

## **RONALD W. RINEHART**

University of Northern Iowa

Department of Educational Psychology, Foundations & Leadership

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### **ACADEMIC DEGREES**

Rutgers University, Graduate School of Education 2017

Ph.D. in Education, Advisors: Dr. Clark A. Chinn & Dr. Ravit Golan Duncan

Dissertation: Promoting Students' Epistemic Cognition and Conceptual

Learning through the Design of Science Learning Environments

Rutgers University, Graduate School of Education 2014

M.A. in Education, Advisor: Dr. Clark A. Chinn

Oregon State University, Geosciences Department 2008

M.S. in Geography (GIS), Advisor: Dr. Ron Doel

Oregon State University, College of Forestry 2004

B.S. in Natural Resources specializing in GIS

### **POSITIONS HELD**

University of Northern Iowa, Dept. of Educational Psychology, Foundations, & Leadership Studies

Department Head 2023–Present

Associate Professor 2023–Present

Assistant Professor\* 2017–2023

Instructor 2016–2017

**\*University Outstanding Teaching Award 2021**

Rutgers University, Graduate School of Education

Instructor, 5-Year Teacher Preparation Program 2013–2016

Graduate Research Assistant, NSF-funded classroom based research 2011–2013

Promoting Reasoning and Conceptual Change in Science Project

Teaching Assistant, Educational Psychology 2010–2011

*Educational Psychologist* (a Taylor and Francis journal)

Editorial Assistant 2012–2015

Don Estridge High Tech Middle School, School District of Palm Beach County, FL

7<sup>th</sup> and 8<sup>th</sup> grade science teacher and gifted student specialist\* 2006–2010

**\*Rotary Club Teacher of the Year 2007 & 2010**

Oregon State University, NASA Oregon Space Grant Consortium

Research Fellow, High-Altitude Balloon Launch Project 2004–2006

Oregon State University, Department of Geosciences

Teaching Assistant 2004–2006

## **PEER-REVIEWED PUBLICATIONS**

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- Rinehart, R. W.** & Kuhn, M. (2023). Building better questions: Three dialogic strategies to promote students' scientific thinking. *Science and Children*, 60(3), 68-70.
- Rinehart, R. W.**, Olsen, B., Freese, L., & Kuhn, M. (2021). Mission cognition: Fifth-grade students undertake a mission to Mars. *Science & Children*, 58(3), 43-49.
- Rinehart, R. W.**, Kuhn, M., & Milford, T. (2020). The relationship of epistemic cognition and dialogic feedback in elementary and middle school science classrooms. *Research in Science & Technological Education*, 1-18. DOI: 10.1080/02635143.2020.1799779
- Rinehart, R. W.** (2020). They really used to think that? Evaluating current and historical claims in geology using adapted primary scientific literature. *The Science Teacher*, 88(1), 37-45.
- Chinn, C. A., Duncan, R. G., & **Rinehart, R. W.** (2018). Epistemic design: Design to promote transferable epistemic growth in the PRACCIS project. In E. Manalo, Y. Uesaka, & C. A. Chinn (Eds.), *Promoting spontaneous use of learning and reasoning strategies: Theory, research, and practice for effective transfer* (pp. 242-259). New York: Routledge.
- Rinehart, R. W.**, Duncan, R. G., Chinn, C. A., Atkins, T. A., & DiBenedetti, J. (2016). Critical design decisions for successful model-based inquiry in science classrooms. *International Journal of Designs for Learning*, 7(2), 17-40.
- Rinehart, R. W.**, Duncan, R. G., & Chinn, C. A. (2014). A scaffolding suite to support evidence-based modeling and argumentation. *Science Scope*, 38(4), 70-77.
- Lundblad, E., Wright, D. J., Miller, J., Larkin, E. M., **Rinehart, R.**, Battista, T. ... & Donahue, B. T. (2006). A benthic terrain classification scheme for American Samoa. *Marine Geodesy*, 29(2), 89-111.

## **EDITOR-REVIEWED JOURNAL ARTICLES**

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- Chinn, C. A., & **Rinehart, R. W.** (2016). Commentary: Advances in research on sourcing—source credibility and reliable processes for producing knowledge claims. *Reading and Writing*, 29(8), 1701-1717.

