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EDUCATION

- Ph.D. Environmental Studies (Social Ecology), Yale University, New Haven, Connecticut, 2009; Dissertation: *Sense of Place and Environmental Behavior at an Ecoregional Scale*
- M.S. Natural Resource Management (Human Dimensions), University of Wisconsin, Stevens Point, Wisconsin, 1998; Thesis: *Environmental Education Policy at a National and Regional Scale in Nicaragua*
- B.B.A. International Business and French; Art History (minor), James Madison University, Harrisonburg, Virginia, 1993

ACADEMIC APPOINTMENTS

- 2021–2026 Barbara and Buzz McCoy (Bass) University Fellow in Undergraduate Education
- 2019–2023 Sykes Family Faculty Director, Emmett Interdisciplinary Program in Environment and Resources (E-IPER), Doerr School of Sustainability, Stanford University (Acting Director: 2018–19)
- 2018–present Emmett Family Faculty Scholar in Environmental Studies, Stanford University
- 2022–present Associate Professor, Environmental Behavioral Sciences, Doerr School of Sustainability, Stanford University
- 2016–2022 Associate Professor, Graduate School of Education, Stanford University
- 2016–present Senior Fellow, Woods Institute for the Environment, Stanford University
- 2008–2016 Center Fellow, Woods Institute for the Environment, Stanford University
- 2008–2016 Assistant Professor, Graduate School of Education, Stanford University

PUBLICATIONS

Refereed Journal Articles

- Voski, A., Wong-Parodi, G., and **Ardoin, N.M.** (In press.) Toward a planetary affective scientific framework for eco-emotions: Anger, grief, and further findings from exploratory fieldwork. *Global Environmental Psychology*.
- Santana, F., **Ardoin, N.M.**, Wong-Parodi, G. 2023. Mālama i ke kai: Exploring psychosocial factors associated with personal and community coral reef conservation behavior on Maui, Hawai'i. *Conservation Science and Practice*, <https://doi.org/10.1111/csp2.13002>
- Lin, V. and **Ardoin, N.M.** 2023. Connecting technologies and nature: Impact and opportunities for digital media use in the context of at-home family environmental learning. *Journal of Environmental Education*, 54(1), 72–83, <https://doi.org/10.1080/00958964.2022.2152411>
- Beckman, C., Wheaton, M., and **Ardoin, N.M.** 2023. Incorporating equity, justice, and access priorities into land trusts' conservation efforts. *Biological Conservation*, 279(2023), <https://doi.org/10.1016/j.biocon.2023.109926>
- Ardoin, N.M.**, Bowers, A.W., and Wheaton, M. 2023. Leveraging collective action and environmental literacy to address complex sustainability challenges. *Ambio*, <https://doi.org/10.1007/s13280-022-01764-6>
- Ardoin, N.M.**, Bowers, A.W., Kannan, A., and O'Connor, K. 2022. Positive youth development and environmental education: A review of research. *International Journal of Adolescence and Youth*, 27(1): 475–492, <https://doi.org/10.1080/02673843.2022.2147442>
- Ardoin, N.M.**, Bowers, A.W., Gaillard, E. 2022. A systematic mixed studies review of civic engagement outcomes in environmental education. *Environmental Education Research*, <https://doi.org/10.1080.13504622.2022.2135688>
- Green, K.M., Beaudreau, A.H., Lukin, M.K., and **Ardoin, N.M.** 2022. Pathways to subsistence management in Alaska national parks: Perspectives of harvesters and agency staff. *People and Nature*, 4: 1618–1632, <https://doi.org/10.1002/pan3.10414>
- Forsyth, J.E., Kempinsky, A., Pitchik, H.O., Alberts, C.J., Mutuku, F.M., Kibe, L., **Ardoin, N.M.**, and LaBeaud, A.D. 2022. Larval source reduction with a purpose: Designing and evaluating a household- and school-based intervention in coastal Kenya. *PLoS Neglected Tropical Diseases*, <https://doi.org/10.1371/journal.pntd.0010199>
- Douglas, I.P., Murnane, E.L., Bencharit, L.Z., Altaf, B., Costa, J. M. d. R., Yang, J., Ackerson, M., Srivastava, C., Cooper, M., Douglas, K., King, J., Paredes, P.E., Camp, N.P., Mauriello, M.L., **Ardoin, N.M.**, Markus, H.R., Landay, J.A., Billington, S.L. 2022. Physical workplaces and human well-being: A mixed-methods study to quantify the effects of materials, windows, and representation on biobehavioral outcomes. *Building and Environment*, <https://doi.org/10.1016/j.buildenv.2022.109516>

- Ardoin, N.M.**, Gould, R.K., Wojcik, D., Biggar, M., and Wyman Roth, N. 2022. Community listening sessions: An approach for facilitating collective reflection on environmental learning and behavior in everyday life. *Ecosystems and People*, 18:1, 469–477, <https://doi.org/10.1080/26395916.2022.2101531>
- Gibson, L.M., Busch, K.C., Stevenson, K.T., Cutts, B.B., DeMattia, E.A., Aguilar, O.M., **Ardoin, N.M.**, Carrier, S.J., Clark, C.R., Cooper, C.B., Feinstein, N.W., Goodwin, J., Peterson, M.N., Wheaton, M. 2022. What is community-level environmental literacy, and how can we measure it? A report of a convening to conceptualize and operationalize CLEL. *Environmental Education Research*, <https://doi.org/10.1080/13504622.2022.2067325>
- Braus, J.A., Heimlich, J.E., **Ardoin, N.M.**, and Clark, C.R. 2022. Building bridges, not walls: Exploring the environmental education ecosystem. *Applied Environmental Education and Communication*, 21:4, 319–330, <https://doi.org/10.1080/1533015X.2022.2115226>
- Strong, A.L. and **Ardoin, N.M.** 2021. Barriers to incorporating ecosystem services into coastal conservation practice: The case of blue carbon. *Ecology and Society*, 26:4, 40, <https://doi.org/10.5751/ES-12741-260440>
- Ardoin, N.M.** and Heimlich, J.E. 2021. Environmental learning in everyday life: Foundations of meaning and a context for change. *Environmental Education Research*, 27:12, 1681–1699, <https://doi.org/10.1080/13504622.2021.1992354>
- Crary, I., **Ardoin, N.M.**, and Gardner, C. 2021. Exploring the impact of child interaction with food preparation on vegetable preferences: A farm-based education approach. *Journal of Nutrition Education and Behavior*, 54:1, 46–55, <https://doi.org/10.1016/j.neb.2021.08.009>
- Swanson, S. and **Ardoin, N.M.** 2021. Communities behind the lens: A review and critical analysis of Visual Participatory Methods in biodiversity conservation. *Biological Conservation*, 262, 109293, <https://doi.org/10.1016/j.biocon.2021.109293>
- Reid, A., Dillon, J., **Ardoin, N.M.**, and Ferreria, J. 2021. Scientists’ warnings and the need to reimagine, recreate, and restore environmental education. *Environmental Education Research*, 27:6, 783–795, <https://doi.org/10.1080/13504622.2021.1937577>
- Wojcik, D.J., **Ardoin, N.M.**, and Gould, R.K. 2021. Using social network analysis to explore and expand our understanding of a robust environmental learning landscape. *Environmental Education Research*, 27:9, 1263–1283, <https://doi.org/10.1080/13504622.2021.1905779>
- Salazar, G., Monroe, M.C., Jordan, C., **Ardoin, N.M.**, and Beery, T.H. 2021. Improving assessments of connection to nature: A participatory approach. *Frontiers in Ecology and Evolution*, 8, 498, <https://doi.org/10.3389/fevo.2020.609104>
- Ardoin, N.M.** and Bowers, A.W. 2020. Early childhood environmental education: A systematic review of the research literature. *Educational Research Review*, 31, 100353, <https://doi.org/10.1016/j.edurev.2020.100353>

- Selby, S., Cruz, A., **Ardoin, N.M.**, and Durham, W.B. 2020. Community-as-pedagogy: Environmental leadership for youth in rural Costa Rica. *Environmental Education Research*, 26:11, 1594–1620, <https://doi.org/10.1080/13504622.2020.1792415>
- Forsyth, J.E., Mutuku, F.M., Kibe, L., Egemba, C., **Ardoin, N.M.**, and LaBeaud, D. 2020. Source reduction with a purpose: Mosquito ecology and community perspectives offer insights for improving household mosquito management in coastal Kenya. *PLoS Neglected Tropical Diseases*, 14:5, e0008239, <https://doi.org/10.1371/journal.pntd.0008239>
- Mason, J., Alfaro-Shigueto, J., Mangel, J., Crowder, L., and **Ardoin, N.M.** 2020. Fishers' solutions for hammerhead shark conservation in Peru. *Biological Conservation*, 243, 108460, <https://doi.org/10.1016/j.biocon.2020.108460>
- Clark, C.R., Heimlich, J.E., **Ardoin, N.M.**, and Braus, J. 2020. Using a Delphi study to clarify the landscape and core outcomes in environmental education. *Environmental Education Research*, 26:3, 381–399, <https://doi.org/10.1080/13504622.2020.1727859>
- Talebpour, L.M., Busk, P.L., Heimlich, J.E., and **Ardoin, N.M.** 2020. Children's connection to nature as fostered through residential environmental education programs: Key variables explored through surveys and field journals. *Environmental Education Research*, 26:1, 95–114, <https://doi.org/10.1080/13504622.2019.1707778>
- Ardoin, N.M.**, Gaillard, E., and Bowers, A.W. 2020. Environmental education outcomes for conservation: A systematic review. *Biological Conservation*, 241, 108224, <https://doi.org/10.1016/j.biocon.2019.108224>
- Mach, K., Lemos, M.C., Meadow, A.M., Wyborn, C., Klenk, N., Arnott, J.C., **Ardoin, N.M.**, Fiesler, C., Moss, R.H., Nichols, L., Stults, M., Vaughan, C., and Wong-Parodi, G. 2020. Actionable knowledge and the art of engagement. *Current Opinion in Environmental Sustainability*, 42, 30–37, <https://doi.org/10.1016/j.cosust.2020.01.002>
- Busch, K.C., **Ardoin, N.M.**, Gruehn, D., and Stevenson, K. 2019. Exploring a theoretical model of climate change action for youth. *International Journal of Science Education*, 41:17, 2389–2409, <https://doi.org/10.1080/09500693.2019.1680903>
- Ardoin, N.M.**, Gould, R.K., Lukacs, H., Sponarski, C.C., and Schuh, J.S. 2019. Scale and sense of place among urban dwellers. *Ecosphere*, 10:9, e02871, <https://doi.org/10.1002/ecs2.2871>
- Forsyth, J.E., Nurunnahar, S., Islam, S., Baker, M., Yeasmin, D., Islam, M.S., Rahman, M., Fendorf, S., **Ardoin, N.M.**, Winch, P.J., and Luby, S.P. 2019. Turmeric means “yellow” in Bengali: Lead chromate pigments added to turmeric threaten public health across Bangladesh. *Environmental Research*, 179: Part A, 108722, <https://doi.org/10.1016/j.envres.2019.108722>
- Niemiec, R.M., Willer, R., **Ardoin, N.M.**, and Brewer, F.K. 2019. Motivating landowners to recruit neighbors for private land conservation. *Conservation Biology*, 33:4, 930–941, <https://doi.org/10.1111/cobi.13294>

