

Kelly L. Hoke

Curriculum Vitae

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EDUCATION

Current *Doctor of Philosophy, Environmental Sciences (Social Sciences), Oregon State University. Advisor: Xiangyou (Sharon) Shen*

2018 *Master of Science, Human Development and Family Sciences, Oregon State University, M.S.*

2003 *Bachelor of Science, Biology, Lenoir-Rhyne University*

RESEARCH EXPERIENCE

2018- Present STEM Research Center, Researcher

Research Portfolio includes:

2020- Present *interPLAY: Developing STEM Skills through Play and Exhibit Design for Early Learners in Children's Museums and Science Centers (Lead Researcher)*
Research in Service to Practice, Advancing Informal Science Learning (AISL) grant funded by NSF focused on broadening participation and meeting the growing demands of playful engagement with STEM exhibits for children three to eight. Mixed methods study. Collaboration with the Association of Children's Museums (PI).

2018- Present *BID: Grounding Institutional Partnerships in Structures for Broader Impacts Design*
Implementation based study design funded through NSF, exploring roles and structures in collaborative partnerships between Informal STEM education centers (ISEs) and Higher Education Institutions (HEIs) using a contextual framework along with a toolkit collaboratively designed for broader impacts. Mixed methods study. Led formative and summative evaluation.

2018 – Present *UFERN: Undergraduate Field Experiences Research Network*
Research Coordination Network funded through NSF to establish an interdisciplinary network of undergraduate field experience researchers. Project coordination including communication with several external partners and stakeholders, coordination of meetings, annual network meetings, and webinar series. Co-development of products aimed to contribute or launch future research (i.e., Undergraduate Field Experience Model) including supplement, UFERN Framework Professional Learning Community.

2018 – Present *OTS: On-The-Spot Assessment to Improve Scientist Engagement with the Public*
Spiral design research study funded through NSF's Advancing Informal Science Learning (AISL) program to improve scientists' engagement with the public using on the spot assessment strategies. Research focus on potential behavior change of scientists while learning to engage with their audience during public outreach.

Graduate Research Assistant

2017-2018 Summer Contract (2017), Graduate Research Assistant (2017-2018), Dr. Megan McClelland, Oregon State University, The Kindergarten Readiness Program, *Red Light, Purple Light! Developing a Self-Regulation Intervention and Developing a Measure of Self-Regulation for Children at Risk.*

- 2016- 2017 Graduate Research Assistant (2016-2017), Summer Contract (2017), Research Student (Fall 2017), Dr. Kelly Davis, Oregon State University, FLOW Lab, *Exploring Family Dynamics in a Core Family Leisure Context*.
- 2015- 2016 Graduate Research Assistant, Dr. Bridget E. Hatfield, Oregon State University, SEARCH Lab, *Supporting healthy stress response systems for children with challenging behaviors: Examining associations with child behavior and teacher-child interactions. Examining the parent-child relationships within the Oregon Parenting Education Collaborative*.

UNDERGRADUATE RESEARCH EXPERIENCE

- 2003 Student Intern, Student Conservation Association/Americorps/Bureau of Land Management, Alaska, *Abundance and run timing of adult salmon on the Tozitna and Koyukuk Rivers*.
- 2002 Senior undergraduate research, Study abroad: Institute for Tropical Ecology and Conservation, Bocas Del Toro, Panama, *Behavioral Response and Niche of Dendrobates pumilio*

PROFESSIONAL EXPERIENCE

Adjunct Instructor

Fall, Winter, 2020 Middle Childhood & Adolescent Development, Linn-Benton Community College

Graduate Teaching Assistant

- 2018 Contemporary Families in the U.S., Oregon State University (>300 students)
- 2017-2018 Family, School, and Community Collaboration, Oregon State University
- 2016 Adolescent Development, Oregon State University
- 2015 Parenting Research and Application, Oregon State University

Informal Education/Practitioner Experience

- 2011 - 2015 Catawba County Soil & Water Conservation District, *District Education Coordinator*
- 2004 - 2011 North Carolina State Parks – West District (12 parks), *District Education Specialist (2004-2005 Ranger, South Mountains State Park)*
- 2003-2004 Catawba Science Center, *Science Educator/Weekend Manager*

