**Kelly Riedinger, Ph.D.**
**Curriculum Vitae**

Center for Research on Lifelong STEM Learning
Oregon State University
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## 1. PERSONAL INFORMATION

### Current position

April 2016-present — Senior Researcher
Oregon State University
Center for Research on Lifelong STEM Learning
Corvallis, Oregon

### Education

Ph. D. — Curriculum and Instruction (Science Education), August 19, 2011
The University of Maryland, College Park, MD
Major Professor: Dr. J. Randy McGinnis
Dissertation title: *Identity Development of Middle School Students as Learners of Science at an Informal Science Education Camp.*

M.S. — Ocean, Earth, and Atmospheric Sciences, May 8, 2004
Old Dominion University, Norfolk, VA
Master's Advisor: Dr. John McConaugha

B.A. — Biology (minor: Education), May 18, 2002
Wittenberg University.
*Cum Laude*, Department Honors in Biology
Advisor: Dr. Margaret Goodman
Dept. Honors Thesis: *The effects of tidal changes on the species diversity of invertebrate organisms inhabiting Bahamian intertidal pools.*

### Professional Experience

12/13-12/16 **Director of Research and Evaluation,** *David Heil & Associates, Inc., Innovations in Science Learning.* Portland, Oregon.

Responsibilities: Lead a team of STEM research and evaluation specialists in ongoing external evaluation and research studies for public and private sector clients. In collaboration with team members, design and implement evaluation studies and research investigations using mixed methods and qualitative studies. Maintain an active research agenda and publication record to advance the mission of the firm.

8/11-5/14 **Assistant Professor**, *Watson College of Education, Department of Early Childhood, Elementary, Middle, Literacy and Special Education*. University of North Carolina Wilmington, Wilmington, North Carolina.

Responsibilities: Teaching undergraduate and graduate level courses in pedagogical principles, curriculum and theory, and elementary science methods; lead and collaborated with a team of professors to coordinate students' field experiences; supervised elementary teacher interns in their professional development schools; conducted research and service to college and community.

5/10-5/11 **Research Associate**, *Department Curriculum and Instruction, Science Teaching Center*, University of Maryland, College Park, Maryland.

Responsibilities: Conducted research as part of a collaborative research team for Project Nexus, an NSF funded grant project. Involved in all aspects of research including data collection, IRB training and applications, analysis, presentation and publication.

8/07-5/10 **Graduate Assistant**, *Department Curriculum and Instruction. Science Teaching Center*, University of Maryland, College Park, Maryland.

Responsibilities: Supervised teacher interns in professional development Schools. Conducted research as a Graduate Research Assistant for Project Nexus, an NSF funded grant project. Involved in all aspects of research including data collection, IRB training and applications, analysis, presentation and publication. Taught and apprenticed the undergraduate elementary science methods course, participated in department elementary education program meetings.

8/05-8/07 **Middle School Science Teacher**. *Virginia Beach Public Schools*, Virginia Beach, Virginia.

Responsibilities: Taught Earth science and Physical science at Larkspur Middle School. Participated in a collaborative teaching team as well as a science curriculum team.

8/04-8/05 **High School Science Teacher**. *Gloucester County Public Schools*. Taught Earth science and Oceanography at Gloucester High School.

Responsibilities: Taught Earth science and Oceanography at Gloucester High School. Served as the science teacher on a collaborative teaching team for ninth grade students.

8/02-8/04 **Graduate Assistant**. *Department of Ocean, Earth, and Atmospheric Sciences*, Old Dominion University, Norfolk, Virginia.

Responsibilities: Taught the Introduction to Oceanography courses and participated as a graduate research assistant in the research labs of Drs. John McConaugha, Fred Dobbs, and Margaret Mulholland.

5/01-5/04 **Educator**. *Virginia Marine Science Museum*, Virginia Beach, Virginia.

Responsibilities: Developed and conducted fee-based education programs including Elementary and Middle School Sea Camps, birthday parties for preschool and early elementary school students, preschool Discovery Days, and Elementary Afterschool Scientist programs. Developed *Trash Bash* exhibit during June and July 2001. Also developed the *Secrets of the Deep* floor program and the *Dinosaurs* birthday party program for preschool students.

9/00-5/01 **Afterschool Program Assistant.** *Kenwood Elementary School.* Springfield, Ohio.

Responsibilities: Work in partnership with program lead to plan and implement afterschool programming focused on students' academic, physical and social growth. Assisted students with their homework and offered tutoring in reading, math and science.

**Education Field Experiences**

1/01 – 5/01 Field experience in a 7th grade physical science classroom at Tecumseh Middle School in New Carlisle, Ohio.