## **EDITOR-REVIEWED BOOK CHAPTERS**

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- Chinn, C. A., & **Rinehart, R. W.** (2016). Epistemic cognition and philosophy: Developing a new framework for epistemic cognition. In W. A. Sandoval, J. A. Greene, & I. Braten (Eds.), *Handbook of epistemic cognition* (pp. 460-478). New York: Routledge.
- Chinn, C. A., **Rinehart, R. W.**, & Buckland, L. A. (2014). Epistemic cognition and evaluating information: Applying the AIR model of epistemic cognition. In D. N. Rapp & J. L. G. Braasch (Eds.), *Processing inaccurate information* (pp. 425-453). Cambridge, MA: MIT Press.

Chinn, C. A., Duncan, R. G., Dianovsky, M., & **Rinehart, R.** (2013). Promoting conceptual change through inquiry. In S. Vosniadou (Ed.), *International handbook of research on conceptual change* (pp. 539-559). New York: Routledge.

## **GRANTS AND AWARDS**

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Forsyth, B., **Rinehart, R. W.**, Freedman, S., Gabriele, T., Joram, E. (2020). Deepening capacity for cultivating intellectual and moral virtues in pre-service teachers at the University of Northern Iowa. *Kern Family Foundation*. \$150,000.

**PI Rinehart, R. W.** (2020). Promoting Reasoning About Scientific Evidence. *University of Northern Iowa's College of Education*. \$4,000.

**PI Rinehart, R. W.** (2019-2020). Preservice Educator Training at the Space Exploration Educators Conference. *NASA Iowa Space Grant Consortium*. \$5,000.

**PI Rinehart, R. W.** (2019-2020). Mission to Mars. *University of Northern Iowa's Office of the Provost*. \$1,500.

**PI Rinehart, R. W.** (2018-2020). Fostering Argumentation and Scientific Reasoning. *University of Northern Iowa's Office of Research and Sponsored Programs*. \$4,996.  
Peer-Reviewed: Award rate: 37.5% of applications were successful.

**PI Rinehart, R. W.** (2018-2019). Preservice Educator Training at the Space Exploration Educators Conference. *NASA Iowa Space Grant Consortium*. \$5,000.

## **WORKS IN PROGRESS**

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Rinehart, R. W. (In preparation). Simulations and science education: A curious tale of epistemic substitutes.

Joram, E., Rinehart, R. W., & Gabriele, A. J. (In preparation). How teachers' valuing of student success guides their use of published research: The role of epistemic cognition in teachers' research engagement.

Rinehart, R. W. (In preparation). Making use of adapted primary literature to learn about colony collapse disorder.

## **PEER-REVIEWED SYMPOSIUM ORGANIZER**

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Hendriks, F., & **Rinehart, R. W.** (2017, September). *Dealing with health information: Evaluation of scientific evidence and expert sources*. Symposium for the 17<sup>th</sup> Biennial International Meeting of the European Association for Research on Learning and Instruction, Tampere, Finland.

## **WORKSHOP ORGANIZER**

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Chinn, C. A., Duncan, R. G., Barzilai, S., & **Rinehart, R. W.** (2018, June). *Analysing epistemic growth: Applying the AIR model to promote and analyse epistemic cognition*. Workshop for the 13<sup>th</sup> Biennial Meeting of the International Conference of the Learning Sciences, London, United Kingdom.

## **CONFERENCE PRESENTATIONS**

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**Rinehart, R. W.** (2023, January). *Simulations and Science Education: A Curious Tale of Epistemic Substitutes*. Paper presented to the annual meeting of the Association for Science Teacher Education, Salt Lake City, Utah.

**Rinehart, R. W.**, Olsen, B., & Freese, L. (2022, October). *Mission Cognition: Students undertake a mission to Mars*. Two-hour workshop presented at the annual meeting of the Iowa Talented And Gifted Association, Des Moines, Iowa.

**Rinehart, R. W.**, Kuhn, M., & Milford, T. M. (2022, January). *The Role of Responsibilist Intellectual Virtues in Science Learning*. Paper presented at the annual meeting of the National Association of Research in Science Teaching, Vancouver, BC, Canada.

Kuhn, M., **Rinehart, R. W.**, & Milford, T. M. (2022, January). *A Storyline Unit Anchored in Phenomenon for Elementary Preservice Teachers and an Evaluation of their Pre / Post Pedagogical Views*. Paper presented at the annual meeting of the Association for Science Teacher Education, Greenville, S.C.

