1995). *Working together to improve fisheries education for youth - Opportunities for cooperation between the National Marine Educators Association and the American Fisheries Society*. National Marine Educators Association conference, San Diego, CA.

Zint, M. (1995). *Symposium: Envisioning youth education about fish, fishing and fisheries management in the 21st century*. American Fisheries Society conference, Tampa, FL.

Zint, M., & Peyton, R. B. (1995). *A framework for environmental "risk" education*. North American Association for Environmental Education conference, Portland, ME.

Zint, M., & Peyton, R. B. (1995). *Improving risk decisions through formal science education: Final results of a teacher needs assessment*. Society for Risk Analysis conference, Honolulu, HI.

Zint, M., & Peyton, R. B. (1994). *Educating future citizens about risk through formal science education - A needs assessment*. Society for Risk Analysis conference, Baltimore, MD.

Swinehart, C., & **Zint, M.** (1993). *The life of the Lakes: The Great Lakes fishery*. Michigan Science Teachers Association conference, Detroit, MI.

GRANTS

- | | |
|--------------|--|
| 2024 | Principal Investigator
<i>Advancing Climate Education: Leadership for Turning Climate Anxiety into Action (ACE 2.0)</i>
University of Michigan Office of the Provost, four U-M Schools & Colleges, and four U-M Mental Health & Sustainability units, \$47,000 |
| 2024 | Collaborator
<i>Increasing Access to Experiential Learning</i>
University of Michigan Center for Teaching and Learning, \$17,500 |
| 2023 | Principal Investigator
<i>Advancing Climate Education (ACE 1.0)</i>
University of Michigan Office of the Provost, \$21,075 |
| 2021-present | Collaborator & Subcontractor
<i>Building students' environmental knowledge and engagement with local government through civic science</i>
Institute of Education Sciences: National Center for Education Research: Civics Education and Social Studies, \$391,127 |

- 2021-2022 **Collaborator & Subcontractor**
Urban STEM Stewards: Expanding career interests through citizen-science with community partners
 National Science Foundation: Research on Learning in Formal and Informal Settings, \$47,356
- 2020-2023 **Principal Investigator**
Innovative pedagogies for cultivating leadership amidst the climate change crisis. University of Michigan, School for Environment & Sustainability, \$55,000
- 2019-2021 **Principal Investigator**
Toward Mastery: Re-envisioning Master’s student learning through a competency-based approach and multi-model mentoring.
 University of Michigan, Rackham Graduate School, \$60,000
- 2017-2019 **Principal Investigator**
SEAS of change - Toward assessing student-learning outcomes of environmental sustainability education.
 University of Michigan, Center for Research on Learning and Teaching, \$10,000
- 2016-2021 **Co-Investigator**
Michigan Sustainability Cases: Transforming case-based teaching and environmental training.
 University of Michigan, Third Century Initiative, \$1.6 million
- 2014-2016 **Principal Investigator**
Planting Roots, Branching Out: A proposal to continue exploring the benefits of an education program design to foster middle school students’ understanding of Michigan’s trees and forests – and – the impacts of climate change on these resources.
 US Forest Service McIntire-Stennis Research Program, \$55,000
- 2013-2014 **Principal Investigator**
“I want to make a difference” – Motivating students to learn by providing them with an opportunity to enhance campus sustainability efforts.
 University of Michigan Transforming Learning for Third Century – Quick Wins, \$25,000
- 2012-2014 **Principal Investigator**
Enhancing public interests in forests: Exploring the benefits of an education program to foster middle school students’ understanding of local trees and forests –and- of the impacts of climate change on these resources.
 US Forest Service McIntire-Stennis Research Program, \$60,000

- 2011-2012 **Co-Investigator**
Showcasing SNRE research at Saginaw Forest: A proposal to enhance local formal and informal environmental science education opportunities to strengthen the “Broader Impacts” of SNRE research.
 School of Natural Resources & Environment SEED, \$20,668
- 2010-2011 **Co-Investigator**
NOAA B-Wet National Evaluation System.
 National Oceanic and Atmospheric Administration \$72,775
- 2009-2015 **Co-Investigator**
A collaborative model for STEM secondary teacher education.
 National Science Foundation, \$1,416,250
- 2009-2010 **Principal Investigator**
The Environmental Educators’ Web-Based Consultant to Effective Evaluation, Phase III.
 US Forest Service/US Environmental Protection Agency, \$29,000
- 2007-2008 **Principal Investigator**
The Environmental Educators’ Web-Based Consultant to Effective Evaluation, Phase II.
 US Forest Service/US Environmental Protection Agency, \$103,000
- 2005-2008 **Principal Investigator**
The Environmental Educators’ Web-Based Consultant to Effective Evaluation.
 US Forest Service/US Environmental Protection Agency, \$250,000
- 2004-2006 **Principal Investigator**
A web-based information clearinghouse for Great Lakes education.
 Great Lakes Fishery Trust, \$90,000
- 2003-2004 **Principal Investigator**
Evaluation of the U.S. Environmental Protection Agency funded Environmental Education and Training Partnership (Year 4).
 University of Wisconsin, \$41,769
- 2001-2002 **Co-Investigator**
Sustainability education for sustainable communities.
 Environmental Protection Agency, \$74,000