1/02-5/02 Completed an internship teaching environmental and informal science education to elementary students visiting the Land Lab through Springfield City Public Schools.

1/02-5/02 Field experience in Kindergarten classroom at Snowhill Elementary School in Springfield, Ohio.

1/99-5/99 Kindergarten tutor in reading and math at Snyder Park Elementary in Springfield, Ohio.

## 2. RESEARCH and SCHOLARLY ACTIVITIES

**a. Book Chapters in Edited Books**

[*Note*: - peer reviewed publication, + invited publications]

-**Riedinger, K.,** & Taylor, A. R. (2018). Leveraging parent chaperones to support youths' learning during an out-of-school time field trip to a marine science field station. In G. Fauville, F. Crouch, A. Lantz-Andersson, M. Marrero, & D. Payne (Eds.), *Exemplary practices in marine science education: A resource for practitioners and researchers.*

+ Hestness, E., **Riedinger, K**., & McGinnis, J. R. (2017). Multiple approaches to using informal science education to prepare informal and formal science educators. In P. Patrick (Ed.), *Preparing Informal Science Educators.* New York, NY: Springer.

McGinnis, J. R., Hestness, E., **Riedinger, K.**, Katz, P., Marbach-Ad, G. & Dai, A. (2012). Informal science education in formal science teacher preparation. In K.Tobin, B. Frasier, & C.

McRobbie (Eds.), *Second international handbook of science education* (pp. 1097-1108). The Netherlands: Kluwer.

McGinnis, J. R., Hestness, E., & **Riedinger, K.** (2012). Changing science teacher education in a changing global climate: Telling a new story. In Jing Ling and R. Oxford (Eds.), *Transformative Eco-Education For Human Survival: Environmental Education In A New Era.* Charlotte, North Carolina: Information Age Publishing.

**b. Articles in Refereed Journals**

**[***Note*: -peer-reviewed research publication, + invited publications**]**

- **Riedinger, K.,** & McGinnis, J. R. (2017). An investigation of the role of learning conversations in youth's authoring of science identities during an informal science camp. *International Journal of Science Education, Part B: Communication and Public Engagement, 7*(1), 76-102.

- **Riedinger, K.** & Taylor, A. (2016). "I could see myself as a scientist": The potential of out-of-school-time programs to influence girls' identities in science. *Afterschool Matters, 23*, 1-7.

- **Riedinger, K.** & Burns, K. (2016). Let's Talk Science: The Implementation of Family Discussion Guides in Out-of-School Learning Settings. *Current: The Journal of Marine Education, 30*(1), 5-12.

-**Riedinger, K.** (2015). Identity Development of Youth During Participation at an Informal Science Education Camp. *International Journal of Environmental and Science Education, 10*(3), 453-475.

-Katz, P., McGinnis, J. R., **Riedinger, K.,** Marbach-Ad, G., & Dai, A. (2013). The influence of informal science education experiences on the development of two beginning teachers' science classroom teaching identity. *Journal of Science Teacher Education*.

+**Riedinger, K.** (2012). Family conversations in informal learning environments. *Childhood Education, 87* (7).

**-Riedinger, K.,** Marbach-Ad, G., McGinnis, J. R., & Hestness, E. (2011). Transforming elementary science teacher education by bridging formal and informal science education in an innovative science methods course. *Journal of Science Education and Technology, 20*(1), 51-64.

-Hestness, E., McGinnis, J. R., **Riedinger, K.**, & Marbach-Ad, G. (2011). A study of teacher candidates' experiences investigating global climate change education within an elementary science methods course. *Journal of Science Teacher Education, 22*(4), 351-369.

-Katz, P., McGinnis, J. R., Hestness, E., **Riedinger, K.**, Dai, A., Pease, R., and Marbach-Ad, G. (2011). Professional identity development of teacher candidates participating in an informal science education internship: A focus on drawings as evidence. *International Journal of Science Education, 33*(9), 1169-1197.

**c. Talk, Abstracts, and Other Professional Papers**

**[**-peer-reviewed, + invited presentations**]**

- Heimlich, J., Storksdieck. M., **Riedinger, K.,** Wotjon, M., Rank. S., Gupta, R., Voiklis, J., & Fraser, J. (2018, Oct.). *Investigating the confluence of visitor and institutional conservation learning agendas.* A research symposium proposal submitted for the 2018

annual conference of North American Association for Environmental Education in Spokane, WA.

-Stylinski, C., Storksdieck. M., Kamarainen, A., **Riedinger, K.,** Kermish-Allen, R. (2018, Oct.). *Harnessing Digital Media to Support, rather than Hinder, Environmental Literacy.* A research symposium proposal submitted for the 2018 annual conference of North American Association for Environmental Education in Spokane, WA.