**Rinehart, R. W.**, Olsen, B., & Freese, L. (2021, October). *Mission Cognition: Students undertake a mission to Mars*. Presented at the annual meeting of the Iowa Talented And Gifted Association, Des Moines, Iowa.

Kuhn, M. & **Rinehart, R. W.** (2021, October). *Introducing the Revised ASSIST Approach*. Iowa Science Teachers Section - Iowa Council of Teachers of Mathematics (ISTS-ICTM) Fall Conference, West Des Moines, Iowa.

**Rinehart, R. W.**, Olsen, B., Freese, L., & Kuhn, M. (2021, February). *Mission Cognition: Students undertake a mission to Mars*. Iowa Talented and Gifted Association. (Recorded talk for virtual conference, in-person cancelled due to COVID).

Kuhn, M., **Rinehart, R.**, Pepanyan, M., Milford, T. M., & McDermott, M. (2020, Accepted). *Elementary Students' Approaches to Uncertainty Resolution in Classrooms with Contrasting Methods for Managing Uncertainty*. American Educational Research Association (AERA). San Francisco, CA. (Conference cancelled due to COVID-19).

Kuhn, M. & **Rinehart, R.** (2019, October). *Improving Students' Science and Engineering Practices (SEP) by focusing on Executive Function Skill Development*. Iowa Science Teachers Section - Iowa Council of Teachers of Mathematics (ISTS-ICTM) Fall Conference, West Des Moines, Iowa.

Kuhn, M., **Rinehart, R. W.**, & Milford, T. M. (2019, April). *The role of dialogic feedback and epistemic cognition in promoting evidence-based argumentation in science*. Presented at the 2019 annual meeting of the American Educational Research Association, Toronto, Canada.

**Rinehart, R. W.**, Chinn, C. A., & Duncan, R. G. (2017, September). *The body of evidence: The role of evidence evaluation in science classes*. Presented at the 17<sup>th</sup> biennial international meeting of the European Association for Research on Learning and Instruction, Tampere, Finland.

Chinn, C. A., Duncan, R. G., Hung, L. C. C., & **Rinehart, R. W.** (2016, April). *Epistemic criteria and reliable processes as indicators of argument quality in science students' argumentation*. Paper presented at the annual meeting of the American Educational Research Association, Washington D.C.

**Rinehart, R. W.**, Chinn, C. A., & Duncan, R. G. (2015, August). *Bad evidence makes for good learning: An analysis of science students' argumentation*. Paper presented at the 16<sup>th</sup> biennial international meeting of the European Association for Research on Learning and Instruction, Limassol, Cyprus.

Chinn, C. A., **Rinehart, R. W.**, & Duncan, R. G. (2015, August). *Conceptual change through inquiry and argumentation: Successes and challenges*. Paper presented at the 16<sup>th</sup> biennial international meeting of the European Association for Research on Learning and Instruction, Limassol, Cyprus.

**Rinehart, R. W.**, Castro-Faix, M., Duncan, R. G., & Chinn, C. A. (2015, April). *Learning inheritance through modeling in middle school life science classes*. Paper presented at the annual meeting of the National Association for Research in Science Teaching, Chicago, IL.

Chinn, C. A., Duncan, R. G., **Rinehart, R. W.**, & Dianovsky, M. (2014, November). *Learning to reason through epistemic criteria*. Presented at the Japanese Association of Educational Psychology.

**Rinehart, R. W.**, Chinn, C. A., Duncan, R. G., & Castro-Faix, M. (2014, August). *Conceptual change through model-based inquiry in genetics for middle school science students*. Paper presented at the 9<sup>th</sup> Annual International Conference on Conceptual Change, sponsored by the European Association for Research on Learning and Instruction, Bologna, Italy.

Chinn, C. A., Duncan, R. G., & **Rinehart, R. W.** (2014, June). *Epistemic criteria: How far does general knowledge get you?* Paper presented at the 11<sup>th</sup> International Conference of the Learning Sciences, Boulder, CO.

**Rinehart, R. W.**, Duncan, R. G., & Chinn, C. A. (2014, April). *Emphasizing evidence evaluation in model-based inquiry*. Paper presented at the annual meeting of the American Educational Research Association, Philadelphia, PA.

Chinn, C. A. & **Rinehart, R. W.** (2014, April). *Student reasoning about contradictory data*. Paper presented at the annual meeting of the American Educational Research Association, Philadelphia, PA.