- 2001-2002 **Co-Investigator**
*Using the Environment as an Integrating Context to improve Michigan
preserve teacher preparation.*
Michigan Dwight D. Eisenhower Higher Education Professional
Development Grant Programs, \$98,697
- 2001-2002 **Co-Investigator**
Chesapeake Bay Foundation Education program evaluation.
Chesapeake Bay Foundation, \$29,635
- 2000-2001 **Co-Investigator**
Great Lakes fisheries education assessment and summary of needs.
Great Lakes Fishery Trust, \$79,108
- 1999 **Principal Investigator**
Evaluating two models for fostering environmentally responsible behavior.
Rackham Graduate School, Spring/Summer Research Grants Program,
\$3,000
- 1998-1999 **Co-Investigator**
Chesapeake Bay Foundation education program evaluation.
Chesapeake Bay Foundation, \$89,834
- 1998-1999 **Principal Investigator**
Evaluation of Project Learning Tree's "Focus on Risk".
Project Learning Tree, \$3,000
- 1998-2002 **Principal Investigator**
*Visibility, outreach and recruiting: A program for experimentation in
Michigan.*
Cook Family Foundation, \$197,000
- 1997-1999 **Principal Investigator**
*What determines responsible environmental behavior? Evaluation of an EE
model.*
National Environmental Education & Training Foundation, \$16,340 with
\$9,000 match from Cook Family Foundation, Dow Chemical Co.
Foundation, Holnam Inc., and Weyerhaeuser Co. Foundation
- 1997 **Principal Investigator**
*An evaluation of environmental education methods courses at higher
education institutions in the US: How well are we preparing future
environmental educators?*
North American Association for Environmental Education, \$2,712

- 1996-1998 **Principal Investigator**
Educating youth about fish, fishing and fisheries management issues: A needs assessment.
 American Fisheries Society, Future Fisherman Foundation, & National Fish and Wildlife Foundation, \$12,200
- 1993-1995 **Co-Investigator**
Science and Environmental Education as a Means of Creating a Risk-Literate Great Lakes Citizenry.
 Michigan Sea Grant College Program, \$70,324
- 1993-1995 **Co-Investigator**
Zebra Mussel Outreach for Michigan.
 National Sea Grant College Program, \$90,000

MENTORING

Postdoctoral:

Jessica Ostrow Michael (Present)
 Pramod Kumar Sharma (2017-2018)
 Patrick Dowd (2008-2009)

Dissertations Chaired:

Tim Muhich, A theoretical and practical framework for effective and implementable climate change education of secondary students in the United States (Expected 2028)

Erin Gallay, Student learning in agency and justice through place-based environmental civic science: youth engaging in science for the public good (Expected 2025)

Jennifer Carman, Understanding and expanding the role of personal and household behavior in climate change adaptation (Defended 2020)

Lori Kumler, Secondary students' use of social and natural world information in a land use decision context (Defended 2009)

Beth Covitt, Motivation in environmental education: supporting middle school students' motives for helping the Chesapeake Bay (Defended 2004)

Dissertation Member:

Francisco Parra Camacho, Nepantlero identities, family presence, and rightful belonging in engineering for sustainable communities (Expected 2028)

Sarah Fick, Middle school students' opportunities for integration in a Next Generation Science Standards focused curricular unit (Defended 2014)

Laura Smith, The teaching green school building: exploring the contributions of school design to informal environmental education (Defended 2013)

Kim Wolske, Encouraging climate-friendly behaviors through a community energy challenge: the effects of information, feedback, and shared stories (Defended 2012)

Brett Levy, "I could make a difference" Research and theory on fostering adolescents' political efficacy and engagement (Defended 2011)

Cory T. Forbes, Preservice elementary teachers' development of pedagogical design capacity for inquiry – an activity-theoretical perspective (Defended 2009)

Anne Switzer, Assessing changes in high school students' environmental decision making skills: some methodological contributions (Defended 2009)

Marc Gaden, Bridging jurisdictional divides: collective action through a joint strategic plan for management of Great Lakes fisheries (Defended 2007)

Amara Tandy Brook, Effects of contingencies of self-worth on self-regulation of behavior (Defended 2005)

Christine Brittle, Global warnings: The impact of scientific elite disagreement on public opinion (Defended 2005)

Undergraduate & Master's Capstone Chair:

Supervised over 20 interdisciplinary School for Environment and Sustainability Master's Projects and individual theses such as:

Julien Dautremont-Smith, School sustainability rating systems: strengths, limitations and future prospects (2012).