-Storksdieck. M., **Riedinger, K.,** Heimlich, J., Wotjon, M., Rank. S., Gupta, R., Voiklis, J., & Fraser, J. (2018, Oct.). *Bring, do, take: Useful tools for practitioners.* A conference session proposal submitted for the 2018 annual conference of North American Association for Environmental Education in Spokane, WA.

-Storksdieck, M., Voiklis, J., **Riedinger, K.,** Heimlich, J., & Semper, R. (2018, Oct.). *Aligning your agendas with those of your visitors: Lessons learned from zoos and aquariums.* A session proposal submitted for the 2018 annual conference of Association of Science-Technology Centers in Hartford, CT.

-**Riedinger, K.** (2018, Jul.). *Entry characteristics and decision-making behaviors of zoo and aquarium visitors.* A poster proposal submitted for the 2018 annual conference of the Visitor Studies Association in Chicago, IL.

Heimlich, J., Fraser, J., Rank, S., **Riedinger, K.,** & Wotjon, M. (2018, Mar.). *Investigating the Confluence of Visitor and Institutional Agendas*. A presentation to the Conservation Education Committee at the 2018 mid-year meeting of Association of Zoos and Aquariums in Jacksonville, FL.

-**Riedinger, K.**, Canzoneri, N., & Storksdieck, M. (2018, Mar.). *Investigating the Confluence of Visitor and Institutional Agendas*. A paper presented at the 2018 International annual meeting of NARST in Atlanta, GA.

-Bradshaw, L., Fraser, J., Rank, S., Heimlich, J., Wotjon, M.A., **Riedinger, K.,** Storksdieck, M., & Canzoneri, N. (2017, Sept.). *STEM Matters: Investigating the Confluence of Visitor and Institutional Agendas*. A panel session at the 2017 annual conference of Association of Zoos and Aquariums in Indianapolis, IN.

-Wotjon, M.A., Bennett, N., Burris, A., Niedbalski, A.C., Kubarek, J., & **Riedinger, K.** (2017, Sept.). *Far from the Norm: Weaving unique research and evaluation methods into all aspects of zoo activities/operations.* A poster session at the 2017 annual conference of Association of Zoos and Aquariums in Indianapolis, IN.

-Gunning, A., Marrero, M., Hillman, P., **Riedinger, K.,** Munakata, M., & Eisenkraft, A. (2017, Apr.). *Supporting and Developing K-12 Science Teacher Practice, Knowledge, and Leadership Through Vertically Aligned PLCs.* A paper presented at the 2017 International annual meeting of NARST, San Antonio, TX.

+**Riedinger, K.** (2016, Nov.). *Science in the Community Forum: Highlighting Programs and Practices that Bridge In-School and Out-of-School STEM Learning (moderator).* A discussion panel at the 2016 area conference of the National Science Teachers Association in Portland, OR.

+**Riedinger, K.** (2016, Nov.). *ASTC: Informal Science Educators Networking Brown Bag Lunch.* A session at the 2016 area conference of the National Science Teachers Association in Portland, OR.

-**Riedinger, K.,** Glass, M., & Schatz, D. (2016, Sept.). *Connected Science Learning: A Journal to Connect STEM Educators Across Formal and Informal Education Settings.* A

poster session at the 2016 annual meeting of the Association of Science-Technology Centers in Tampa, FL.

-**Riedinger, K.,** Heil, D., & Fernandi, K. (2016, Sept.). *An Evaluation Study of the Minotaur Mazes Exhibit: Measuring Visitors' Social Interactions and Problem-Solving Talk.* A poster session at the 2016 annual meeting of the Association of Science-Technology Centers in Tampa, FL.

+East, J., & **Riedinger, K.** (2016, Jun.). *An Introduction to Education Evaluation.* A pre-conference workshop at the 2016 annual meeting of the National Marine Educators Association, Orlando, FL.

+**Riedinger, K.** (2016, Mar.). *Science in the Community Forum: Family Science Learning (presider).* A discussion forum at the 2016 annual meeting of the National Science Teachers Association, Nashville, TN.

-**Riedinger, K.,** Burns, K., Metzler-Fiorino, J., Ennes, M., & Gould, A. (2015, Sept.). *An Aquarium-University Partnership for Preparing Marine Science Educators*. A session presentation at the 2015 annual conference of the Association for Zoos and Aquariums, Salt Lake City, UT.

-**Riedinger, K.,** & Burns, K. (2015, Sept.). *Let's Talk about Science: Implementing Family Discussion Guides at an Aquarium*. A session presentation at the 2015 annual conference of the Association for Zoos and Aquariums, Salt Lake City, UT.