**Rinehart, R. W.**, Castro, M. F., Duncan, R. G., & Chinn, C. A. (2014, January). *Scaffolding student coordination of evidence and models in genetics*. Paper presented at the 7th Annual Subway Summit on Cognition and Education Research, New York, NY.

**Rinehart, R. W.** & Chinn, C. A. (2013, August). *Student use of anomalous authentic scientific data in the face of competing explanatory frameworks*. Poster presented at the 15<sup>th</sup> biennial international meeting of the European Association for Research on Learning and Instruction, Munich, Germany.

**Rinehart, R.**, Duncan, R. G., Chinn, C. A., & Dianovsky, M. (2013, June). *Digital evidence and scaffolds in a model-based inquiry curriculum for middle school science*. Poster presented at the 10<sup>th</sup> International Conference on Computer Supported Collaborative Learning, Madison, WI.

Dianovsky, M., Chinn, C. A., Duncan, R. G., & **Rinehart, R.** (2013, May). *Middle school students' reasoning about the relations between models and evidence*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco.

Dianovsky, M., Duncan, R. G., **Rinehart, R.**, & Chinn, C. A. (2013, April). *Using evidence to evaluate multiple competing models*. Paper presented at the annual meeting of the National Association for Research in Science Teaching, Puerto Rico.

Dianovsky, M., Chinn, C. A., Duncan, R. G., Drescher, C., Goff, A., & **Rinehart, R. W.** (2013, April). *Middle-school students' reasoning about the relations between models and evidence*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.

Dianovsky, M., **Rinehart, R. W.**, Duncan, R. G., & Chinn, C. A. (2013, January). *Promoting scientific reasoning through public epistemic criteria in middle-school science classes*. Paper presented at the 6th Annual Subway Summit on Cognition and Education Research, New York, NY.

Chinn, C. A., **Rinehart, R.**, Drescher, C., Duncan, R. G., Dianovsky, M., & Buckland, L. A. (2012, April). *Standards for evaluating evidence in arguments: The problem of underdetermination*. Paper presented at the annual meeting of the American Educational Research Association, Vancouver, BC, Canada.

**Rinehart, R. W.** & Chinn, C. A. (2011, May). *Give me one good reason why: Insights into reasoning about contradictory information in science*. Poster presented at the Rutgers Graduate School of Education Spring Research Symposium, New Brunswick, NJ.

## **CONFERENCE PROCEEDINGS**

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Chinn, C. A., Duncan, R. G., & **Rinehart, R. W.** (2014). Epistemic criteria: How far does general knowledge get you? In J. L. Polman, E. A. Kyza, D. K. O'Neill, I. Tabak, W. R. Penuel, A. S. Jurow, K. O'Connor, T. Lee., & L. D'Amico (Eds.), *Learning and becoming in practice* (pp. 1194-1195). Boulder, CO: International Conference of the Learning Sciences.

**Rinehart, R.**, Duncan, R. G., Chinn, C. A., & Dianovsky, M. T. (2013). Digital evidence and scaffolds in a model-based inquiry curriculum for middle school science. In N. Rummel, M. Kapur, M. Nathan, & S. Puntambekar (Eds.), *To see the world and a grain of sand: Learning across levels of space, time and scale* (pp. 341-342). Madison, WI.: International Conference of the Learning Sciences.

**Rinehart, R.**, Wright, D., Murphy, J., Cary-Kothera, L., Lundblad, E., & Larkin, E. (2005). 3-D benthic terrain mapping and modeling in American Samoa. *Abstracts of the Association of American Geographers Annual Meeting*. Denver, CO.

Wright, D. J., Lundblad, E., Larkin, E., **Rinehart, R.**, & Murphy, J. (2005). Benthic terrain modeling algorithms and web distribution. *Abstracts of the Association of American Geographers Annual Meeting*. Denver, CO.

**Rinehart, R.**, Wright, D. J., Lundblad, E., & Larkin, E. (2004). ArcGIS 8.x benthic terrain modeler: Analysis in American Samoa. *Proceedings of the 24th ESRI International User Conference*. San Diego, CA, Paper 1433.