- Lemos, M.C., Arnott, J.C., **Ardoin, N.M.**, Baja, K., Bednarek, A.T., Dewulf, A., Fieseler, C., Goodrich, K.A., Jagannathan, K., Klenk, N., and Turnhout, E. 2018. To co-produce or not to co-produce. *Nature Sustainability*, 1, 722–724, <https://doi.org/10.1038/s41893-018-0191-0>
- Gould, R.K., **Ardoin, N.M.**, Thomsen, J.M., and Wyman Roth, N. 2018. Exploring connections between environmental learning and behavior through four everyday-life case studies. *Environmental Education Research*, 25:3, 314–334, <https://doi.org/10.1080/13504622.2018.1510903>
- Gould, R.K., Krymkowski, D., **Ardoin, N.M.** 2018. The Importance of culture in predicting environmental behavior in middle school students on Hawai'i Island. *PLoS ONE*, 13:11, e0207087, <https://doi.org/10.1371/journal.pone.0207087>
- Niemiec, R.M., **Ardoin, N.M.**, Brewer, F.K., Kung, S., and Lopez, K. 2018. Increased neighbor interaction and fear of social sanctions: Associations with resident action to control the invasive little fire ant. *Society and Natural Resources*, 31:10, 1149–1168, <https://doi.org/10.1080/08941920.2018.1456594>
- Gould, R.K., Phukan, I., Mendoza, M.E., **Ardoin, N.M.**, and Panikkar, B. 2018. Seizing opportunities to diversify conservation. *Conservation Letters*, 11:4, e12431, <https://doi.org/10.1111/conl.12431>
- Niemiec, R.M., Asner, G.P., Brodrick, P.G., Gaertner, J.A., and **Ardoin, N.M.** 2018. Scale-dependence of environmental and socioeconomic drivers of albizia invasion in Hawaii. *Landscape and Urban Planning*, 169, 70–80, <https://doi.org/10.1016/j.landurbplan.2017.08.008>
- Reineman, D.R. and **Ardoin, N.M.** 2018. Sustainable tourism and the management of nearshore coastal places: Place attachment and disruption to surf-spots. *Journal of Sustainable Tourism*, 26:2, 325–340, <https://doi.org/10.1080/09669582.2017.1352590>
- Browning, M.H.E.M., Stern, M.J., **Ardoin, N.M.**, and Heimlich, J.E. 2018. Factors that contribute to community members' support of local nature centers. *Environmental Education Research*, 24:3, 326–342, <https://doi.org/10.1080/13504622.2016.1217397>
- Ardoin, N.M.**, Bowers, A.W., Wyman Roth, N., and Holthuis, N. 2018. Environmental education and K–12 student outcomes: A review and analysis of research. *The Journal of Environmental Education*, 49:1, 1–17, <https://doi.org/10.1080/00958964.2017.1366155>
- Stern, M.J., Frensley, B., Powell, R.B., and **Ardoin, N.M.** 2018. What difference do role models make? Investigating outcomes at a residential environmental education center. *Environmental Education Research*, 24:6, 818–830, <https://doi.org/10.1080/13504622.2017.1313391>
- Biggar, M.T. and **Ardoin, N.M.** 2017. Community context, human needs, and transportation choices: A view across San Francisco Bay Area communities. *Journal of Transport Geography*, 60, 189–199, <https://doi.org/10.1016/j.jtrangeo.2017.03.005>

- Niemiec, R.M., **Ardoin, N.M.**, Wharton, C.B., and Brewer, F.K. 2017. Civic and natural place attachment as correlates of resident invasive species control behavior in Hawaii. *Biological Conservation*, 209, 415–422, <https://doi.org/10.1016/j.biocon.2017.02.036>
- Khalil, K.A., **Ardoin, N.M.**, and Wojcik, D.J. 2017. Social learning within a community of practice: Investigating interactions about evaluation among zoo education professionals. *Evaluation and Program Planning*, 61, 45–54, <https://doi.org/10.1016/j.evalprogplan.2016.12.001>
- Browning, M.H.E.M., Stern, M.J., **Ardoin, N.M.**, Heimlich, J.E., Petty, R., and Charles, C. 2017. Investigating the sets of values that community members hold toward local nature centers. *Environmental Education Research*, 23:9, 1291–1306, <https://doi.org/10.1080/13504622.2016.1177713>
- Biggar, M.T. and **Ardoin, N.M.** 2017. More than good intentions: The role of conditions in personal transportation behaviour. *Local Environment*, 22:2, 141–155, <https://doi.org/10.1080/13549839.2016.1177715>
- Stern, M.J., **Ardoin, N.M.**, and Powell, R.B. 2017. Exploring the effectiveness of outreach strategies in conservation projects: The case of the Audubon Toyota TogetherGreen program. *Society and Natural Resources*, 30:1, 95–111, <https://doi.org/10.1080/08941920.2016.1164266>
- Ardoin, N.M.**, DiGiano, M.L., O’Connor, K., and Podkul, T.E. 2017. The development of trust in residential environmental education programs. *Environmental Education Research*, 23:9, 1335–1355, <https://doi.org/10.1080/13504622.2016.1144176>
- Lukacs, H., **Ardoin, N.M.**, and Grubert, E. 2016. Beyond formal groups: Neighboring acts and watershed protection in Appalachia. *International Journal of the Commons*, 10:2, 878–901, <https://doi.org/10.18352/ijc.578>
- Boudet, H.S., **Ardoin, N.M.**, Flora, J., Armel, K.C., Desai, M., and Robinson, T.R. 2016. Effects of a behaviour change intervention for Girl Scouts on child and parent energy-saving behaviours. *Nature Energy*, 1, 16091, <https://doi.org/10.1038/nenergy.2016.91>
- Gould, R.K., **Ardoin, N.M.**, Biggar, M., Cravens, A.E., and Wojcik, D. 2016. Environmental behavior’s dirty secret: The prevalence of waste management in discussions of environmental concern and action. *Environmental Management*, 58:2, 268–282, <https://doi.org/10.1007/s00267-016-0710-6>
- Lincoln, N.K. and **Ardoin, N.M.** 2016. Cultivating values: Environmental values and sense of place as correlates of sustainable agricultural practices. *Agriculture and Human Values*, 33:2, 389–401, <https://doi.org/10.1007/s10460-015-9613-z>
- Khalil, K.A., **Ardoin, N.M.**, and Wojcik, D.J. 2016. The Company you keep: Networks in a community of informal education evaluators. *Studies in Educational Evaluation*, 51, 7–16, <https://doi.org/10.1016/j.stueduc.2016.08.006>

- Cravens, A.E. and **Ardoin, N.M.** 2016. Negotiating credibility and legitimacy in the shadow of an authoritative data source. *Ecology and Society*, 21:4, 30, <https://doi.org/10.5751/ES-08849-210430>
- Lincoln, N.K. and **Ardoin, N.M.** 2016. Farmer typology in South Kona, Hawai'i: Who's farming, how, and why? *Food, Culture, & Society*, 19:3, 563–585, <https://doi.org/10.1080/15528014.2016.1208341>
- Oakes, L.E., **Ardoin, N.M.**, and Lambin, E.F. 2016. "I know, therefore I adapt?" Complexities of individual adaptation to climate-induced forest dieback in Alaska. *Ecology and Society*, 21:2, 40, <https://doi.org/10.5751/ES-08464-210240>
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- Ardoin, N.M.**, Schuh, J., and Khalil, K. 2016. Environmental behavior of visitors to a science museum. *Visitor Studies*, 19:1, 77–95, <https://doi.org/10.1080/10645578.2016.1144029>
- Ardoin, N.M.**, Clark, C.C., and Wojcik, D. 2016. Looking toward the blue sky: Environmental education researchers' experience, influences, and aspirations. *Applied Environmental Education & Communication*, 15:1, 75–89, <https://doi.org/10.1080/1533015X.2016.1141725>
- Ardoin, N.M.**, Wheaton, M., Hunt, C., Schuh, J., and Durham, W. 2016. Post-trip philanthropic intentions of nature-based tourists in Galapagos. *Journal of Ecotourism*, 15:1, 21–35, <https://doi.org/10.1080/14724049.2016.1142555>
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- Ardoin, N.M.**, DiGiano, M., O'Connor, K., and Holthuis, N. 2016. Using online narratives to explore participant experiences in a residential environmental education program. *Children's Geographies*, 14: 3, 263–281, <https://doi.org/10.1080/14733285.2015.1033615>
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- Gould, R.K., Klain, S.C., **Ardoin, N.M.**, Satterfield, T., Woodside, U., Hannahs, N., Daily, G.C., and Chan, K.M. 2015. A protocol for eliciting nonmaterial values through a cultural ecosystem services frame. *Conservation Biology*, 29:2, 575–586, <https://doi.org/10.1111/cobi.12407>
- Rich, H. and **Ardoin, N.M.** 2014. Teacher and administrator perceptions of school gardens in Cape Town, South Africa. *Children, Youth and Environments*, 24:3, 58–79, <https://doi.org/10.7721/chilyoutenvi.24.3.0058>
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- Ardoin, N.M.**, Gould, R.K., Kelsey, E., and Fielding-Singh, P. 2015. Collaborative and transformational leadership in the environmental realm. *Journal of Environmental Policy & Planning*, 17:3, 360–380, <https://doi.org/10.1080/1523908X.2014.954075>
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- Ardoin, N.M.** 2014. Exploring sense of place and environmental behavior at an ecoregional scale in three sites. *Human Ecology*, 42:3, 425–441, <https://doi.org/10.1007/s10745-014-9652-x>
- Ardoin, N.M.**, DiGiano, M., Bundy, J., Chang, S., Holthuis, N., and O'Connor, K. 2014. Using digital photography and journaling in evaluation of field-based environmental education programs. *Studies in Educational Evaluation*, 41, 68–76, <https://doi.org/10.1016/j.stueduc.2013.09.009>
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- Stern, M., Powell, R., and **Ardoin, N.M.** 2008. What difference does it make? Assessing outcomes from participation in a residential environmental education program. *The Journal of Environmental Education*, 39:4, 31–43, <https://doi.org/10.3200/JOEE.39.4.31-43>
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Powell, R., Stern, M., and **Ardoin, N.M.** 2006. A Sustainable evaluation framework and its application. *Applied Environmental Education and Communication*, 5:4, 231–241, <https://doi.org/10.1080/15330150601059290>

Ardoin, N.M. and Sivek, D. 2002. An environmental education needs assessment study in the Carazo Department of Nicaragua. *Applied Environmental Education and Communication*, 1:4, 235–244, <https://doi.org/10.1080/15330150290106185>

Edited Volumes

Reid, A., **Ardoin, N.M.**, and Ferreria, J., eds. (In development.) *Environmental Education: A Handbook of Theory, Research, and Practice*. London: Wiley-Blackwell.

Book Chapters

Ardoin, N.M., Bowers, A.W., and O'Connor, R. 2023. How Place-Based Connections, Environmental Learning, and Social-Ecological Interactions Influence Sustainability-Related Decisionmaking. In Crowder, L., ed., *Navigating Our Way to Marine Solutions*. New York, NY: Open Publications.

Heimlich, J.E. and **Ardoin, N.M.** 2023. Visitors and Conservation: Seeking Behavior. In Fraser, J., Heimlich, J.E., Riedinger, K., and Gupta, R., eds., *Understanding Zoos and Aquariums in the Public Mind*. New York, NY: Springer Nature.

Johnson, B., Dunifon, S.M., Thomas, S., **Ardoin, N.M.**, and Saunders, M. 2023. Evaluating the AZA Framework for Zoo and Aquarium Social Science Research: A Review and Analysis of Relevant Literature 2011-2019. In Fraser, J., Heimlich, J.E., Riedinger, K., and Gupta, R., eds., *Understanding Zoos and Aquariums in the Public Mind*. New York, NY: Springer Nature.

Ardoin, N.M., Bowers, A.W., Lin, V., and Phukan, I. 2022. Design Thinking as a Catalyst and Support for Sustainability Solutions. In Meinel, C., and Leifer, L., eds., *Design Thinking Research*. New York, NY: Springer International.

Ardoin, N.M., Reid, A., Lotz-Sisitka, H., and Gonzalez-Gaudio, E. 2017. Afterword. In Russ, A. and Krasny, M., eds., *Urban Environmental Education Review*. Ithaca, NY: Cornell University Press.

Stedman, R. and **Ardoin, N.M.** 2013. Mobility and Scale in Place-Based Environmental Education. In Krasny, M. and Dillon, J., eds., *Trading Zones in Environmental Education: Creating Transdisciplinary Dialogue*. New York, NY: Peter Lang Publishers.

Gould, R.K., **Ardoin, N.M.**, and Hashimoto, J. 2013. Transposing the Conversation into Popular Idiom: The Reaction to Avatar in Hawaii. In Taylor, B., ed., *Avatar and Nature Spirituality*. Waterloo, Ontario, Canada: Wilfrid Laurier University Press, Environmental Health Series.

Ardoin, N.M. 2009. Behavior Change Theories and Free-Choice Environmental Learning. In Falk, J., Heimlich, J.E., and Foutz, S., eds., *Free Choice Learning and the Environment*. Lanham, MD: AltaMira Press.

Encyclopedia Entries

Reid, A. and **Ardoin, N.M.** (Forthcoming.) Environmental Education. *Oxford Bibliographies in Education*.

Ardoin, N.M. and Bowers, A.W. 2013 (Updated 2019). Ecotourism. *Oxford Bibliographies in Ecology*.

Peer-Reviewed Articles in Submission

In Revision

Ardoin, N.M., Gould, R.K., Wheaton, M., O'Connor, K., Wojcik, D., and Wyman Roth, N. Complementary Interactional Contexts Facilitate Learning About the Environment in Everyday Life. *Ecosystems and People*.