-**Riedinger, K.,** Burns, K., Metzler-Fiorino, J., Ennes, M., & Gould, A. (2015, Jul.). *A Partnership between a University and Aquarium to Prepare Marine Science Educators*. A session presentation at the 2015 annual meeting of the National Marine Educators Association, Newport, RI.

-**Riedinger, K., &** Taylor, A. R. (2015, Jun.). *Parent Chaperone-Student Interactions: Lessons Learned from a Field Trip to a Marine Science Field Station*. A session presentation at the 2015 annual meeting of the National Marine Educators Association, Newport, RI.

-**Riedinger, K., &** Burns, K. (2015, Jun.). *Families Talking Science: The Use of Parent Guides to Foster Discussion at an Aquarium*. A session presentation at the 2015 annual meeting of the National Marine Educators Association, Newport, RI.

-**Riedinger, K.** (2015, Apr.). *Guiding Implementation of PreK-12 Engineering Education: LinkEngineering Alpha Site Formative Evaluation Findings.* A presentation to the *Guiding Implementation of PreK-12 Engineering Education* project committee of the National Academy of Engineering, Washington, DC.

-**Riedinger, K.** & Taylor, A. (2015, Apr.). *Parent Chaperone-Student Interactions during a Field Trip to an Informal Science Education Camp.* A paper presented at the 2015 International annual meeting of NARST, Chicago, IL.

+**Riedinger, K.** (2014, Oct.) *Program Evaluation*. Invited guest lecturer, EDL 642: Program Evaluation, University of North Carolina Wilmington. Wilmington, North Carolina.

-**Riedinger, K**. & Taylor, A. (2014, Apr.). *Examining the Role of Learning Conversations on Students' Identity Development as a Learner of Science during a Girl Scout Field Trip.* A paper presented at the 2014 international annual meeting of NARST, Pittsburgh, PA.

-**Riedinger, K.**, Martin, T., & Holzer, M. (2014, Apr.). *Raindrops Keep Falling in My Gauge: School Partnerships with a Citizen Science Network to Increase Climate Literacy.* A session at the 2014 annual meeting of the National Science Teachers Association, Boston, MA.

**+Riedinger, K.** (2013, Oct.). *Informal Science and Outdoor Education*. Invited guest presenter, Teaching Science to Students K-5 (Dr. Amy Taylor & Mrs. Karen Hill), Department of Elementary, Middle Level and Literacy Education, Watson College of Education, University of North Carolina Wilmington, Wilmington, North Carolina.

**-Riedinger, K**. & Taylor, A. (2013, Apr.). Let's Talk Science: Learning Conversations in Formal and Informal Science Education. A session at the 2013 annual meeting of the National Science Teachers Association, San Antonio, Texas.

**-Riedinger, K**. (2013, Jan.). *Students' construction of identity as a learner of science during learning conversations: Implications for the professional development of educators in informal science education.* A poster presented at the 2013 annual meeting of the Association for Science Teacher Education, Charleston, South Carolina.

**+Riedinger, K.** (2012, Oct.). *Connecting Formal and Informal Science Education for Student Learning*. Invited guest presenter, Professional Learning Day, UNCW Watson College of Education, University of North Carolina Wilmington, Wilmington, North Carolina.

**+Riedinger, K.** (2012, Sept.). *Informal Science and Outdoor Education*. Invited guest presenter, Teaching Science to Students K-5 (Dr. Amy Taylor), Department of Elementary, Middle Level and Literacy Education, Watson College of Education, University of North Carolina Wilmington, Wilmington, North Carolina.

**-Riedinger, K**. (2012). *Identity Development of Middle School Students as Learners of Science during Learning Conversations at an Informal Science Education Camp*. In the 2012 Proceedings of the National Association for Research in Science Teaching Annual Meeting.

**-Riedinger, K**. (2012, Mar.). *Identity Development of Middle School Students as Learners of Science during Learning Conversations at an Informal Science Education Camp*. A paper presented at the annual meeting of the National Association for Research in Science Teaching, Indianapolis, Indiana.

-McGinnis, R., Katz, P., Breslyn, W., Marbach-Ad, G., & **Riedinger, K.** (2012, Mar.). *The Challenge of 21st Century Science Education to Offer New Insights for a Diverse Global Community: Re-imagining the Use of Participants' Drawings as a Data Collection Strategy*. A Presidential Sponsored Symposium presented at the annual meeting of the National Association for Research in Science Teaching, Indianapolis, Indiana.

-Katz, P., McGinnis, J. R., & **Riedinger, K.** (2012, Mar.). *Draw your way to better teaching and learning in science*. A session presented at the annual meeting of the National Science Teachers Association, Indianapolis, Indiana.