PROFESSIONAL SERVICE

University of Michigan

- Member, Sustainability Curriculum Community of Practice, Office of the Provost, 2025-present
- Member, Student Success Initiative, Office of the Provost, 2024-present
- Chair, Advancing Climate Education (ACE) at the University of Michigan, 2022-2024
- Member, Council on Global Engagement, Office of the Provost, 2021-2025
- Member, Dean Search Committee, University of Michigan & Shanghai Jiao Tong University Joint Institute, 2021 & 2024
- Member, Academic Program Group, University of Michigan & Shanghai Jiao Tong University Joint Institute, 2020-2024
- Member, Associate Dean's Group Planning Committee, Office of the Provost, 2020-2025
- Member, Faculty Committee on Mentoring (MORE), Rackham Graduate School, 2017-2025
- Chair, Curriculum Working Group, New School for Sustainability and Environment Faculty Transition Team, Office of the Provost, 2016-2017
- Member, Faculty Advisory Board, Center for Research on Learning and Teaching (CRLT), 2012-2014

Editorial and Scientific Peer Review

Editorial Board Member:

- *International Journal of Sustainability in Higher Education*, 2014-2017
- *Conservation Biology*, 2004-2009
- *The Environmental Communication Yearbook/ Environmental Communication: a Journal of Nature and Culture*, 2004-2009
- *The Journal of Environmental Education*, 2003-Present

Ad-hoc Manuscript Reviewer:

- *Conservation Biology*
- *Education Sciences*
- *Environmental Education Research*
- *Evaluation and Program Planning*
- *International Journal of Science Education*
- *International Journal of Communication*
- *International Journal of Sustainability in Higher Education*
- *Journal of Applied Environmental Education and Communication*
- *Journal of Environmental Education*
- *Journal of Personality and Social Psychology*
- *Journal of Risk Research*
- *Research in Social Problems and Public Policy*
- *Michigan Academician*
- *Risk Analysis*
- *Studies in Educational Evaluation*

- *Zoo Biology*

Ad-hoc Book Reviewer:

- *International Handbook of Research in Environmental Education*
- *Communication Skills for Conservation Professionals* (2nd ed.)

Ad-hoc Grant Reviewer:

- Michigan Sea Grant College Program
- National Science Foundation
- National Oceanic and Atmospheric Administration
- Ohio Sea Grant College Program
- Social Sciences and Humanities Research Council of Canada
- United States Department of Agriculture, Cooperative Research and Extension Services

Professional Organization Leadership & Membership

Sustainability Education Accreditation Commission
Strategic Advisor & Peer Reviewer, 2025-present

National Sustainability Society, 2023-present

North American Association for Environmental Education

- Founder & Chair, Evaluation Clinic, 2014-2017
- Member, Pre-Service Training Advisory Committee, Environmental Education & Training Partnership, 2001-2005
- Member, Affiliates Conference Planning Committee, 1998-1999

Michigan Department of Education

- Member, Michigan Environmental Science and Studies Teacher Certification Committee, 2000-2002.

National Association for Research in Science Teaching

- Founder & Chair, Committee on Environmental Science Education, 2000-2002

American Fisheries Society

- Member, Conference Planning Committee, 1997-1998
- Member, Youth Education Committee, American Fisheries Society, 1995-1999
- Member, Conference Planning Committee, 1994-1995
- Founder & Chair, Youth Education Committee, 1994-1995

Michigan Alliance for Environmental and Outdoor Education

- Member, Advisory Committee, 1996-2002

Society for Risk Analysis

- Member, Executive Committee, Risk Communication Specialty Group, 1995-1997
- Member, Membership Committee, 1994-1996

Great Lakes Fishery Commission

- Secretary, Habitat Advisory Board, 1990-1995

PERSONAL

First Generation University Student

Languages: Fluent in English and German, novice French

Citizenship: Austria & Canada, USA green card holder