Gould, R.K., **Ardoin, N.M.**, Biggar, M., Wyman Roth, N., and Sponarski, C. The configuration of environmental concern. *Society & Natural Resources*.

Scott-Buechler, C., Osman, K., **Ardoin, N.M.**, Fraser, C., Adcox, G., Cain, B., Polk, E., and Jackson, R. Community perceptions of and preconditions for direct air capture in the U.S. *Nature Communications Earth and Environment*.

Wheaton, M., **Ardoin, N.M.**, Bowers, A.W. Environmental literacy through a learning theory lens. *Environmental Education Research*.

Under Review

Langhans, K., Callahan, M., Echeverri, A., Nguyen, O., Xu, M., **Ardoin, N.M.**, Daily, G. Equity in access to positive human-bird interactions in urban agroecosystems in San Francisco. *People and Nature*.

Douglas, I.P., **Ardoin, N.M.**, Markus, H.R., Landay, J.A., and Billington, S.L. Space and well-being: A study to quantify the effects of materials, lighting, and representation on biobehavioral outcomes. *Proceedings of the National Academy of Sciences of the United States of America*.

Lewis, S., Beouch, J., and **Ardoin, N.M.** Tracing a watershed policy network: Causal relationships between network characteristics and adaptive governance processes. *Coastal Management*.

Ardoin, N.M., Wheaton, M., Sponarski, C., and Farber, A.G. Environmental literacy among middle school students in Galapagos: Developing a baseline of knowledge, attitudes, and behaviors. *Environmental Conservation*.

Selected Articles in Preparation

- Ardoin, N.M.**, Wheaton, M., and Hunt, C. Ecotourists in Galapagos: Diversity in environmental attitudes, knowledge, behaviors, and motivations. *Journal of Sustainable Tourism*.
- Ardoin, N.M.**, Gould, R.K., Thomsen, J., and Biggar, M.T. Everyday-life environmental behavior: Intertwined motivations, concerns, and barriers. *Journal of Environmental Studies and Sciences*.
- Farber, A.G., **Ardoin, N.M.**, Knab, R., and Roman, D.X. Perceptions of environmental literacy in the Galapagos context. *Conservation Science and Practice*.
- Lee, A.S., and **Ardoin, N.M.** Learning in farmers markets. *PLoS ONE*.

Selected Professional Publications

- Jordan, C., Salazar, G., Braus, J., Kunkle, K., Monroe, M.C., and **Ardoin, N.M.** 2020. *Practitioner Guide to Assessing Connection to Nature*. Gainesville: University of Florida Extension; Washington, DC: North American Association for Environmental Education.
- Ardoin, N.M.** Project lead. January 2011–May 2019. *Environmental Education Research Bulletins: Issues 1–14*. Oakland, CA: NatureBridge, ChangeScale, and the North American Association for Environmental Education. Available at <http://www.changescale.org/resources/environmental-education-research-bulletins/>
- Wheaton, M., Kannan, A., and **Ardoin, N.M.** 2018. *Pathways in Environmental Literacy (Environmental Literacy Brief, Volume 2)*. Stanford, CA: Social Ecology Lab, Stanford University.
- Wheaton, M., Kannan, A., and **Ardoin, N.M.** 2018. *Learning, Developmental, and Environmental Action Progressions (Environmental Literacy Brief, Volume 3)*. Stanford, CA: Social Ecology Lab, Stanford University.
- Wheaton, M., Kannan, A., and **Ardoin, N.M.** 2018. *The Concept of Dosage in Environmental and Wilderness Education (Environmental Literacy Brief, Volume 4)*. Stanford, CA: Social Ecology Lab, Stanford University.
- Biggar, M.T., **Ardoin, N.M.**, and Morris, J. 2017. Collective Impact on the Ground. *Stanford Social Innovation Review* online issue. Available at https://ssir.org/articles/entry/collective_impact_on_the_ground.
- Biggar, M., **Ardoin, N.M.**, and Wojcik, D. 2015. *Implementing Collective Impact in an Environmental Education Collaborative: A Case Study of the Collective Impact Process During ChangeScale's First Three Years* (a report prepared for ChangeScale). Stanford, CA: Stanford University.
- Ardoin, N.M.**, Fu, A., and Holthuis, N. 2013. *A Review of California's Education and the Environment Initiative (EEI) Curriculum* (a report prepared for Pisces Foundation). Stanford, CA: Stanford University.

- Ardoin, N.M.**, Heimlich, J., Braus, J., and Merrick, C. 2013. *Influencing Conservation Action: What the Research Says About Environmental Literacy, Behavior, and Conservation Results*. Washington, DC: National Audubon Society, U.S. EPA, and U.S. Fish and Wildlife Service.
- Ardoin, N.M.** and Merrick, C. 2013. *Environmental Education: A Brief Guide for U.S. Grantmakers*. Washington, DC: NAAEE; and Boston, MA: Cedar Tree Foundation.
- Braus, J., **Ardoin, N.M.**, Ady, J., Coleman, J., Ford, M., Grimm, K., Heimlich, J., Hopkins, M., Jeppesen, G., Mann, L., Merrick, C., Miller, F., Petty, B., and Slavin, Z. 2011. *Tools of Engagement: A Toolkit for Incorporating Social Strategies into Environmental Conservation*. Washington, DC: National Audubon Society, U.S. EPA, and U.S. Fish and Wildlife Service.
- Ardoin, N.M.** 2009. *Environmental Education: A Strategy for the Future*. New York, NY: Environmental Grantmakers Association.
- Ardoin, N.M.** 2005. *Charles Darwin Foundation Annual Report, 2004*. Puerto Ayora, Galapagos, Ecuador: Charles Darwin Foundation.
- Ardoin, N.M.** 2004. *Community Biodiversity Education Partnership Program Outreach Kit Guide*. Washington, DC: World Wildlife Fund.
- Braus, J., Olivolo, B., and **Ardoin, N.M.** 2003. *Oceans of Life: An Educator's Guide to Marine Biodiversity*. Washington, DC: World Wildlife Fund.
- Braus, J., Olivolo, B., and **Ardoin, N.M.** 2001. *Wildlife for Sale: An Educator's Guide to Wildlife Trade*. Washington, DC: World Wildlife Fund.
- Braus, J., Olivolo, B., and **Ardoin, N.M.** 1999. *Biodiversity Basics: An Educator's Guide to Exploring the Web of Life*. Washington, DC: World Wildlife Fund.

GRANTS

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|-----------|---|
| 2022–2023 | Co-Investigator, <i>Accelerating 30x30 through a Collaborative Regional Prioritization Partnership</i> , Sustainability Accelerator Grant, \$100,000 |
| 2021–2022 | Principal Investigator, <i>Tracking Socio-Ecological Recovery after Forest Fire: The Case of Big Basin State Park</i> , Stanford's Digital Learning Initiative, \$50,000 |
| 2020–2022 | Principal Investigator, <i>Collective Action for Sustainability Solutions: How Might Design Thinking Catalyze Shifts from Individual to Community Mindsets?</i> The HPI-Stanford Design Thinking Research Program, \$100,000 |
| 2020–2022 | Co-Investigator, <i>Optimizing Environmental Communication Through Natural Language Processing, Psychometric Surveys, and Field Experiments</i> , Environmental Ventures Project (EVP) Fund, Stanford Woods Institute for the Environment. Principal Investigator: Brian Knutson, \$199,507 |
| 2020–2022 | Co-Investigator, <i>Harnessing Large-Scale Marine Protection for Biodiversity Conservation and Food Security</i> , Environmental Ventures Project (EVP) Fund, |

- Stanford Woods Institute for the Environment. Principal Investigator: Fiorenza Micheli, Biology, Stanford University; \$193,071
- 2020–2021 Principal Investigator, *A Social Science/Sustainability Incubator: Interdisciplinary Scholarship and Practice to Amplify Impact and Redefine Solutions*, Sustainability Seed Grant, Stanford, \$91,800
- 2020–2021 Principal Investigator, *Fostering Hope and Collective Behavioral Response in the COVID-19 Pandemic: Leveraging Insights from Sustainability and Climate Change*, COVID-RISE, Stanford, \$49,400
- 2020–2021 Principal Investigator, *Families Sheltering in Nature: Toward Equitable Access to Outdoor Learning Experiences During the COVID-19 Pandemic*, National Geographic Society, \$50,000
- 2020–2021 Principal Investigator, *Walking the Razor’s Edge: Exploring Hope and Concern in Response to Climate Change*, The Changing Human Experience: Cultivating Humanities, Stanford University; \$50,000
- 2020–2021 Principal Investigator, *Moving from the Individual to the Collective: Understanding and Measuring Environmental Literacy at the Community Scale*, Pisces Foundation, \$400,000
- 2020–2021 Principal Investigator, *Environmental Learning in California’s Redwood Forests: Strengthening Climate-Change Education Through Equity-Centered Design of an Augmented Reality (AR) Application*, Technology for Equity in Learning Opportunities (TELOS), Graduate School of Education, Stanford University, \$100,000
- 2019–2021 Co-Principal Investigator, *Hybrid Physical and Digital Spaces for Enhanced Sustainability and Wellbeing*, Stanford Catalyst for Collaborative Solutions. Principal Investigator: Sarah Billington, Civil and Environmental Engineering, Stanford, \$1,000,000
- 2019–2020 Principal Investigator, *Leveraging the Science of Storytelling to Build Empathy and Connection with California’s Iconic Coastal Redwood Forests*, National Geographic Society Fund, \$48,000
- 2018–2020 Principal Investigator, *Blue Habits (Phase II): Leveraging Behavioral Science to Support Pro-Ocean Behaviors*, Booking Cares Fund. In partnership with The Oceanic Society, \$100,000
- 2018–2019 Partner, *ee360: Leadership and Training Collaborative*, US Environmental Protection Agency. Lead Partner: North American Association for Environmental Education, Overall grant: \$10.8 million; Stanford/Ardoin portion: \$132,248 for first 2 years (continuation grant: 5 years)
- 2018–2019 Co-Principal Investigator, *Connection to Nature Assessment Project*, Pisces Foundation. Principal Investigator: Martha Monroe, University of Florida; co-PIs: Judy Braus, North American Association for Environmental Education; Cathy Jordan, Children & Nature Network, \$100,000

- 2017–2021 Principal Investigator, *Research and Practice: Students and Land Managers Collaborating for Solutions*, Realizing Environmental Innovations Projects (REIP) Fund, Stanford Woods Institute for the Environment. Co-Principal Investigator: Deborah Gordon, Biology, Stanford, \$199,875
- 2017–2019 Co-Principal Investigator, *Coastal Fog-Mediated Interactions Between Climate Change, Upwelling, and Coast Redwood Resilience: Projecting Vulnerabilities and the Human Response*, NSF Coastal SEES Program. Principal Investigator: Elliott Campbell, U.C. Merced, Overall grant: \$1.8 mm; PI Ardoin portion: \$290,000
- 2017–2019 Principal Investigator, *Program Practices Influencing Environmental Literacy: Key Considerations as Suggested in the Research Literature*, Pisces Foundation, \$150,000
- 2016–2020 Co-Principal Investigator, *Girls Learning Environment and Energy: Dissemination and Sustainability*, Realizing Environmental Innovations Projects (REIP) Fund, Stanford Woods Institute. Principal Investigator: Thomas Robinson, Stanford School of Medicine, \$200,000
- 2016–2018 Principal Investigator, *Anecdotes to Evidence (eeWorks): Examining the Body of Evidence for Environmental Education with Regard to Conservation, Wellbeing, Nature Connection, and Academic Outcomes*, North American Association for Environmental Education, \$55,220
- 2016–2018 Co-Investigator, *Investigating the Long-Term Impacts of Informal Science Learning at Zoos and Aquariums*, NSF Science Learning Plus. Principal Investigators: Wildlife Conservation Society and the Zoological Society of London, \$114,000
- 2015–2018 Principal Investigator, *Blue Habits (Phase I): Motivating Lasting Pro-Ocean Behaviors Among Nature-Based Travelers and Beyond*, Oceanic Society, \$150,000
- 2015 Principal Investigator, *Community Conservation: Examining Environmental Behavior as Motivated by Participation in Aquarium Programs*, Monterey Bay Aquarium, \$155,000
- 2014–2016 Principal Investigator, *Evaluating the Impact of Field-Based Environmental Education Experiences on Stewardship Behavior*, NatureBridge, \$65,000
- 2014–2015 Principal Investigator, *Environmental Education for Academic Impact: Investigating the Empirical Basis of K-12 and Student Outcomes in the Environmental Education Field*, Pisces Foundation, \$23,000
- 2014–2015 Principal Investigator, *Environmental Learning in the San Francisco Bay Area: Networks, Place Connections, Stewardship, and Educational Outcomes*, S. D. Bechtel, Jr. Foundation, \$1,024,728
- 2014–2015 Co-Investigator, *Investigating the Value of Nature Centers in Communities*, Institute for Museum and Library Sciences, National Audubon Society as Managing Partner with Sub-award to Stanford. Co-Investigators: Robert Petty,