**-Riedinger, K**. (2011, Oct.). *"I could see myself as a scientist": Lessons learned from an Informal Marine Science Education Camp*. A poster presented at the annual meeting of the Mid-Atlantic Marine Education Association, Williamsburg, Virginia.

**-Riedinger, K**. (2011). *Middle School Students' Identity Development as Learners of Science at an Informal Science Education Camp*. In the 2011 Proceedings of the National Association for Research in Science Teaching Annual Meeting.

-Katz, P., McGinnis, J. R., **Riedinger, K**., Marbach-Ad, G., Dai, A., & Pease, R. (2011). *Professional Identity Development of Beginning Elementary Teachers of Science: A Comparative Case Study*. In the 2011 Proceedings of the National Association for Research in Science Teaching Annual Meeting. Orlando, Florida.

**-Riedinger, K.** (2011, Apr.). *Middle School Students' Identity Development as Learners of Science at an Informal Science Education Camp*. A paper presented at the annual meeting of the National Association for Research on Science Teaching, Orlando, Florida.

-Katz, P., McGinnis, J. R., **Riedinger, K.**, Dantley, S. J., Marbach-Ad, G., Pease, R., Dai, A., & Jusiewicz, L. (2011, Apr.). *Professional Identity Development of Beginning Elementary Teachers of Science: A Comparative Case Study*. A poster presented at the annual meeting of the National Association for Research on Science Teaching, Orlando, Florida.

-McGinnis, J. R., Katz, P., & **Riedinger, K.** (2011, Mar.). *Drawings for Science Teaching and Learning.* A session presented at the annual meeting of the National Science Teachers Association, San Francisco, California.

**-Riedinger, K.,** McGinnis, J. R., & Katz, P. (2011, Mar.). *NARST Session: Drawing your way from Research to the Classroom.* A workshop presented at the annual meeting of the National Science Teachers Association, San Francisco, California.

**+Riedinger, K.** (2011, Feb.). *Project Nexus: Transforming Elementary Science Teacher Education by Bridging Formal and Informal Science Education.* A research seminar presented to the University of North Carolina Wilmington's Watson School of Education, Wilmington, North Carolina.

**+Riedinger, K.** (2010, Oct.). *Introduction to Informal Science Education*. Invited guest presenter, Elementary Teacher Education Program, Department of Curriculum & Instruction, College of Education, University of Maryland, College Park, Maryland.

**-Riedinger, K.** (2010, Apr.). *The influence of the inclusion of informal science education and a focus on data management in an elementary science methods course*. A paper presented at the University of Maryland College of Education Graduate Research Day, College Park, Maryland.

**-Riedinger, K**., Marbach-Ad, G., McGinnis, J. R., Hestness, E., & Pease, R. (2010, Mar.). *Transforming elementary science teacher education by bridging formal and informal science education in an innovative science methods course*. A paper presented at the annual meeting of the National Association for Research in Science Teaching, Philadelphia, Pennsylvania.

-Katz, P., Hestness, E., **Riedinger, K.**, McGinnis, J. R., Dai, A., and Pease, R. (2010, Mar.). *Identity development of teacher candidates participating in an informal science education internship: A focus on drawings as evidence*. A paper presented at the annual meeting of the National Association for Research in Science Teaching, Philadelphia, Pennsylvania.

**-Riedinger, K**., Marbach-Ad, G., McGinnis, J. R., Hestness, E., & Pease, R. (2010). *Transforming elementary science teacher education by bridging formal and informal science education in an innovative science methods course*. In the 2010 Proceedings of the National Association for Research in Science Teaching Annual Meeting.

-Katz, P., Hestness, E., **Riedinger, K.**, McGinnis, J. R., Dai, A., and Pease, R. (2010). *Identity development of teacher candidates participating in an informal science education*

*internship: A focus on drawings as evidence*. In the 2010 Proceedings of the National Association for Research in Science Teaching Annual Meeting (39 pages).

-Katz, P., McGinnis, R., **Riedinger, K.,** Hestness, E., Robinson, T., Williams, R., & Wilsman, R. (2010, Mar.). *Project Nexus: How does an informal afterschool science teaching experience influence teachers' identity? Using drawings as a reflective tool*. A poster presented at the annual meeting of the National Science Teachers Association, Philadelphia, Pennsylvania.

-Katz, P., McGinnis, J. R., Robinson, T., Williams, R., Wilsman, R., & **Riedinger, K.** (2010, Mar.). *First-year science teaching as a Project Nexus Graduate.* A presentation for Teacher Researcher Day at the annual meeting of the National Science Teachers Association, Philadelphia, Pennsylvania.

-Katz, P., McGinnis, J. R., Hestness, E., **Riedinger, K.**, & Marbach-Ad, G. (2009, Apr.). *Bridging Informal and Formal Science Education in Elementary Teacher Preparation: A Study of the Role of an Internship in an Afterschool Informal Science Program*. A poster presented at the annual meeting of the American Educational Research Association, San Diego, California.