**Rinehart, R.**, & Wright, D. J. (2004). Benthic habitat classification and 3-D visualizations, derived from acoustic multibeam data, for Vatia Bay, American Samoa. *Abstracts of the Association of American Geographers Centennial Meeting*. Philadelphia, PA, Session 4406, online program and CD-ROM.

## **CURRICULA ADOPTED**

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### Mission to Mars

Mission to Mars officially adopted by the 5<sup>th</sup> and 6<sup>th</sup> grade TAG program in the Cedar Falls Community School District 2021–2022

## **PROFESSIONAL DEVELOPMENT**

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Space Exploration Educators Conference at NASA's Space Center Houston	2020
Space Exploration Educators Conference at NASA's Space Center Houston	2019
University of Northern Iowa Grant Writing Workshop	2019

## **UNIVERSITY COURSES TAUGHT**

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University of Northern Iowa

Department of Educational Psychology, Foundations, and Leadership Studies

- Learning and Motivation in Classroom Contexts
- Measurement and Research: Educational Research

University of Northern Iowa

College of Humanities, Arts, and Sciences: Science Education Masters Program

- Techniques for Science Teachers: We've been doing it wrong!  
Insiders, Outsiders, and Scientific Reasoning

Rutgers University

Department of Educational Psychology

- Educational Psychology: Principles of Classroom Learning
- Assessment and Measurement for Math
- Assessment and Measurement for Science

Rutgers University

Department of Learning and Teaching

- Demonstrations and Technology in Science Education
- Biology and Society

Oregon State University Teaching Assistant

Geosciences Department

- Geographic Information Systems
- Environmental Conservation
- Geography of the Non-Western World

## **PROFESSIONAL SERVICE**

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Ad hoc reviewer for <i>Journal of the Learning Sciences</i>	2023
Ad hoc reviewer for <i>Association for Science Teacher Education</i>	2022
Ad hoc reviewer for <i>Psychology Learning &amp; Teaching</i>	2020
Ad hoc reviewer for <i>Thinking Skills and Creativity</i>	2019
Ad hoc reviewer for <i>Instructional Science</i>	2019
Grant Reviewer for <i>Iowa Space Grant Consortium's 2019 Partner Schools</i>	2018
Reviewer for an edited book <i>Deeper Learning, Communicative Competence, and Critical Thinking: Innovative, Research-Based Strategies for Development in 21st Century Classrooms</i>	2018
Ad hoc reviewer for <i>Thinking Skills and Creativity</i>	2017
Ad hoc reviewer for <i>International Journal of Designs for Learning</i>	2016
Ad hoc reviewer for <i>National Association for Research in Science Teaching</i>	2014



### **UNIVERSITY OF NORTHERN IOWA SERVICE**

Dept. of Educational Psychology, Foundations, & Leadership Studies, Faculty Chair	2022–2024
College of Education, Dean’s Advisory Council	2021–2024
Dept. of Educational Psychology, Foundations, & Leadership Studies, Representative for the University of Northern Iowa Educator Preparation Program Transformation Professional Sequence Focused Working Group	2022–2023
University of Northern Iowa, Virtuous Educator Speaker Series Co-organizer	2020–2021
Dept. of Educational Psychology, Foundations, & Leadership Studies Standards and Criteria Committee	2020–2021
UNI Office of Research and Sponsored Programs, Capacity Building Grant Reviewer	2019
College of Education, Summer Fellowship Reviewer	2019
College of Education, Mission to Mars Workshop for Pre-Service Teachers	2019
Midwest GLOBE for Middle School Science Project Poster Reviewer	2019
Department of Curriculum and Instruction, Elementary Education Search Committee	2018–2019
College of Humanities, Arts, and Sciences, Science Education Graduate Faculty	2018–present
College of Education, Educational Psychology Website Re-Design Committee	2018–2019
University of Northern Iowa Graduate Faculty	2017–present
Dept. of Educational Psychology, Foundations, & Leadership Studies <i>Learning Team</i> Leader	2017–present
Dept. of Educational Psychology, Foundations, & Leadership Studies Vice-Chair of the Faculty	2017–2020
Educational Psychology & Foundations/Secondary Ed. Sub-committee member College of Education Scholarship Committee	2016–2019
University of Northern Iowa, Teacher Education Secondary Senate Alternate	2016–present
College of Education, Professional Sequence Advisory Committee Learning Team Liaison	2017–2018