- National Audubon Society; Marc Stern, Virginia Tech; Joe Heimlich, The Ohio State University, \$459,732 (Ardoin sub-award: \$23,000)
- 2012–2015 Principal Investigator, *Innovative Metrics in Field Science Education: Exploring Environmental Science Literacy and Sustainability Outcomes*, Gordon and Betty Moore Foundation, \$184,000
- 2012–2014 Principal Investigator, *Improving the Next Generation of Grantmaking Through Building the Capacity of Foundation Program Officers in Evaluation and Adaptive Management*, William and Flora Hewlett Foundation. Co-Investigator: C.R. Hibbs, Stanford Center for Philanthropy and Civil Society, \$125,000
- 2012–2013 Principal Investigator, *Review of Selected Units in California’s Education and the Environment Initiative Curriculum*, Pisces Foundation, \$23,000
- 2012–2013 Principal Investigator, *Motivating Philanthropic Support and Environmental Behavior in Galapagos and Beyond*, Celebrity Cruises and Galapagos Conservancy, In-kind
- 2012 Principal Investigator, *Facilitating Environmental Behavior: Leveraging Nature-Based Tourism into Everyday Stewardship*, Primary funding by the Environmental Ventures Projects Program of the Stanford Woods Institute for the Environment. Co-Investigator: William Durham, Department of Anthropology, Stanford University, \$249,950
- 2012 Principal Investigator, *Research-to-Practice: Translating Environmental Education Research for Practitioners*, NatureBridge, \$23,000
- 2011–2013 Principal Investigator, *Designing Research to Strengthen Environmental Education in the Bay Area and Beyond*, S.D. Bechtel, Jr. Foundation, \$100,000
- 2011–2013 Principal Investigator, *Environmental Knowledge, Attitudes, and Behavior of Visitors to the Snakes and Lizards Traveling Exhibition at the California Academy of Sciences*, California Academy of Sciences, In-kind
- 2011 Co-Investigator, *Environmental Education to Motivate Energy-Efficient Behavior: Community-Based Interventions with the Girl Scouts of Northern California*, U.S. Department of Energy’s ARPA-E Program. Principal Investigator: Byron Reeves, Department of Communication, Stanford; Co-Investigator: Thomas Robinson, Department of Pediatrics, Stanford School of Medicine, \$690,000
- 2011 Co-Investigator, *The Value of Nature Centers to Communities: Building a Sense of Place and Motivating Stewardship*, Institute of Museum and Library Services. Fiscal agent: National Audubon Society. Co-Investigators: Judy Braus, National Audubon Society; Joe Heimlich, The Ohio State University; Marc Stern, Virginia Tech, \$49,750
- 2010–2013 Principal Investigator, *Research on Effective Practices in Teacher Professional Development in Environmental Education*, NatureBridge and the S.D. Bechtel, Jr., Foundation, \$20,000

- 2010–2011 Co-Investigator, *Mapping Out-of-School Time: Examining Sense of Place and Self-Efficacy Among East Palo Alto Youth Through a Collaborative Study*, UPS Foundation. Co-Investigator: Milbrey McLaughlin, Graduate School of Education, John W. Gardner Center for Youth and Their Communities, \$44,000
- 2010 Principal Investigator, *Evaluation Research of the First Nations Futures Fellows Program: Building Leadership for the Future*, Kamehameha Schools and Stanford Woods Institute for the Environment, \$24,000
- 2009–2011 Co-Investigator, *TogetherGreen Research and Evaluation: Motivating Environmental Behavior and Achieving Environmental Conservation Outcomes Through a Fellowship and Grants Program*, National Audubon Society and Toyota Motor Corporation. Fiscal agent: Clemson University. Co-Investigators: Bob Powell, Clemson University; Marc Stern, Virginia Tech, \$450,000
- 2009–2010 Principal Investigator, *Philanthropic Support of Environmental Education: Trends and Opportunities*, Switzer Foundation, in partnership with the Environmental Grantmakers Association, \$20,000
- 2008–2013 Lead Researcher, *Bringing Buildings to Life: The Impact of Green Buildings on Environmental Knowledge, Behavior, and Connection to Place Among Middle School Students and Teachers*, PI: Stephen R. Kellert, Yale University

SELECTED INVITED TALKS SINCE 2008

- 2023 Invited keynote, Inspiring Sustainable Action through Learning, Educational Sustainability Ed.D. Program, University of Wisconsin, Stevens Point, WI. 20 June.
- 2023 Invited panelist, Kids and Climate Change, Children’s Media Association, 25 April.
- 2023 Invited moderator, Roundtable on Climate Issues, *Philanthropy Innovation Summit*, Center on Philanthropy and Civil Society, Stanford, CA. 1 March.
- 2022 Invited policy panel moderator and event facilitator. *Trans-Pacific Sustainability Dialogue*, Seoul, South Korea. 27-28 October.
- 2021 Invited keynote speaker. *Building Capacity for Change: Collective Action for Environmental Solutions*. Asia-Pacific Forum on Environmental Education and Sustainability, Taipei, Taiwan / Washington, DC. 30 November.
- 2021 Invited keynote speaker. *Actionable Hope in a Time of Planetary Change*. Contemplation by Design Summit, Stanford, CA. 1 November.
- 2021 Invited speaker. *eeWORKS: Demonstrating the Power of Environmental Education*. North American Association for Environmental Education eePRO Leadership Series, Online. 7 July.
- 2021 Invited speaker. *The Evidence Base in Environmental Education*. Environmental Education Guidance for Thriving Schools: Using Outdoor and

- Environmental Learning. North American Association for Environmental Education, National Affiliate Series, Online. 30 September.
- 2021 Invited speaker. *Perfect Storm: Climate Change in Asia*. Discussant and co-presenter with United Nations Secretary General Emeritus Ban Ki-Moon. Walter H. Shorenstein Asia-Pacific Research Center, Online. 28 September.
- 2021 Invited keynote speaker. *The Transformative Power of Connecting Humans with the Natural World*. Big Bang Gala Event 2020, California Academy of Sciences, San Francisco, CA. 23 April.
- 2019 Invited keynote panel speaker. *Inspiring the Next Generation*. 2019 CE3 (Clean Energy Education and Empowerment) Symposium, Texas A&M University, College Station, TX. 14 November.
- 2019 Invited keynote speaker. *What's the Current Research in Environmental Education (and Why Should You Care)?* Kansas Association for Environmental Education, Online. 1 November.
- 2019 Invited keynote speaker. *Trends in Environmental Education*. SCA Alumni Unconference, Student Conservation Association, Online. 26 September.
- 2019 Invited keynote speaker. *The Research-Practice Implementation Space: Opportunities Abound*. North American Association for Environmental Education, Research Symposium, Louisville, KY. 16 October.
- 2019 Invited speaker. *Behavior Change and Climate Change*. Global Environmental Education Partnership, Louisville, KY. 14 October.
- 2019 Speaker. *Measuring What Matters: Sense of Place and Social-Emotional Learning in Residential Environmental Education Settings*. NatureBridge National Advisory Board Meeting, San Francisco, CA.
- 2018 Invited speaker. *Environmental Literacy: Pathways, Progressions, and Dosage*. Pisces Foundation Board Meeting, San Francisco, CA. 21 November.
- 2018 Keynote moderator. *Stories from Research: Finding Inspiration in Community Connections*. North American Association for Environmental Education Annual Research Symposium, Spokane, WA. 10 October.
- 2017 Keynote speaker. *Sustaining Change: Behavioral Science for Conservation*. WWF Fuller Symposium: The Nature of Change: The science of Influencing Behavior, Washington, DC. 4 December.
- 2017 Invited plenary keynote. *Connecting Research and Practice in Environmental Education: Recognizing and Supporting Boundary Work*. World Environmental Education Congress Research Symposium, Vancouver. 11 September.
- 2017 Invited lecturer. *Environmental Behavior, Learning, and Place-Based Connections*. Osher Fellow Lecture, Exploratorium, San Francisco, CA. 12 July.
- 2017 Invited lecturer. *Environmental Education and Socioemotional Learning: Means to an End, or Ends to a Mean?* Monday Colloquium Series, School of Education, University of California, Berkeley, CA. 24 April.

- 2017 Invited lecturer. *Talking Sustainability: The Role of Place and Place-Based Connections in our Shifting Environmental Landscape* (via videoconference). Sustainability Education Research Institute Seminar Series, University of Saskatchewan, Saskatoon, Canada. 13 April.
- 2017 Invited speaker. *What Does Research Tell Us about Environmental Learning?* Blue Sky Funders Forum, Chesapeake Bay Funders Network, and Environmental Defense Fund, Washington, DC. 2 March.
- 2016 Invited lecturer. *Connecting for Change: Everyday Life Settings for Environmental Learning and Stewardship*. Wisconsin Ideas in Education Series, Co-Sponsored by the College of Education & the Nelson Institute for Environmental Studies, University of Wisconsin, Madison, WI. 27 April.
- 2015 Invited lecturer. *Yosemite to Pocket Parks: Engaging Individuals with Nature Through Place-Based Connections and Daily-Life Practices*. William Main Distinguished Visitors Series, University of California, Berkeley, CA. 28 Oct.
- 2015 Keynote speaker. *The Importance of the Incidental: Environmental Learning in Everyday Life*. With Prof. J.E. Heimlich. North American Association for Environmental Education Annual Conference, Research Symposium, San Diego, CA. 14 October.
- 2015 Invited speaker. *Environmental Education: Outcomes and Impacts* (via videoconference). The W. Garfield Weston Foundation, Toronto, Ontario, Canada. 15 April.
- 2015 Invited speaker. *The Relationship Between Environmental Learning and Environmental Behavior: Networks, Collaboratives, and Individuals Engaged for Action*. Environmental Education Funders Collaborative. 23 March.
- 2015 Invited lecturer. *Environmental Learning and Behavior in Everyday Life: A Mixed-Methods study in the San Francisco Bay Area*. Yale University School of Forestry and Environmental Studies, New Haven, CT. 14 January.
- 2014 Invited speaker. *Environmental Education and Community Stewardship Outcomes: Evidence, Metrics, Questions*. National Fish and Wildlife Foundation, Washington, DC. 9 December.
- 2014 Keynote speaker. *Peering Inside the "Black Box:" Approaches and Tools for Evaluating Place-Based Education Experiences*. Power of Place Summit, Jackson, WY. 7 July.
- 2014 Invited panelist. *No Child Left Inside: Environmental Learning Settings that Motivate Connection and Engagement*. Commonwealth Club of California, San Francisco, CA. 19 May.
- 2014 Guest lecturer. *Two Cases of Youth Participatory Action Research: Community Mapping and an Arts Center Project with East Palo Alto Youth*. School of Education and Community Development Program, University of California, Davis, CA. 26 February.
- 2013 Invited panelist. *How Can We Best Accelerate Support for the Environmental Education Field?* Blue Sky Funders Forum, Baltimore, MD. 11 October.

- 2013 Panelist. *Environmental Education: A Critical Strategy for Strengthening Communities and Improving the Environment*. Environmental Grantmakers Association Retreat, New Orleans, LA. 1 October.
- 2013 Panelist. *Environmental Education as a Catalyst for Environmental Engagement and Action*. Stanford's Jasper Ridge and Global Environmental Challenges, Jasper Ridge Biological Preserve's 40th Anniversary Celebration, Woodside, CA. 9 May.
- 2013 Panelist. *Science and Environmental Educators' Symposium*. Monash University and Melbourne Zoo, Melbourne, Victoria, Australia. 19 February.
- 2013 Panelist. *What Will We Need of Science Education in 2020?* Monash University and Australian Science Education Association, Melbourne, Victoria, Australia. 18 February.
- 2012 Panelist. *History of and Future Visions for the Environmental Education Movement*. Blue Sky Funders Forum, Oakland, CA. 12 October.
- 2012 Speaker. *Research on Synthesis Education: What do we know about Teaching Socio-Environmental Synthesis?* Socio-Environmental Synthesis Education: Goals, Resources and Tools Workshop, National Science Foundation (NSF) National Socio-Environmental Synthesis Center, Annapolis, MD. 4–5 June.
- 2012 Invited speaker. *Environmental Education Outcomes: EE's Impact in Formal Settings*. EE Funders Collaborative, Los Altos, CA. 4 May.