-Katz, P., McGinnis, J. R., Hestness, E., **Riedinger, K.**, Marbach-Ad, G., & Dantley, S. J. (2009) *Transforming Science Teacher Preparation by Bridging Formal and Informal Science Education: A Focus on Drawings as Evidence*. In the 2009 Proceedings of the National Association for Research in Science Teaching Annual Meeting (78 pages).

-McGinnis, J. R., Katz, P., Hestness, E., **Riedinger, K.**, Marbach-Ad, G., & Dantley, S. J. (2009, Apr.). *Transforming Science Teacher Preparation by Bridging Formal and Informal Science Education: A Focus on Drawings as Evidence*. A paper presented at the annual meeting of the National Association for Research in Science Teaching, Garden Grove, California.

-McGinnis, J. R., Hestness, E., & **Riedinger, K.** (2008, Nov.). *A climate change module for elementary education teacher interns: Four activities*. A poster presented at the annual meeting of SENSER, University of Maryland, College Park.

-McGinnis, J.R, Katz, P., Hestness, E, **Riedinger, K.**, & Marbach-Ad, G. (2008). *Research in Project Nexus: An examination of the use of drawings to gain insight into elementary education interns' change of science teaching identify as influenced by an informal science education internship*. A presentation at the UMD Science Teaching Center's colloquium series. College Park, MD.

**-Riedinger, K.,** & Miller, E. (2002). *The Effects of Tide Changes on Phylum Diversity in Bahamian Intertidal Pools.* A poster presented at the annual meeting of The Ohio Journal of Science. Alliance, OH.

**d. Evaluation & Technical Reports**

Bonebrake, V., **Riedinger, K.**, & Storksdieck, M. (2018). *Explorer at Large: Pilot Implementation Study Report*. Unpublished evaluation report submitted to Little Yud Ventures and the Bezos Family Foundation.

**Riedinger, K.**, & Storksdieck, M. (2017). *Curiosity Machine Family Science and Classroom Implementation* Evaluation Report. Unpublished evaluation report submitted to Iridescent Learning and the Overdeck Family Foundation.

Keys, B., **Riedinger, K.,** & Storksdieck, M. (2017). *Bringing the Universe to America's Classrooms: Teacher Professional Development Survey Findings*. Unpublished evaluation report submitted to WGBH/PBS Learning Media.

**Riedinger, K.** (2017). *Connected Science Learning: Linking In-School and Out-of-School STEM Educators* Final Evaluation Report. Unpublished evaluation report submitted to the National Science Teachers Association (NSTA) and the Association of Science-Technology Centers (ASTC).

**Riedinger, K.,** Storksdieck, M., & Keys, B. (2017). *Bringing the Universe to America's Classrooms: Year 1 Final Evaluation Report*. Unpublished evaluation report submitted to WGBH/PBS Learning Media.

**Riedinger, K. (2016).** *Connected Science Learning: Linking In-School and Out-of-School STEM Educators* Formative Evaluation Report. Unpublished evaluation report submitted to the National Science Teachers Association (NSTA) and the Association of Science-Technology Centers (ASTC).

**Riedinger, K.** & Storksdieck, M. (2016). *Bringing the Universe to America's Classroom Front-end Needs Assessment*. Unpublished evaluation report submitted to WGBH/PBS Learning Media.

**Riedinger, K.,** & Garrison, B. (2016). *Ocean Exploration Trust: 2015 Expedition Season Evaluation Report.* Unpublished evaluation report submitted to the Ocean Exploration Trust and the University of Rhode Island.

**Riedinger, K.,** & Garrison, B. (2015). *eCybermission: Longitudinal Study.* Unpublished evaluation report submitted to NSTA and the Army Education Outreach Program.

Heil, D, & **Riedinger, K.** (2015). *CUREE Golden Gate Bridge Outdoor Exhibition Project: Summative Evaluation Report* (NSF). Unpublished evaluation report for the Consortium of Universities for Research in Earthquake Engineering.

**Riedinger, K.** (2015). *CSinParallel: 2014-2015 Evaluation Report* (NSF). Unpublished evaluation report submitted to the Project Leadership at Calvin College, St. Olaf University and Macalster College.

**Riedinger, K.** (2015). *Wipro Science Education Fellowship: 2014-2015 Evaluation Report.* Unpublished evaluation report submitted to Center of Science and Mathematics in Context (COSMIC) at the University of Massachusetts Boston.

Weiss, S., & **Riedinger, K.** (2015). *Minotaur Mazes Exhibit Evaluation Report.* Unpublished evaluation report submitted to Minotaur Mazes Traveling Exhibits.