PUBLICATIONS

Peer-Reviewed

- 2022 Rosin, M., Storksdieck, M., O’Connell, K., Keys, B., **Hoke, K.**, Lewenstein, B. (*in press*). Broadening Participation in Science through Arts-Facilitated Experiences at a Cultural Festival. *Science Communication*.
- 2022 O’Connell, K., **Hoke, K.**, Giamellaro, M., Berkowitz, A., Branchaw, J. A tool for designing and studying student-centered undergraduate field experiences: The UFERN Model. *BioScience*, 72(2). pp. 189-200.
<https://doi.org/10.1093/biosci/biab112>
- 2022 Hodge, C. J., Chandler, K. D., Melton, K. K., **Hoke, K.** & Blodgett, J. (2022). Real-time, passive measurement of communication during family leisure: An

exploratory study of wearable sociometric badges. *Journal of Leisure Research*, 53(1), pp. 132-138. <https://doi.org/10.1080/00222216.2020.1795013>

- 2020 O'Connell, K., **Hoke, K.**, Berkowitz, A., Branchaw, J., & Storksdieck, M. (2020). Undergraduate Learning In the Field: Designing Experiences, Assessing Outcomes, and Exploring Future Opportunities. [Special Issue: Large-Scale Analysis of Teaching Practices and Education Communities in STEM Disciplines]. *Journal of Geoscience Education*. <https://doi.org/10.1080/10899995.2020.1779567>

Policy Briefs

- 2016 Hatfield, B. E., & **Hoke, K.** (2016). *Improving the quality of family, friend, & neighbor care: A review of the research literature*. Retrieved from: <https://health.oregonstate.edu/sites/health.oregonstate.edu/files/occrp/pdf/improving-the-quality-of-family-friend-and-neighbor-care-2016.pdf>
- 2016 Hatfield, B.E., & **Hoke, K.** (2016). *Family, Friend, and Neighbor Care: Status of States' Support for FFN Care*. Retrieved from: <https://oregonearlylearning.com/wp-content/uploads/2017/04/FFN-State-Report-FINAL.pdf>

Technical & Evaluative Reports

- 2021 **Hoke, K.** and Risien, J. (2021). Grounding Institutional Partnerships in Structures for Broader Impact Design: Summative Evaluation Report
- 2019 **Hoke, K.** and Risien, J. (2019). Collaborative Research: Grounding Institutional Partnerships in Structures for Broader Impact Design Mid-Way Evaluation Report. Corvallis, OR: Center for Research on Lifelong STEM Learning. <https://doi.org/10.5399/osu/1136>
- 2018 O'Connell, K., **Hoke, K.**, Nilson, R. (2018). Report from the Field on the Design, Outcomes, and Assessment of Undergraduate Field Experiences. Technical Report. Corvallis, OR: Oregon State University. <https://doi.org/10.5399/osu/1130>

Reviews

- 2020 **Hoke, K.**, O'Connell, K., Semken, S., Arora, V. (2020). Promoting a Sense of Place Virtually: A Review of the ESA Weekly Water Cooler Chat focused on Virtual Sense of Place. *The Bulletin of the Ecological Society of America*, 102(3). <https://doi.org/10.1002/bes2.1734>

Invited Chapters/blogs/newsletters

- 2022 Jones, T. and **Hoke, K.** (*In development*) Middle Childhood and Adolescent Development. *Open Access Education Resource (OER grant)*.
- 2022 Risien, J., **Hoke, K.**, and Fleming, T. (*Pending editor review*). Broader Impacts Infrastructure in Higher Education. In L. Van Egeren & Renoe, S (Eds.). *Broader Impacts Handbook*.
- 2022 **Hoke, K.** (2022). *STEM and the Guidelines*. eePRO Blog, North American Association for Environmental Education. <https://naaee.org/eepro/blog/stem-and-guidelines>

2018

Hoke, K. (2018). *The Importance of Outdoor Play*. Old Mill Center for Families and Children newsletter.

PRESENTATIONS

Online Presentations

O'Connell, K., **Hoke, K.**, Giamellaro, M., Berkowitz, A., (2020). *Using the UFERN Framework to improve field program design and evaluation*. Virtual. Organization of Biological Field Stations Annual Meeting.

O'Connell, K., **Hoke, K.**, Giamellaro, M., Berkowitz, A., Middendorf, G. (2020). *Using the UFERN Framework to improve field program design and evaluation*. Virtual. Ecological Society of America Conference.

SciEngage group meeting (2020). *University/ISE Partnerships in Support of Broader Impacts*. Washington, D.C.: American Association for the Advancement of Science.

<https://www.aaas.org/events/sciengage-virtual-discussion-april-it-long-haul-universityise-partnerships-support-broader>

Hoke, K. and Risien, J. (2019). *Visualizing Connections and Influences across the Informal Science Education and Science Communication Communities: An interactive map of thinkers and leaders*. Washington, D.C.: Center for Advancement of Informal Science Education

<https://khoke.kumu.io/visualizing-connections-and-influences-across-the-ise-and-scicomm-communities>.

Hoke, K. (2019). *Nature Education in Different Contexts, Including STEM*. Ithaca, NY: Cornell University, Civic Ecology Lab.