SELECTED ACADEMIC CONFERENCE PRESENTATIONS SINCE 2008

Conferences/Symposia Organizer

- 2023 Co-Chair, Adaptation and Innovation for Sustainable Societies, Stanford Doerr School of Sustainability and Graduate School of Business, 19-21 May.
- 2016–2018 Research Symposium, North American Association for Environmental Education: Chair (2017); Co-Chair (2016/2018), October.
- 2017 Co-Chair, Research and Evaluation Strand, World Environmental Education Congress, Vancouver, British Columbia, September.

Papers and Workshops Presented [no longer updated after 2020 due to extensive volume of professional conference presentations; full list available upon request]

- 2020 **Ardoin, N.M.**, Brotons, L., Jorgensen, M., Fitzsimons, J., and Foster, D. (Moderator). *Connecting Universities with Land Conservation Organizations*. 2020 Global Congress: International Land Conservation Network and European Land Conservation Network, Online. 24 April.
- 2019 Chawla, L., Salazar, G., **Ardoin, N.M.**, Jordan, C., and Monroe, M.C. (Moderator). *Research on Assessing Connection to Nature: Developing a*

- Guidebook for Practice*. North American Association for Environmental Education Annual Conference, Lexington, KY. 15 October.
- 2019 Monroe, M.C. (Moderator), **Ardoin, N.M.**, Lee, A.S., Watkins, L., Jordan, C. *Assessing Connection to Nature: Developing a Guidebook for Practice*. North American Association for Environmental Education Annual Conference, Lexington, KY. 16 October.
- 2018 Phukan, I., Reid, A., Clark, C., and **Ardoin, N.M.** *#eeHACK: Designing and Participating in Collective Experiments to Address EE Challenges*. North American Association for Environmental Education Annual Research Symposium, Spokane, WA. 10 October.
- 2018 Monroe, M.C., **Ardoin, N.M.**, and Watkins, L. *Assessing Connection to Nature*. North American Association for Environmental Education Annual Conference, Spokane, WA. 11 October.
- 2018 **Ardoin, N.M.** and Kannan, A. *Connecting Environmental Literacy Research and Practice*. North American Association for Environmental Education Annual Conference, Spokane, WA, 11 October.
- 2018 O'Connor, K., Phukan, I., and **Ardoin, N.M.** *Examining the Role of Social and Emotional Learning in Residential EE*. North American Association for Environmental Education Annual Research Symposium, Spokane, WA. 10 October.
- 2018 **Ardoin, N.M.**, Monroe, M., Jordan, C., Kunkle, K., Watkins, L., and Lee, A. *Connection to Nature: Approaches, Measures, and Collaborative Opportunities*. North American Association for Environmental Education Annual Research Symposium, Spokane, WA. 10 October.
- 2018 Phukan, I., Reid, A., Clark, C., and **Ardoin, N.M.** *#eeHACK: Designing and Participating in Collective Experiments to Address EE Challenges*. North American Association for Environmental Education Annual Research Symposium, Spokane, WA. 10 October.
- 2018 Phukan, I. and **Ardoin, N.M.** *Coastal Fog-Mediated Interactions Between Climate Change, Upwelling, and Coast Redwood Resilience*. Poster at North American Association for Environmental Education Annual Research Symposium, Spokane, WA. 9 October.
- 2018 **Ardoin, N.M.** and Niemiec, R. *Using Socio-Ecological Research in the Design and Evaluation of Community Engagement Programs for Conservation*. Hawaii Conservation Conference, Waikiki, Oahu, HI. 26 July.
- 2017 Braus, J. and **Ardoin, N.M.** *Demonstrating the Impact of Environmental Education Through Empirical Research*. World Environmental Education Congress, Vancouver, British Columbia, Canada. 12 September.
- 2016 Reid, A. and **Ardoin, N.M.** *Research and Evaluation @eePRO*. North American Association for Environmental Education Annual Research Symposium, Madison, WI. 19 October.

- 2016 Reid, A. and **Ardoin, N.M.** *Future Scenarios that Support Environmental Education Research*. North American Association for Environmental Education Annual Research Symposium, Madison, WI. 19 October.
- 2016 Phukan, I., Zummo, L., and **Ardoin, N.M.** *Points of Connection: Language Use in Environmental Education*. North American Association for Environmental Education Annual Research Symposium, Madison, WI. 19 October.
- 2016 **Ardoin, N.M.**, Kermish-Allen, R., and McKenzie, M. *Collaborative Tools and Building Blocks: Working Toward Transformation*. North American Association for Environmental Education Annual Research Symposium, Madison, WI. 18 October.
- 2016 Phukan, I., Zummo, L., and **Ardoin, N.M.** *The Role of Social Dynamics in Immersive EE Experiences*. Poster at North American Association for Environmental Education Annual Research Symposium, Madison, WI. 18 October.
- 2016 Phukan, I., **Ardoin, N.M.**, and Zummo, L. *Measuring Learning on the Go: Piloting an Art-Based Embedded Assessment*. North American Association for Environmental Education Annual Research Symposium, Madison. 18 October.
- 2016 Gould, R. and **Ardoin, N.M.** *Links Between Environmental Learning and Behavior in Everyday Life*. Poster at NAAEE Annual Research Symposium, Madison, WI. 18 October.
- 2016 Farber, A. and **Ardoin, N.M.** *Assessing Environmental Literacy in the Galápagos Islands School System*. Poster at North American Association for Environmental Education Annual Research Symposium, Madison, WI. 18 October.
- 2016 **Ardoin, N.M.** *ChangeScale: Collective Impact for Environmental Literacy in the San Francisco Bay Area*. With panelists: Niepold, F., Leadley, T., Chambers, L., and McDougall, C., Panel: *Enabling Effective Climate Literacy Through Collective Impact*. American Association for the Advancement of Science (AAAS), Washington, DC. 13 February.
- 2015 Russell, C., **Ardoin, N.M.**, Clark, C., Koushik, J., Lloro-Bidart, T., McKenzie, M., Scully, A., and Stapleton, S. *Navigating Gender in EE Research*. North American Association for Environmental Education Annual Research Symposium, San Diego, CA. 15 October.
- 2015 Gould, R.K., **Ardoin, N.M.**, and Sponarski, C. *The Nexus of Environmental Learning and Behavior: A Bay Area Survey*. North American Association for Environmental Education Annual Research Symposium, San Diego, CA. 15 October.
- 2015 Gould, R.K., **Ardoin, N.M.**, and Wojcik, D. *Beyond the Core: Expanding the Edges of the Environmental Learning Landscape*. North American Association for Environmental Education Annual Research Symposium, San Diego, CA. 15 October.

- 2015 **Ardoin, N.M.**, Gould, R.K., Thomsen, J., and Wyman Roth, N. *Environmental Learning, Stewardship, and Sustainability at the (Eco)Regional Scale: A San Francisco Bay Area Study*. World Environmental Education Congress, Gothenburg, Sweden. 1 July.
- 2015 Reid, A., **Ardoin, N.M.**, Lotz-Sisitka, H., McKenzie, M., Ohman, J., Laessoe, J., and Wals, A. *The Contribution of International Research Collectives to Environmental and Sustainability Education Theory and Practice*. World Environmental Education Congress, Gothenburg, Sweden. 29 June.
- 2015 **Ardoin, N.M.** *NAAEE's Perspective on North American Universities and Sustainability Education*. Global Universities Partnership on Environment and Sustainability, UNEP, World Environmental Education Congress, Gothenburg, Sweden. 28 June.
- 2014 Morris, J., **Ardoin, N.M.**, and Taylor, K. *EE Collaboration Through a Collective Impact Lens: A San Francisco Bay Area Case Study*. North American Association for Environmental Education Annual Conference, Ottawa, Ontario, Canada. 9 October.
- 2014 Clark, C., **Ardoin, N.M.**, Wojcik, D., Roth, N., and Gould, R.K. *Best Practices for Organizing Environmental Team Research Projects*. North American Association for Environmental Education Annual Research Symposium, Ottawa, Ontario, Canada. 8 October.
- 2014 Gould, R.K. and **Ardoin, N.M.** *Environmental Learning in Everyday Life: Results from Community Listening Sessions*. North American Association for Environmental Education Annual Research Symposium, Ottawa, Ontario, Canada. 7 October.
- 2014 Gould, R.K. and **Ardoin, N.M.** *Environmental Learning and Community Need: Ideas from Multiple Case-Study Sites*. North American Association for Environmental Education Annual Research Symposium, Ottawa, Ontario, Canada. 7 October.
- 2013 **Ardoin, N.M.**, Hopkins, M., and Stern, M. *Evaluating Factors Contributing to Conservation and Education Outcomes of Toyota TogetherGreen*. North American Association for Environmental Education Annual Conference, Baltimore, MD. 11 October.
- 2013 **Ardoin, N.M.**, Wojcik, D., and Khalil, K. *Understanding the Organizational Landscape of Environmental Learning Opportunities*. North American Association for Environmental Education Annual Research Symposium, Baltimore, MD. 9 October.
- 2013 **Ardoin, N.M.**, Schuh, J., and Gould, R.K. *Environmental Learning and Behavior in Everyday Life: Surveys and Community Listening Sessions*. North American Association for Environmental Education Annual Research Symposium, Baltimore, MD. 9 October.

- 2013 Hart, P., Dillon, J., and **Ardoin, N.M.** *Publishing in Peer-Reviewed Journals: A Discussion with Journal Editors*. North American Association for Environmental Education Annual Research Symposium, Baltimore, MD. 9 October.
- 2013 **Ardoin, N.M.**, O'Connor, K., and DiGiano, M. *Measuring "Slippery" Concepts: Three New Tools for Evaluating Residential Environmental Education*. North American Association for Environmental Education Annual Research Symposium, Baltimore, MD. 9 October.
- 2013 Heimlich, J., **Ardoin, N.M.**, Clark, C., Braus, J., and Ballard, H. *The Landscape of the Field of Environmental Education: A Conceptual Framework*. North American Association for Environmental Education Annual Research Symposium, Baltimore, MD. 9 October.
- 2013 Powell, R., Stern, M., and **Ardoin, N.M.** *A Systematic Investigation of the Factors that Contribute to Successful Conservation Outcomes*. International Symposium on Society and Resource Management, Estes Park, CO. 3–5 June.
- 2012 Gould, R.K., **Ardoin, N.M.**, and Daily, G. *The Forest Has a Story: Cultural Ecosystem Services in Kona, Hawai'i*. American Anthropological Association, San Francisco, CA. 18 November.
- 2012 O'Connor, K. and **Ardoin, N.M.** *Innovative Metrics for Measuring Residential Environmental Education Outcomes*. American Evaluation Association, Minneapolis, MN. 24 October.
- 2012 **Ardoin, N.M.** and Wojcik, D. *Expanding EE to Investigate Environmental Learning in Our Everyday Lives*. North American Association for Environmental Education Annual Research Symposium, Oakland, CA. 10 October.
- 2012 Wojcik, D., Clark, C., and **Ardoin, N.M.** *Are We Insular? Investigating Co-Publication Networks of EE Researchers*. North American Association for Environmental Education Annual Research Symposium, Oakland, CA. 10 October.
- 2012 O'Connor, K., Biedenweg, K., Ardoin, N.M., and DiGiano, M. *Residential Environmental Education: Innovations in Measuring Outcomes*. North American Association for Environmental Education Annual Research Symposium, Oakland, CA. 10 October.
- 2012 Gould, R.K. and **Ardoin, N.M.** *Combining Cultural and Environmental Education for Middle Schoolers in Hawai'i*. Poster at North American Association for Environmental Education Annual Research Symposium, Oakland, CA. 9 October.
- 2012 Gould, R.K., Klain, S., Satterfield, T., Chan, K., and **Ardoin, N.M.** *Piloting an Interview Protocol for Assessing Cultural Ecosystem Services in Two Sites*. Ecological Society of America, Portland, OR. 9 August.
- 2012 Wheaton, M., **Ardoin, N.M.**, Durham, W., and Hunt, C. (D. Wojcik, presenter). *Nature-Based Tourism as a Facilitator of Pro-Environmental Behavior*. International Symposium for Society and Resource Management, Edmonton, Alberta, Canada. 20 June.