**Riedinger, K.,** & Heil, D. (2015). *Guiding Implementation of PreK-12: Formative Evaluation Study Highlights.* Unpublished evaluation report submitted to the National Academy of Engineering.

**Riedinger, K.** (2015). *NSTA-ASTC EAGER Project: Resources for STEM Education Practitioners, Front-end Evaluation Report* (NSF). Unpublished evaluation report submitted to the National Science Teachers Association and the Association for Science-Technology Centers.

**Riedinger, K.** (2014). *CSinParallel Year-end Evaluation Report* (NSF). Unpublished evaluation report submitted to the Project Leadership at Calvin College, St. Olaf University and Macalster College.

**Riedinger, K.** (2014). *The Community Collaborative Rain, Hail, and Snow Network (CoCoRaHS), Project Evaluation Report* (NOAA). Unpublished evaluation report submitted to the Colorado Climate Center at Colorado State University.

**Riedinger, K., &** Weiss, S. (2014). *NASA Jet Propulsion Laboratory Museum Alliance Network, Final Evaluation Report*. Unpublished evaluation report submitted to the NASA Museum Alliance.

**Riedinger, K., &** Marallo, L. (2014). *Lane County Content in Context Year-end Evaluation Report* (ODE). Unpublished evaluation report submitted to the University of Oregon and Lane County.

**Riedinger, K.** (2014). *NSTA New Science Teacher Academy Year-End Evaluation Report*. Unpublished evaluation report submitted to the National Science Teachers Association.

**Riedinger, K., &** Weiss, S. (2014). *NASA Jet Propulsion Laboratory Museum Alliance Network, Interim Evaluation Report*. Unpublished evaluation report submitted to the NASA Museum Alliance.

**Riedinger, K.** (2014). *Engineering a Pathway to STEM Front-End evaluation report* (ODE). Unpublished evaluation report submitted to the Foundation for Family Science & Engineering, Central School District in Oregon, and Western Oregon University.

**Riedinger, K.** (2014). *The Community Collaborative Rain, Hail, and Snow Network (CoCoRaHS), Project Evaluation Report* (NSF). Unpublished evaluation report submitted to the Colorado Climate Center at Colorado State University.

**Riedinger, K.** (2014). *Mickelson ExxonMobil Teachers Academy Summative Evaluation Report, 2012-2013 Academy*. Unpublished evaluation report submitted to the National Science Teachers Association.

**Riedinger, K.** (2014). *Mickelson ExxonMobil Teachers Academy Formative Evaluation Report, 2013-2014 Academy*. Unpublished evaluation report submitted to the National Science Teachers Association.

**e. Websites**

Breslyn, W., McGinnis, R., Katz, P., Dai, A., & **Riedinger, K**. (2012). *Drawn to Science Education: Studying Science Teaching and Learning through Drawings.* www.drawntoscience.org.

**f. Professional Development Workshops**

**Riedinger, K.,** & Burns, K. (2018, October). "*Reflecting on Practice."* Invited to co-facilitate a professional development workshop with educators from across the Tennessee region at the Tennessee Aquarium in Chattanooga, Tennessee.

**Riedinger, K.,** & Kubarek, J. (2018, March). "*Evaluation Capacity Building."* Invited to co-facilitate a workshop with zoo staff from the education and animal husbandry departments at Nashville Zoo in Nashville, Tennessee.

**Riedinger, K.** (2016, February). "*Reflecting on Practice."* Invited to co-facilitate a professional development workshop with educators from across the Southeast region at the Virginia Aquarium in Virginia Beach, Virginia.

Taylor, A. & **Riedinger, K**. (2013, March). Next Generation Science Standards Crosscutting Concepts: Scale, Proportion, and Quantity. An online webinar presented to the National Science Teachers Association, Arlington, Virginia.

**Riedinger, K.** (2011, October). "*Fostering learning conversations and visitor interactions in informal science education."* Invited to facilitate a professional development workshop with educators at the Virginia Aquarium in Virginia Beach, Virginia.

## 3. GRANT ACTIVITY

Co-PI: "Revealing Systemic Impacts of a 12-year Statewide Science Field Trip Program." (NSF DRL #1811452). PIs: Leigh Peake (New Knowledge Organization), James Hammerman (TERC), **Kelly Riedinger** (Oregon State University) & Martin Storksdieck (Oregon State University). ($1,792,894, 2018-2022).

Explorer at Large Pilot Implementation Proposal. Bezos Family Foundation. PIs: Josh Bernstein (Little Yud Adventures Inc.), Kathryn Buford (Little Yud Adventures Inc.), Annalies Corbin (PAST Foundation), **Kelly Riedinger** (Oregon State University), Sheli O. Smith (PAST Foundation), & Martin Storksdieck (Oregon State University), (2017-2018).