### **RUTGERS UNIVERSITY SERVICE**

Graduate School of Education, Student Activities Committee	2010–2013
Graduate School of Education, Learning Sciences Brown Bag Coordinator	2012–2013
Graduate School of Education, Executive Committee	2011–2012

### **OREGON STATE UNIVERSITY SERVICE**

Geosciences Department, Faculty-Student Liaison	2004–2005
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### **MASTERS THESES**

University of Northern Iowa College of Humanities, Arts, and Sciences Casey Giraud – Masters of Science Education Paper – Topic TBD Chair Dr. Ron Rinehart	2022–2026
University of Northern Iowa College of Humanities, Arts, and Sciences Whitney McWilliams Masters of Science Education Paper – Committee Member “ <i>Enhancing scientific literacy through attention to argumentation as a disciplinary literacy practice as a disciplinary literacy practice</i> ” Chair Dr. Dawn Del Carlo Reader: Dr. Ron Rinehart	2018–2021

University of Northern Iowa College of Humanities, Arts, and Sciences 2018–2020  
Betsy Lemus Masters of Science Education Paper – Committee Member  
*“Using Adapted Primary Literature to Enhance Argumentation and Reasoning in Middle School Students”*  
Chair Dr. Jody Stone  
Reader: Dr. Ron Rinehart

## **TEACHING CERTIFICATIONS**

Pennsylvania Professional Certificate Level 1 Biology 7-12 | Mid-Level Science 7-9  
Environmental Ed. PK-12 | Earth & Space Science 7-12

Florida Professional Educator’s Certificate (expired) Biology 6-12 | General Science 5-9  
Earth Space Science 6-12 | Gifted Endorsement

## **PROFESSIONAL DEVELOPMENT LEADERSHIP**

Mission to Mars 2019–2022  
Created a new curriculum centered on merging the Next Generation Science Standards Science and Engineering Practices with Space Exploration Education to create an engaging and unique experience where elementary students plan and carry out a Mission to Mars. This involves coding robots, using satellite remote sensing imagery, computational thinking in the form of route planning, and planning and carrying out geologic investigations on another planet. This was offered as pre-service and in-service teacher professional development.

University of Northern Iowa - Center for Excellence in Teaching and Learning 2017  
Presented an invited professional development talk titled “The Pedagogical Role of Evidence in Changing Students’ Minds”

University of Northern Iowa - Integrating Crosscutting Concepts in Iowa Science Classrooms (ICCISC) 2016  
Provided support for teachers integrating inquiry oriented methods into their science classrooms while developing students’ competence with major crosscutting concepts, as defined by the Next Generation Science Standards.

Rutgers Institute for Improving Student Achievement (RIISA) 2013 & 2015  
Presented an invited professional development talk on model-based inquiry in science for middle school science teachers. Worked with small groups of teachers to develop their own model-based inquiry units in science.

Rutgers PRACCIS Graduate Research Assistant 2011–2013  
Designed model-based inquiry science materials for middle school life sciences  
Assisted with the planning and implementation of training for middle school teachers participating in the research project

Don Estridge Middle School Learning Team Leader for 8<sup>th</sup> Grade Science 2008–2010  
Increased the team’s capacity to modify instruction based on assessment data  
Developed and deployed a technology centered approach to science labs

Don Estridge Middle School Professional Development Team	2007–2010
Increased technology skill capacity in teachers of all subject areas by creating seminars for classroom integration of ExamView, Edline and SMART Board	

## **AWARDS**

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University of Northern Iowa Outstanding Teaching Award	2021
University of Northern Iowa College of Education Summer Research Fellow	2018
LMU Munich REASON Spring School Travel Award	2015
AERA Division C Graduate Student Seminar	2014
ICLS Doctoral Consortium	2014
Rotary Club Teacher of the Year for Don Estridge Middle School	2009–2010
Rotary Club Teacher of the Year for Don Estridge Middle School	2006–2007
NASA Oregon Space Grant Graduate Research Fellowship	2004–2006
Oregon State University Ronald E. McNair Scholar	2003–2004
Oregon State University Shugart Scholar	2003–2004
Oregon State University Duncan Scholar	2002–2003

## **MEMBERSHIPS**

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American Educational Research Association – Division C  
European Association for Research on Learning and Instruction  
    EARLI SIG 3 Conceptual Change  
    EARLI SIG 26 Argumentation  
International Society of the Learning Sciences  
National Association for Research in Science Teaching