- 2012 Hofstedt, M., **Ardoin, N.M.**, and Castrechini, S. *Youth–Community–University Partnerships and Sense of Place: Two Case Studies of Youth Participatory Action Research*. American Educational Research Association, Vancouver, British Columbia, Canada. 13 April.
- 2011 Boudet, H., Robinson, T., **Ardoin, N.M.**, Flora, J., and Armel, C. *Changing Behavior to Combat Climate Change: The Girl Scouts Girls Learning Environment and Energy (GLEE) Program*. Behavior, Energy and Climate Change Conference, Washington, DC. 1 December.
- 2011 **Ardoin, N.M.**, Khalil, K., and O’Connor, K. *Girls Learning Environment and Energy (GLEE): An Environmental Curriculum Designed Using Principles of Behavioral Science*. North American Association for Environmental Education Annual Conference, Raleigh, NC. 13 October.
- 2011 Boudet, H., Robinson, T., **Ardoin, N.M.**, Flora, J., and Armel, C. *Changing Behavior to Combat Climate Change: The Girl Scouts Girls Learning Environment and Energy (GLEE) Program*. American Collegiate Schools of Planning Conference, Salt Lake City, UT. 13 October.
- 2011 **Ardoin, N.M.**, Powell, R., and Stern, M. *Assessing Audubon’s TogetherGreen: What Leads to Successful Conservation Grants?* North American Association for Environmental Education Annual Research Symposium, Raleigh, NC. 12 October.
- 2011 **Ardoin, N.M.**, Clark, C., and Kelsey, E. *Research in Environmental Education: Current Trends and Future Opportunities*. North American Association for Environmental Education Annual Research Symposium, Raleigh, NC. 12 October.
- 2011 **Ardoin, N.M.**, Boudet, H., Khalil, K., and O’Connor, K. *Girls Learning Environment and Energy: Randomized Controlled-Trial Testing of Energy Efficiency Curriculum*. North American Association for Environmental Education Annual Research Symposium, Raleigh, NC. 11 October.
- 2011 **Ardoin, N.M.**, Clark, C., and Kelsey, E. *Indicators for Environmental Education Research: 2015 and Beyond*. Eleventh Invitational Seminar on Environmental Education Research, Queenscliffe, Australia. 16 July.
- 2011 **Ardoin, N.M.** and Stedman, R. *Sense of Place: Questions of Mobility, Power, and Place in Environmental Education*. International Symposium on Society and Resource Management, Madison, WI. 4–8 June.
- 2011 Gould, R.K. and **Ardoin, N.M.** *Reforestation and Cultural Ecosystem Services in Hawai’i*. International Symposium on Society and Resource Management, Madison, WI. 4–8 June.
- 2010 **Ardoin, N.M.** Discussant. *The Social Ecologies of Learning in Environmental Education*. American Educational Research Association Annual Conference, Denver, CO. 1 May.

- 2009 **Ardoin, N.M.** *Philanthropic Support of Environmental Education*. North American Association for Environmental Education Annual Conference, Portland, OR. 8–11 October.
- 2009 Stern, M., **Ardoin, N.M.**, and Powell, R. *Lessons from NorthBay: EE for the Hip-Hop Generation*. North American Association for Environmental Education Annual Conference, Portland, OR. 8–11 October.
- 2009 Stern, M., **Ardoin, N.M.**, and Powell, R. *Evaluating NorthBay’s Multi-Media Approach to Intertwining EE with Character Development*. North American Association for Environmental Education Annual Research Symposium, Portland, OR. 6–7 October.
- 2009 **Ardoin, N.M.** *Sense of Place and Environmental Behavior at an Ecoregional Scale*. North American Association for Environmental Education Annual Research Symposium, Portland, OR. 6–7 October.
- 2009 **Ardoin, N.M.** *Environmental Education: A Strategy for the Future*. Environmental Grantmakers Association Annual Retreat, Anchorage, AK. 29 September.
- 2009 **Ardoin, N.M.** *Being an Interdisciplinary Environmental Education Researcher*. American Educational Research Association, San Diego, CA. 15 April.

SELECTED STANFORD UNIVERSITY CAMPUS TALKS [no longer updated after 2021 due to extensive volume of talks; full list available upon request]

- 2021 Invited keynote. *Actionable Hope in a Time of Planetary Change*. Contemplation by Design Summit. 1 November.
- 2021 Circle Night keynote (Co-presenter: PhD student Veronica Lin). *Environmental Learning in Everyday Life: Redwood Forests as a Catalyst for Climate Literacy and Action*. Graduate School of Education. 4 March.
- 2019 Featured speaker, along with Stanford President Marc Tessier-Lavigne. *Accelerating Climate Solutions for a World that Works: Enacting the Purposeful University*. School of Earth, Energy, and Environmental Sciences, Frances C. Arrillaga Alumni Center. 6 October.
- 2017 Panelist. Pre-Release Film Screening: *An Inconvenient Sequel: Truth to Power*. Graduate School of Education, MediaX, Stanford Woods Institute for the Environment, Bishop Auditorium. 19 June.
- 2017 Panelist. Film Screening: *Tomorrow*. Stanford Woods Institute for the Environment, Department of Biology, and Jasper Ridge Biological Station, Students for a Sustainable Stanford, Cubberley Auditorium. 17 April.
- 2017 Panelist. *Climate Change and the Environment*. Making Sense of the Trump Presidency, Stanford Continuing Studies, Cemex Auditorium. 12 March.
- 2016 Moderator. *Bill Nye the Science Guy*. Graduate School of Education Cubberley Lecture. 5 May.

- 2015 Featured speaker. *Environmental Behavior and Environmental Learning: Researching Individuals and Communities Working Toward Sustainability*. Woods Environmental Forum, Stanford Woods Institute for the Environment. 5 February.
- 2014 Featured speaker. *Community-Engaged Research, Youth Participatory Action Research, and Community–University Partnerships: Better Research—or Cans of Worms?* Stanford Center for Ethics in Society and the Stanford Graduate Summer Institute. 11 September.
- 2014 Featured speaker. *Environmental Learning and Behavior: Networks, Place Connections, and Stewardship*. New Faculty Seminar Series, Energy and Environment Affiliates Program. 29 April.
- 2014 Featured speaker. *Facilitating Pro-Environmental Behavior: Leveraging Nature-Based Tourism Experiences into Everyday Stewardship*. Stanford Woods Institute for the Environment Faculty Retreat. 25 April.
- 2013 Featured speaker. *Peering into the “Black Box:” Exploring Intermediary Outcomes in Environmental Field Science Programs*. Graduate School of Education Faculty Seminar. 21 May.
- 2012 Panelist. *Nature-Based Tourism and Stewardship Behaviors*. Celebrating Sustainability at Stanford. 7 May.
- 2012 Featured speaker. *Environmental Learning and Behavior: A Case Study of Nature-Based Tourism*. Stanford Woods Institute for the Environment Faculty Retreat. 14 April.
- 2010 Featured speaker. *Community-Based Natural Resource Management, Sense of Place, and Environmental Education*. Stanford Alumni Association, Fall Reunion. 22 October.
- 2010 Featured speaker. *Environmental Philanthropy, Green Buildings, and Behavior: Current Projects and Future Directions*. Chocolate Talk Series, Stanford Woods Institute for the Environment. 6 May.
- 2010 Featured speaker. *Sense of Place and Behavior: Educating and Communicating for Environmental Change*. Jasper Ridge Speaker Series. 12 January.
- 2009 Panelist. *Environmental Education Research: A Brief Overview*. Graduate School of Education Orientation. 16 September.
- 2008 Featured speaker. *Sense of Place and Environmental Behavior at an Ecoregional Scale*. Environmental Forum, Stanford Woods Institute for the Environment. 4 December.

TEACHING EXPERIENCE

Stanford University, Stanford, CA, 2010 to present

Ongoing Courses and Regular Offerings

Emmett Interdisciplinary Program in Environment and Resources: Designing Environmental Research; Research Methods for Environmental Problem Solving; Exploring the Theoretical Underpinnings of Environmental Behavior; Open Space Management Practicum; Environmental Behavior and Learning; Sense of Place Seminar; Capstone Project Seminar in Environment and Resources

Graduate School of Education (cross-listed in Earth Systems in the School of Earth, Energy, and Environmental Sciences): Moral, Civic, and Environmental Education (Co-Instructor in 2020, 2021: Professor William Damon); Theory and Practice of Environmental Education; Science and Environmental Education in Informal Settings (Course Co-Developer: Jonathan Osborne); Qualitative Interviewing

Past Courses and/or Occasional Offerings

Stanford Woods Institute for the Environment: Interdisciplinary Problem Solving: The Case of Stormwater Runoff in Monterey Bay (graduate); Interdisciplinary Problem Solving: The Case of Mountain Lions at Jasper Ridge Biological Preserve (graduate and postdoctoral): Autumn 2010

Sophomore College: Evolution, Conservation, and Education in Galápagos (Co-Instructor: Prof. William Durham, *emeritus*, Human Biology and Anthropology): Autumn 2019; Down the Colorado River: Water in the American West as Seen from a Raft in the Grand Canyon (Co-Instructors: Profs. David Kennedy, History; Barton “Buzz” Thompson, Law; David Freyberg, Civil and Environmental Engineering): Autumn 2011

Yale University, New Haven, CT, 2001 to 2005

School of the Environment: Teaching Fellow in graduate-level courses including Issues and Approaches in Environmental Education (Instructor: Prof. Stephen Kellert): 2002–2005; Sustainable Development and Conservation (Instructor: Prof. Carol Carpenter): 2002

RELATED PROFESSIONAL EXPERIENCE

Community Learning & Exhibition Development Specialist, World Wildlife Fund, Washington, DC: 1998–2001

Environmental Educator & Natural History Interpreter, Discovery Creek Children’s Museum of Washington, Washington, DC: 1995–1996

Interpretive Ranger, SCA & National Park Service, Grand Canyon National Park, AZ: 1994

SERVICE TO THE PROFESSION

Editorial and Journal Service

Associate Editor, *Environmental Education Research*: 2011–present; Consulting Editor: 2008–2011

Consulting Editor, *The Journal of Environmental Education*: 2008–present

Consulting Editor, *Children, Youth, and Environments*: 2012–present

Journal Manuscript Reviewer, *Climatic Change*; *Conservation Biology*; *Conservation and Society*; *Ecosystems and People*; *Environment and Behavior*; *Geosciences*; *International Journal of Science Education*; *Journal of Environmental Psychology*; *People and Nature*; *PLoS ONE*: 2005–present

Board Memberships

Trustee, California Academy of Sciences: 2022–present

Advisory Council Member, North American Association for Environmental Education: 2015–present; Secretary: 2006–2007; At-Large Board Member: 2008–2011; Chair of Personnel Committee: 2005–2011

Education Advisory Council Chair, NatureBridge: 2011–present (EAC Member: 2008–2010)

Trustee, George B. Storer Foundation: 2016–2022

Founding Steering Committee Member and Research Advisor, ChangeScale: 2011–2021

Member, Program Committee of the Board of Directors, Monterey Bay Aquarium: 2011–2018

Advisory Council Member, Brainerd Foundation: 2013–2016

Board Member, Connecticut Outdoor and Environmental Education Association: 2001–2003

Selected Professional Service to the Field

Advisory Councils and Working Groups

Education and Equity in a Changing Climate, Spencer Foundation, 2023

Founding Member, Science of Actionable Knowledge (SOAK) Working Group, 2017–present

Environmental Science Expert Working Group, Programme for International Student Assessment (PISA), OECD, 2020–present

Member, Scientific Advisory Board, Children and Nature Network: 2016–present

Education Advisory Council Member, Teton Science Schools: 2015–present

Advisory Board Member, VidaVerde Nature Education: 2014–present

Participant, Working Group, *Environmental Public Art*, National Socio-Environmental Synthesis Center (SESYNC), Annapolis, MD: 2020–2021

Advisory Board Member, *Our Forests: Designing for Science Learning in Schools by Leveraging Participation and the Power of Place Through Community and Citizen Science*, UC-Davis, Sierra Streams Institute NSF Grant: 2019–2021

Member, Education Operating Committee, Project Learning Tree, American Forests Foundation: 2015–2020

Advisory Board Member, *BEETLES (Formerly: National Residential Outdoor Science Program Project): Sharing Effective Practices*, Lawrence Hall of Science, University of California, Berkeley: 2012–2020

Participant, Working Group, *Advancing the Science of Knowledge Use: Mechanisms, Applications, and Gaps*, National Socio-Environmental Synthesis Center (SESYNC), Annapolis, MD: 2017–2019

Member, National Advisory Panel on Environmental Literacy, Chesapeake Bay Foundation and North American Association for Environmental Education: 2016–2019

Member, Nonprofit Advisory Group: 2015–present; Founding Member and Advisory Council Member, Blue Sky Funders Forum: 2012–2014