Leadership Team: Explorer at Large Proposal Planning Grant. Bezos Family Foundation. ($25,000, 2017).

Senior Researcher: "STEM Matters: Investigating the Confluence of Visitor and Institutional Agendas." (NSF DRL #1612729). PIs: John Fraser (New Knowledge Organization), Joe Heimlich (Lifelong Learning Group), & Martin Storksdieck (Oregon State University). ($1,576,685, 2016-2020).

Senior Researcher: "Bringing the Universe to Americas' Classrooms." (NASA Collaborative Agreement Notice #NNX16AD71A). PI: Rachel Connolly (WGBH), & Pegeen Wright (WGBH); Co-PI: Martin Storksdieck (Oregon State University). ($10,000,000, 2016-2021).

Co-PI: "Journal to Catalyze Advances in Formal and Informal STEM Education." National Science Foundation Early Concept Grant for Exploratory Research (NSF EAGER #1420262). PIs: David Evans (NSTA), Margaret Glass (ASTC), & **Kelly Riedinger** (David Heil & Associates, Inc.). ($306,423, 2014-2017).

PI: "The Role of Parent Chaperones During Field Trips to a Marine Science Field Station." PIs: **Kelly Riedinger** & Amy Taylor (University of North Carolina Wilmington). Watson College of Education ($1500, 2012).

Co-PI: "Becoming a meteorologist: Using Inquiry Suitcases to Support Weather and Climate Concepts in the Classroom." PIs: Dennis Kubasko, **Kelly Riedinger** (University of North Carolina Wilmington) & Melinda Wiggins (Forest Hills Global Elementary). Burroughs Wellcome Fund: Promoting Innovation in Science and Mathematics Grant. ($3945, 2012-2013).

## 4. CONSULTING

***Nashville Zoo at Grassmere.*** (2018). Nashville, Tennessee

- Providing consulting services to the education department at Nashville Zoo, in collaboration with Dr. Joy Kubarek of Peer Associates, for building evaluation capacity. This includes a 2-day evaluation capacity building workshop in March 2018 with the education and husbandry staff as well as additional ongoing support.

***Oregon Health & Science University, Department of Pediatrics.*** (2016). Portland, Oregon

- Provided research consulting services to Catalysis LLC. to facilitate the department's strategic planning process including guidance on engagement strategies, data collection, analysis, and interpretation.

***City of Portland, Bureau of Environmental Services.*** (2016). Portland, Oregon

- Provided research consulting services to Catalysis LLC. to facilitate the Bureau's strategic planning process including guidance on engagement strategies, data collection, analysis, and interpretation.

***Virginia Aquarium and Marine Science Center***. (2012-2016). Virginia Beach, Virginia

- Consulted with the senior education specialist, along with the floor programs team, to develop, pilot, implement and evaluate family discussion guides at the aquarium.
- Currently collaborating with education staff to consider issues of accessibility for all visitors, particularly those with cognitive and sensory processing disabilities including children with Autism Spectrum Disorder.

***Coca Cola Space Science Center***. (2015). Columbus, Georgia

- Provided consulting services to develop an evaluation study to measure formative and summative outcomes for the outreach partnership program with Muscogee County Schools.

## 5. PROFESSIONAL SERVICE

### a. Committee Membership

Advisory Board Committee, *Connected Science Learning Journal.*
*National Science Teachers Association.* 2017-present.

Evaluation and Measurement Task Force Member.
*Center for the Advancement of Informal Science Education (CAISE).* 2017-present.

Strand 6 (Informal Science Education) Co-Coordinator
*NARST.* 2016-2018.

Co-Chair, Education Research Committee
*National Marine Educators Association*. 2015-2016.

Informal Science Education Coordinator, 2016 Portland Area Conference
*National Science Teachers Association*. 2015-2016.

Conference Evaluation Committee Member

*National Marine Educators Association*. 2015.

Strand Coordinator, 2014 Richmond Regional Conference on Informal Science Education
*National Science Teachers Association.* 2013-2014.

Informal Science Education Committee
*National Science Teachers Association.* 2013-2016.

Watson College of Education Youth Task Force.
*University of North Carolina Wilmington, Watson College of Education.* 2012.

Elementary Education Graduate Program Committee.
*University of North Carolina Wilmington, Watson School of Education.* 2011-2013.

Watson College of Education Diversity Committee & Task Force.
*University of North Carolina Wilmington, Watson College of Education.* 2011-2012.

Outstanding Paper Award Committee.
*National Association for Research in Science Teaching (NARST),* March 2011-March 2012.