Poster Presentations

Hoke, K., Rehkamp, J., Storksdieck, M., Riedinger, K., (2021). *What supports playful STEM exhibit engagement?* The Association of Science and Technology Centers Conference, Virtual.

O'Connell, K.B., **Hoke, K.**, M. Giamellaro, & A. R. Berkowitz. (2020). *The nature of undergraduate field experiences: A framework to guide program design and research*. Earth Educator Rendezvous. Virtual.

O'Connell, K., **Hoke, K.**, Giamellaro, M., Berkowitz, A. (2019). *The Nature of Undergraduate Field Experiences: A Framework to Guide Program Design and Research*. Ecological Society of America Conference, Louisville, KY.

Hoke, K., and O'Connell, K. (2018). *Undergraduate Field Experiences Research Network: opportunities for future EE research*. North American Association for Environmental Education Research Symposium, Spokane, WA.

Hoke, K., and Hatfield, B. (2018). *Constructing Four Elements of the Preschool Playground*. College of Public Health and Human Sciences Graduate Poster Session, Corvallis, OR. *People's Choice winner*.

Gull-Laird, S., **Hoke, K.**, & McFarland, L. (2018). *Working to Eliminate Barriers to the Outdoors for Young Children*. North American Association for Environmental Education Conference, San Juan, PR (2017) and Spokane, WA (2018).

Hoke, K., and Hatfield, B. (2016/2017). *Examining the effect of outdoor play settings on cortisol in preschoolers attending child care*. Oregon Public Health Association Conference, Corvallis, OR; Oregon Parenting Educators Conference, Corvallis, OR.

Hatfield, B., **Hoke, K.**, Ebadirad, S., & Henry, J. (2016). *Children's behavior and activity in the stress response system within early childhood classrooms*. Administration of Children and Families National Research Conference, Washington, D.C.

Conference Sessions

- Hodge, C., Davis, K., **Hoke, K.**, Standridge, D. (2017). *Ecological Momentary Assessment (EMA) Methods in Family Experience Research: Validating Sociometric Badges*. National Council on Family Relations Conference, Orlando, FL.
- Hoke, K.**, and Fleming, L. (2014). *Eco-Yoga for Kids*. Environmental Educators of North Carolina Conference, Asheboro, NC.

SERVICE AND LEADERSHIP

- 2021 Imagine Corvallis Action Network, Advisory Board, Corvallis, OR (2021-2024)
- 2020 Scholarship Review, Linn-Benton Community College
- 2019 STEM Research Center Search & Interview committee: Researcher position, Corvallis, OR
- 2019 Proposal review for Administration for Children and Families' (ACF) National Research Conference on Early Childhood 2020 (NRCEC 2020)
- 2019 Proposal review for North American Association for Environmental Education Conference (NAAEE 2019)
- 2018 Naturalist (volunteer), Greenbelt Land Trust, Corvallis, OR
- 2017 Hatfield, B., **Hoke, K.**, & Lewis, H. *Intentional Teaching: Nurturing Creativity, Curiosity, & Critical Thinking in Young Children*. (presenter and staff support) Oregon State University, Corvallis, OR
- 2016 Graduate Representative to the Human Development & Family Studies Graduate Council. Oregon State University, Corvallis, OR (2016-2018)
- 2015 Hatfield, B., *Intentional Teaching: Supporting Children's Positive Behaviors*. (Administrative and staff support) Oregon State University, Corvallis, OR
- 2014 Hickory Parks & Recreation At-Risk Youth Yoga program, Hickory, NC (2014-2015)
- 2009 (Appointed) Catawba County Cooperative Extension Board, Hickory, NC (2009- 2012)
- 2008 (Elected) Catawba County Soil & Water Board of Supervisors, Hickory, NC (2008-2011)

FELLOWSHIPS AND AWARDS

- 2017-2018 Mockmore, Human Development and Family Studies Fellowship
- 2017-2018 Sonin, Human Development and Family Studies Fellowship
- 2016-2017 Gravatt, Human Development and Family Studies Fellowship
- 2008 North Carolina Association for Environmental Educators, Outstanding Newcomer Award

PROFESSIONAL AFFILIATIONS

North American Association for Environmental Education, Natural Start Alliance
 Society for Research in Child Development
 Children and Nature Network

CERTIFICATIONS/ SKILLS

CITI training (2015; 2018; 2021)

Additional Selected

Childlight Yoga – Children's Yoga Instructor (2014)

Inner Life of a Child in Nature- 2-year cohort through The Center for Education, Imagination, and the Natural World (2012- 2014)

Certified North Carolina Environmental Educator (2006)