Advisor, *Report on Environmental Literacy in the United States: An Agenda for Leadership in the 21st Century*, U.S. Forest Service and the National Environmental Education Foundation: 2012

Invited Participant, *Summit on Assessment of Informal and After-School Science Learning*, National Research Council and National Academies of Science, Irvine, CA: June 10–12, 2012

Research Advisor, Walt Disney World's Corporate Citizenship Team's *Connecting Kids to Nature* Research and Evaluation Initiative: 2011–2016

Nonprofit Representative to the Environmental Education Advisory Council of the U.S. Environmental Protection Agency: 2007–2010

Member, Society for Conservation Biology Education Committee: 2006–2014

Grant Proposal Reviews

Review Panelist, National Science Foundation (NSF), Discovery Research PreK-12 Program: 2019–present

Review Panelist, National Science Foundation (NSF) Anthropology/Archaeology Panel, Graduate Research Fellowship: 2016

Grant Proposal Reviewer, U.S. Environmental Protection Agency's Environmental Education Grants Program (National and Regional): 2001–2009

STANFORD UNIVERSITY SERVICE

Long-Range Planning and Sustainability Initiatives, 2018–present

Member, Coordinating Committee, New School Focused on Climate and Sustainability, Spring 2021 to September 2022; Co-Chair, Education and Curriculum Workstream: Summer 2021–September 2022

Member, Blueprint Advisory Committee, New Sustainability and Climate School: Fall 2020; Coordinating Committee (appointed by the Faculty Senate’s Committee on Committees): Fall and Winter 2020–21

Member, Sustainability Structure Design Team, Long-Range Planning for Sustainability Initiative: Winter 2020

Member, Vision Initiatives Design Teams: *First Year: Exploration and Shared Intellectual Experience and Sustainability*: 2018–2020

Member, Education Group, President’s Long-Range Planning Initiative: 2017–2018

Doerr School of Sustainability, 2022–present; School of Earth, Energy, & Environmental Sciences, 2009–2022 (Note: In 2022, the School of Earth, Energy, & Environmental Sciences transitioned to the Doerr School)

Member, Dean’s Executive Committee, Doerr School of Sustainability, 2022–2023

Member, Executive Committee: 2019–2023; Faculty Advisory Committee: 2010–2023, Emmett Interdisciplinary Program in Environment and Resources

Director of Graduate Studies, Emmett Interdisciplinary Program in Environment and Resources, 2019–2023

Strategic Planning Committee, Architectural Design Degree Program, Civil and Environmental Engineering, 2023–present

Chair, Admissions Committee, Emmett Interdisciplinary Program in Environment and Resources, School of Earth Sciences: 2016–2017; Committee Member: 2009–2012; 2014–2016

Member, Faculty Advisory Group, Sustainability Science and Practice/Change Leadership for Sustainability Master’s Program, School of Earth, Energy, and Environmental Sciences: 2016–present

Member, Committee of the Whole, Earth Systems Program, School of Earth, Energy and Environmental Sciences: 2009–present

Faculty Lead, Navigating Interdisciplinary Waters Project, Emmett Interdisciplinary Program in Environment and Resources (funding from the SCORE grant, Vice Provost for Graduate Education): 2009–2012

Woods Institute for the Environment, 2009–present

Faculty Chair, Young Environmental Scholars Conference for Graduate and Postdoctoral Scholars, Stanford Woods Institute for the Environment: 2008–2012; 2015–2018

Chair and Co-Chair, Environmental Venture Projects Grant Selection Committee, Stanford Woods Institute for the Environment: 2015–2017

Search Committee Member, Faculty Director, Stanford Woods Institute for the Environment: 2015–2016

Member, Faculty Advisory Board, Commercial Outfitting and the Wilderness Act Uncommon Dialogue, Stanford Woods Institute for the Environment: February 2012

Member, Planning Committee, Follow-up to Stanford’s Environment and Sustainability Initiative, School of Earth Sciences and Stanford Woods Institute for the Environment: 2011–2012

Search Committee, Stanford Postdoctoral Scholar in Natural and Cultural Heritage, Archeology Center and Stanford Woods Institute for the Environment: 2010–2011

Chair, Education Committee, Stanford Woods Institute for the Environment: 2008–2013

Graduate School of Education, 2009–2022

Reviewer, Dissertation Support Grants, Graduate School of Education: 2021–2022

Chair, Tenure and Promotion Committee for Associate Professor, Graduate School of Education: 2019–2021

Alternate, Committee on Education Policy, Graduate School of Education: 2019–20

Search Committee Member, Science Education, Graduate School of Education: 2018–2019

Member, Faculty Advisory Committee, John Gardner Center for Youth and their Communities: 2017–2019

Member, Dean’s Faculty Advisory Committee, Graduate School of Education: 2014–2018

Ecuador’s Educational Policy 2006–2012 and the Development of a New Science Curriculum: Potential Impacts on Galapagos; Host of Official Ecuadorian Ambassadorial Delegation at Stanford: May 2012

University-Wide Service

Member, Faculty Women’s Forum Steering Committee, 2022–present

Advisor, Ethics in Society Advisory Group, Center on the Advanced Study in Behavioral Sciences, 2022–present

Member, First-Year Experience Review Committee, Vice Provost for Undergraduate Education, 2022–present

Member, Scope 3 Emissions Advisory Group, 2021–present

Member, Vice Provost on Graduate Education (VPGE) Advisory Committee: 2020–present

Faculty Representative to National Advisory Board, Haas Center for Public Service: Fall 2020–present; Member, Faculty Advisory Committee, Haas Center for Public Service: 2015–present; Search Committee Member, Haas Center Executive Director, 2022–23; Haas Center Faculty Director, 2021

Member, Director’s Council, d.school; Member, Faculty Advisory Council, d.school: 2018–present; Co-Lead, track in Climate Design for Design Thinking Interdisciplinary Degree Program, 2022–present

Member, IRB 2 Panel: Administrative Panel on Human Subjects in Nonmedical Research: 2015–present

Member, Provost’s Advisory Committee on Postdoctoral Affairs: 2014–present

Member, Jasper Ridge Biological Preserve Advisory Committee: 2009–present

Member, Faculty Advisory Committee and Affiliated Faculty, Stanford Center on Philanthropy and Civil Society: 2010–2016

Review Committee, Philanthropy and Civil Society Fellowships, Stanford Center on Philanthropy and Civil Society: 2010–2013

STANFORD UNIVERSITY GRADUATE STUDENT AND POSTDOCTORAL SUPERVISION

Current Ph.D. Advisees, Program, and Research Topics (Alphabetical Order)

Sarah Fendrich, Emmett Interdisciplinary Program in Environment and Resources (Co-advisor: Gabrielle Wong-Parodi, Earth System Science)

Lily Colburn, Emmett Interdisciplinary Program in Environment and Resources (Co-advisor: Gretchen Daily, Biology)

Archana Kannan, Science Education, Graduate School of Education, *Systematic and High-Quality Evaluation in Environmental and Informal Science Education Initiatives*

Ryan O’Connor, Emmett Interdisciplinary Program in Environment and Resources, *Ocean Social Ecology and Governance* (Co-advisor: Giulio DeLeo, Oceans, Doerr School of Sustainability)

Anais Voski, Emmett Interdisciplinary Program in Environment and Resources, *Psychoterratic Impacts of Climate Change and Other Environmental Issues* (Co-advisor: Gabrielle Wong-Parodi, Earth System Science)

Flora Jiaxuan Xu, Emmett Interdisciplinary Program in Environment and Resources (Co-advisor: Sarah Billington, Civil and Environmental Engineering)

Current Ph.D. Committee Member

Chance Carpenter, Graduate School of Education, *How Sovereign Data Resources Serve to Encourage and Produce Partnerships Centering Eco-Cultural Perpetuities and the Protectorate Populations that Steward This Knowledge*

Eeshan Chaturvedi, Emmett Interdisciplinary Program in Environment and Resources

Celina Scott-Buechler, Emmett Interdisciplinary Program in Environment and Resources, *Federal Climate Policy and Community Attitudes toward Carbon Dioxide Removal through Direct Air Capture*

Meghan Shea, Emmett Interdisciplinary Program in Environment and Resources, *Advancing the Use of Environmental DNA for Marine Biodiversity Monitoring*

Current Masters Co-Term Advisor

Emily Brieant, 2024, Sustainability Science and Practice

Kaitlyn Leahy, 2024, Sustainability Science and Practice

Alexandria Quan, 2024, Sustainability Science and Practice

Completed Undergraduate Thesis Advisees

Caroline Mitchell Beckman, 2021, Earth Systems Major; Honors Thesis in Earth Systems: *“We Can Do Better”*: How Land Trusts Engage with Environmental Justice.

Theo (Caroline) Bamberger, 2021, Earth Systems Major; Honors Thesis in Education: *Going Green with the Green and Gray: How Interpretive Rangers’ Perspectives Shape Climate Change Education in Yosemite National Park*

Emma Clark, 2021, Earth Systems Major; Honors Thesis in Education: *Explorers for Life: The Long-Term Benefits of a Community Outdoor Education Program*

Meghan Wilson, 2019, Earth Systems Major; Honors Thesis in Education: *Youth Programs and Urban Farming*

Kira Smiley, 2018, Earth Systems Major; Honors Thesis in Earth Systems: *Forming and Informing Perceptions of Controversial Environmental Topics: How do Local Landowners in the Finnish Archipelago Form and Inform their Perceptions of Wind Turbines, as well as the Impacts of those Turbines, on the White-Tailed Eagle?*

Amelia Farber, 2015, Anthropology Major; Goldman Environmental Honors Thesis Program: *Environmental Literacy in the Galapagos Islands: Understanding the Baseline*

Hannah Rich, 2013, Earth Systems Major; Honors Thesis in Education: *School Gardens in South Africa as a Site of Food Security, Education, Environmental Awareness, and Civic Engagement*; Winner, Firestone Award for Excellence in Undergraduate Research and Scholarship

Molly Oshun, 2011, Engineering Major; Honors Thesis in Engineering: *Collaborative Neighborhood Planning Processes: A Seattle Case Study*

Susan Rebellon, 2011, Earth Systems Major; Honors Thesis in Earth Systems: *Recycling Systems and Incentives in Amazonian Ecotourism*

Lauren Kubiak, 2011, Earth Systems Major; Honors Thesis in Earth Systems: *The Nantucket Model: Two Case Studies in Zero Waste Feasibility*

Completed Master's Advisees

Catherine Taylor Beck, 2022, Earth Systems, Focus: Environmental Communication

Fenella Scutt, 2022, Sustainability Science and Practice

Alexia (Lexi) Neilan, 2020, Earth Systems, Focus: Environmental Communication

Chris Escobedo, 2020, Earth Systems, Focus: Environmental Communication; Sustainability Science and Practice, 2022

Emily Dial, 2018, Earth Systems, Focus: Environmental Communication

Mary Boyer, 2016, Latin American Studies, Focus: Environmental Policy

Amelia Farber, 2016, Latin American Studies; Capstone Paper: *Formal Environmental Education for Students in the Galapagos Islands, Educator: Ecological Knowledge as a Partial Proxy for Environmental Literacy*

Samantha Selby, 2016, International Comparative Education and International Education Policy Analysis, Graduate School of Education; Capstone Paper: *Developing Sustainable Leadership and Environmental Education for Youth in Rural Costa Rica: A Mixed-Methods Analysis*

Annika Alexander-Ozinkas, 2013, Earth Systems, Focus: Environmental Communication

Lindley Mease, 2013, Earth Systems, Focus: Education and Community-Based Conservation

Robert Jackman, 2012, Public Policy, Focus: Environmental and Education Policy

Tessaly Jen, 2012, Earth Systems, Focus: Environmental Communication

Gretchen O'Henley, 2012, Earth Systems, Focus: Environmental Education and Communication

Gina Lappé, 2011, Earth Systems, Focus: Environmental Education and Communication

Completed Ph.D. Advisees

Brandon Reynante, 2023, Learning Sciences, Graduate School of Education, *Imagining Societal Transformations Toward Just and Sustainable Climate Futures: A Participatory Design Research Study of an Engineering Fiction Learning Experience* (Co-advisor: Roy Pea, Developmental and Psychological Sciences)

Anna Lee, 2022, Emmett Interdisciplinary Program in Environment and Resources, *Learning to Be a Human Alongside the More-than-Human World: Navigating Information, Morality, and Sense of Self in a Social and Environmental Context* (Co-advisor: Mark Algee-Hewitt, English and Digital Humanities)

Veronica Lin, 2022, Learning Sciences, Graduate School of Education, *Making Every Day Earth Day: Supporting Climate Change-Related Learning for Families in Everyday Life and Home Settings*

Francisca Santana, 2022, Emmett Interdisciplinary Program in Environment and Resources, *Together in Changing Places: The role of social and affective dimensions in conservation and adaptation behavior* (Co-advisor: Gabrielle Wong-Parodi, Earth System Science)

Shannon Switzer Swanson, 2022, Emmett Interdisciplinary Program in Environment and Resources, *Community Engagement and Participatory Resource Management in Coastal Areas* (Co-advisor: Larry Crowder, Biology)

Jose Urteaga, 2022, Emmett Interdisciplinary Program in Environment and Resources, *Examining Factors That Affect Community Participation in Sea Turtle Governance: Lessons Learned from Eastern Pacific Hawksbill (*Eretmochelys imbricata*) Conservation in El Salvador and Nicaragua* (Co-advisor: Larry Crowder, Biology)

Kristen Green, 2021, Emmett Interdisciplinary Program in Environment and Resources, *Climate Change Impacts on Access to Coastal Resources by Subsistence Harvesters in Arctic National Parks* (Co-advisor: Larry Crowder, Biology)

Juan Miguel Arias, 2020, Developmental and Psychological Sciences, Graduate School of Education, *Empathy and Care in Equity-Focused Informal Education: Instructor Conceptions and Student Impacts* (Co-advisor: Amado Padilla, Developmental and Psychological Sciences)

Lynne Zummo, 2020, Graduate School of Education, *Environmental Science Education in Formal and Informal Settings* (Co-advisor: Bryan Brown, Science Education)

Indira Phukan, 2019, Graduate School of Education, *Characterizing the Culture of Environmental Education Through Analyzing Rich Points in Field Settings*

Jenna Forsyth, 2019, Emmett Interdisciplinary Program in Environment and Resources, *Root Causes of Lead Exposure in Rural Bangladesh* (Co-advisor: Steve Luby, Medicine/Global Health)

Rebecca Niemiec, 2018, Emmett Interdisciplinary Program in Environment and Resources, *The Multi-Scalar Drivers of Resident Invasive Species Control Action on the Island of Hawai'i* (Co-advisor: Greg Asner, Global Climate)

Jennifer Wang, 2018, Emmett Interdisciplinary Program in Environment and Resources, *Putting Individuals in Context: Interdisciplinary and Behavioral Science Approaches for Understanding Environmental and Human Health Decisions* (Co-advisor: Dale Miller, Psychology and Graduate School of Business)

K.C. Busch, 2016, Graduate School of Education, *Why Words Matter: The Framing of Climate Change in School Science* (Co-advisor: Jonathan Osborne, Science Education)

Kathleen O'Connor, 2016, Graduate School of Education, *The Development of Environmental Identity among Participants in Residential Environmental Education Programs*

Nik Sawe, 2016, Emmett Interdisciplinary Program in Environment and Resources, *Environmental Decisionmaking and Risk Perception: Effects of Place-Related Connections and Implications for Philanthropy* (Co-advisor: Brian Knudsen, Psychology)

Matt Biggar, 2015, Graduate School of Education, *Everyday Life Behavior and the Environment: The role of Self-Interest, Conditions, and Learning in Personal Transportation Choices*

Rebecah Davis Busselle, 2015, Graduate School of Education, *Climate Change Education: Using the Goal Frame Theory to Encourage Climate-Friendly Behavior* (Co-advisor: Rich Shavelson, Science Education)

Daniel Reineman, 2015, Emmett Interdisciplinary Program in Environment and Resources, *The Human Dimensions of Wave Resource Management in California* (Co-advisor: Meg Caldwell, Law and Center for Ocean Solutions)

Amanda Cravens, 2014, Emmett Interdisciplinary Program in Environment and Resources, *Learning Design and Technology as Supports and Facilitators for Environmental Conflict Resolution* (Co-advisor: Janet Martinez, Law)

Kathayoon Khalil, 2014, Graduate School of Education, *Social Learning Systems in Zoo and Aquarium Education*

Heather Lukacs, 2014, Emmett Interdisciplinary Program in Environment and Resources, *Sustaining the Benefits of Stream Restoration by Watershed Groups in Appalachia* (Co-advisor: Len Ortolano, Civil and Environmental Engineering)

Marilyn Cornelius, 2013, Emmett Interdisciplinary Program in Environment and Resources, *Designing for Behavior Change: Using Behavior Theory to Reduce Energy Use* (Co-advisors: Stephen Schneider, Climate Science; Tom Robinson, Medicine)

Rachelle Gould, 2013, Emmett Interdisciplinary Program in Environment and Resources, *Reforestation and Cultural Ecosystem Services in Kona, Hawai'i* (Co-advisor: Gretchen Daily, Biology)

Noa Lincoln, 2013, Emmett Interdisciplinary Program in Environment and Resources, *The Ethno-Agroecology of the Kona Field System, Hawaii Island, Hawaii: Co-Evolution of Environment, Agricultural Practice, and Society* (Co-advisor: Peter Vitousek, Biology)

Completed Ph.D. Students, Committee Member

Emma Velterop, 2023, Earth System Science, *Prioritizing Housing Quality in Climate-Adaptation Policy in the San Francisco Bay Area*

Aditya Vishwanath, 2023, Graduate School of Education, *Using Virtual Reality for Argumentation on Topics of Climate Change*

Kelley Langhans, 2023, Department of Biology, *Rivers, Trees, and Birds: Justice in conservation for people and nature*

Ciara Wirth, 2022, Department of Anthropology, *Learning in the Forest: An Exploration of Waorani Education and Its Interaction with Formal State Schooling in the Ecuadorian Amazon*

Staci Lewis, 2019, Emmett Interdisciplinary Program in Environment and Resources, *Linking Sociopolitical Transformations to Environmental Change: A Mixed-Methods Approach to Assessing Adaptive Watershed Governance in the Republic of Palau*

Tanner Vea, 2018, Graduate School of Education, *Humans, Animals, and Environment: Understanding and Designing for the Learning of Ethical Convictions*

Julia Mason, 2018, Department of Biology, School of Humanities and Sciences, *Who Knows and Who Decides? Priorities, Perceptions, and Participation in Fisheries Management*

Aaron Strong, 2016, Emmett Interdisciplinary Program in Environment and Resources, *Barriers to Including Biogeochemical Data in Ecosystem-Based Management across Governance Scales in the Context of Managing Land-Ocean Coupled Human-Natural System Problems*

Lauren Oakes, 2015, Emmett Interdisciplinary Program in Environment and Resources, *Sustaining Forest Communities in a Changing Climate: Identifying Social and Ecological Responses to Yellow-Cedar Decline in Southeast Alaska's Coastal Rainforests*

Evan Szu, 2015, Graduate School of Education, *Science in Popular Television: Comparing Perspectives of Middle School Students, University Students, and Media Makers*

Nicola Ulibarri, 2015, Emmett Interdisciplinary Program in Environment and Resources, *Collaborating for People and Nature: Assessing the Impacts of Collaborative Governance in Federal Hydropower Licensing*

Mehana Blaich Vaughan, 2012, Emmett Interdisciplinary Program in Environment and Resources, *Community-Based Conservation, Resource Management, and Environmental Learning among Native Hawaiian Communities*

Alice Fu, 2011, Graduate School of Education, *Designers as Brokers: The Development of Field Trip Programs at Three Informal Science Institutions*

Current Postdoctoral Scholars

Ann C. Thresher, 2022–2024, *Ethics and the Environment*, joint with the McCoy Family Center for Ethics in Society

Completed Postdoctoral Scholars

Diane Matar, 2018–2019, *Coastal Fog-Mediated Interactions Between Climate Change, Upwelling, and Coast Redwood Resilience: Projecting Vulnerabilities and the Human Response*

Carly Sponarski, 2015–2016, *Motivating and Sustaining Pro-Ocean Literacy and Behavior*

Jennifer Thomsen, 2014–2015, *Environmental Learning and Environmental Behavior as Evidenced in the San Francisco Bay Area Case Studies*

Rachelle Gould, 2013–2015, *Environmental Learning and Environmental Behavior within a Community-Based Paradigm*

Janel Schuh, 2012–2014, *Environmental Communication and Sense of Place as an Avenue toward Social Change*

Deborah Wojcik, 2012–2013, *Organizational Network Analysis of Environmental Learning in the Bay Area*

Mele Wheaton, 2011–2015, *Does Nature-Based Tourism Motivate Science Learning and Environmental Behavior?*

Hilary Boudet, 2010–2012, *Behavioral Science Strategies for Motivating Environmental Behavior for Residential Energy Efficiency* (Co-advisor: Thomas Robinson, M.D., School of Medicine and Health Prevention Research Center)

Carter Hunt, 2009–2012, *Nature-Based Tourism as a Motivation for Environmental Behavior* (Co-advisor: William Durham, Anthropology)

VISITING SCHOLARS

Professor Jonas Lysgaard, Aarhus University, Denmark, 2022

Daniel Kardyb, MS, Aarhus University, Denmark, 2022

Dr. Pascal Frank, DADD Postdoctoral Scholar, Germany, 2022

Professor Arjen Wals, Wageningen University, Netherlands, 2019

Professor Dilafruz Williams, Portland State University, OR, 2012, 2018–2019

Dr. Elin Kelsey, Royal Roads University, Victoria, Canada, 2018

Professor Tanja Srebotnjak, Harvey Mudd College, CA, 2018

Professor Alan Reid, Monash University, Melbourne, Australia, 2017

Professor Noah Weeth Feinstein, University of Wisconsin-Madison, WI, 2016–2017

AWARDS AND HONORS

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| 2021–2026 | Bass University Fellow in Undergraduate Education, Stanford University |
| 2018–present | Inaugural Emmett Family Faculty Scholar, School of Earth, Energy, and Environmental Sciences / Doerr School of Sustainability, Stanford University |
| 2018–2020 | Inaugural Cohort, Leading Interdisciplinary Collaborations (LINC) Fellow, Stanford Woods Institute for the Environment |
| 2018 | William C. Everhart Award, Clemson Institute for Parks, Clemson University |
| 2018 | Roland Volunteer Service Prize, Haas Center for Public Service, Stanford University |
| 2017–2018 | Stanford University Faculty Scholar, Stanford University |
| 2017 | Osher Fellow, Exploratorium, San Francisco |
| 2016 | Outstanding Contributions to Research in Environmental Education Award, North American Association for Environmental Education, Washington, DC |
| 2015–2016 | Haas Faculty Fellow, Haas Center for Public Service, Stanford University |
| 2014 | President’s Award, North American Association for Environmental Education, Washington, DC |
| 2011–2012 | Inaugural Cohort, Women’s Voice and Influence Program, Clayman Institute for Gender Studies, Stanford University |
| 1999 | World of Difference Award, World Wildlife Fund, Washington, DC |
| 1998 | Outstanding Graduate Assistant Award, University of Wisconsin, Stevens Point |

PH.D. RESEARCH GRANTS AND FELLOWSHIPS

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| 2008–2009 | Switzer Leadership Grant |
| 2007 | Reverend Albert A. Nielsen Award in Environmental Values and Ethics |
| 2006 | Morris K. Udall Environmental Public Policy and Conflict Resolution Fellowship |
| 2001–2004 | Ecoregion Conservation Research Grant, World Wildlife Fund |
| 2003 | Switzer Environmental Fellowship |

PROFESSIONAL MEMBERSHIPS AND AFFILIATIONS

American Anthropological Association

Ecological Society of America

International Association for Society and Natural Resources

North American Association for Environmental Education

Society for Conservation Biology

COMMUNITY SERVICE

Ellen Fletcher Middle School, Palo Alto, CA: Coordinator, 50th Anniversary Earth Day Celebrations and Podcast; Library Volunteer; Co-coordinator, Independent Bookstore/Library Community-Building Event; Yearbook Volunteer: 2017–2020

Girl Scout Troop Co-Leader, Palo Alto, CA: 2013–2017; supported troop's earning of Bronze Award: 2017

Ohlone School, Palo Alto, CA: Farm Volunteer, 2012–present; Fifth-Grade Gift Coordinator; Cast Party Coordinator; End-of-Year Simulation Volunteer: 2016–2017

Palo Alto Children's Theatre, Palo Alto, CA: Parent Volunteer: 2014–2019

Peter Coutts Faculty Housing, Stanford, CA: Homeowners Association Building Representative/Coordinator; Halloween Parade Coordinator; Community Events Coordination Committee: 2009–present

REFERENCES

Available upon request