

# JUDITH A. COOPER-WAGONER

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Department of Teaching, Learning, & Sociocultural Studies  
College of Education  
University of Arizona  
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## EDUCATION

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- May 2021            **Ph.D. Teaching, Learning, & Sociocultural Studies**  
University of Arizona  
Major: Science Education  
Dissertation: *Elementary Teachers Noticing, Interpreting, and Responding: Students' Science Toolkits for SenseMaking*  
Advisor: Kristin L. Gunckel
- May 2002            **M.S. Educational Policy & Leadership**  
Northern Arizona University
- December 1998    **B.A.E. Bachelor of Arts in Education**  
University of Arizona

## TEACHING EXPERIENCE

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### University Teaching

- Fall 2021-present    Lecturer  
Science and Health Methods (TLS 324)  
University of Arizona, Department of Teaching, Learning, & Sociocultural Studies
- Spring 2018 -  
Spring 2021            Instructor of Record  
Science and Health Methods (TLS 324)  
University of Arizona, Department of Teaching, Learning, & Sociocultural Studies

### Environmental Education

- 2016 – 2018            Green Fund Project Leader, University of Arizona
- 2015 – 2016            Teaching Intern, Cooper Center for Environmental Learning  
University of Arizona

### In-Service Teacher Professional Development

- 2005 – 2017            *Teacher Evaluation System*, Professional Development for District Teachers, Marana Unified School District, Tucson, Arizona

2001 – 2003      *Sheltered English Instruction (SIOP)*, Professional Development for District Teachers, Marana Unified School District, Tucson, Arizona

### **Pre-K-12 Classroom Teaching**

2012 – 2015      4<sup>th</sup> Grade Classroom Teacher,  
Ironwood Elementary, Tucson, Arizona

2006 – 2011      1<sup>st</sup>/2<sup>nd</sup> Grade Classroom Teacher,  
Ironwood Elementary, Tucson, Arizona

1999 – 2005      1<sup>st</sup> Grade Classroom Teacher,  
Ironwood Elementary, Tucson, Arizona

1990- 1993      Preschool Teacher, Mammoth San Manuel School District,  
San Manuel, Arizona

### **Teacher Mentor and Supervisor**

2010              Cooperating Teacher, Prescott College, Tucson, Arizona

2005 – 2008      Induction/Instructional Coach, Marana Unified School District,  
Tucson, Arizona

2006  
2008              Cooperating Teacher, Northern Arizona University Distance  
Learning, Tucson, Arizona

2011 – 2012

2000 – 2003      Cooperating Teacher, University of Arizona, Tucson, Arizona  
2005  
2007

### **Community College Teaching**

2004 – 2006      Adjunct Professor  
Critical Issues in Education (EDU 268)  
Introduction to Education (EDU 200)  
Teacher Preparation Program, Pima Community College, Tucson,  
Arizona

## **RESEARCH EXPERIENCE**

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### **Research Assistantships**

2016 – 2019      Comp Hydro STEM+Computing  
*Graduate Research Assistant*  
PI: John Moore, Colorado State University

NSF-funded project investigating the goals of integrating the use of computational approaches in K-12 STEM teaching and learning as well as the urgent issue of clean water facing society.

- 2019 Evaluation of K-12 STEM Lessons at Biosphere 2  
*Graduate Research Assistant*  
PI: Kevin Bonine, University of Arizona  
Project aimed to gain a better understanding if and how there were differences in content knowledge, motivation for STEM learning, and STEM identity for K-12 students that visit Biosphere 2.
- 2018 Western Regional Noyce Alliance  
*Graduate Research Assistant*  
PI: Lawrence Horvath, San Francisco State University  
NSF funded study investigating how pre-service science and math teachers increased in their content and pedagogical content knowledge as a result of participating in a two week summer workshop aimed to increase their content knowledge and knowledge of effective instructional practices for working with K-12 students in high needs settings.

#### PUBLICATIONS

Gunckel, K. L., Covitt, B., Love, G., **Cooper-Wagoner, J.**, & Moreno, D. L., (Accepted for publication). Unplugged to plugged-In: Teaching computational thinking using models of groundwater contamination. *The Science Teacher*.

#### HONORS AND AWARDS

- 2021 Teaching Learning Sociocultural Studies Tuition Scholarship, University of Arizona
- 2020 Anita Price Scholarship
- 2020 Delores R. Kaith Scholarship
- 2020 Teaching Learning Sociocultural Studies Tuition Scholarship, University of Arizona
- 2019 Everett L. and Marian G. Holden Scholarship
- 2018 College of Education, University of Arizona Graduate College Fellowship
- 2017 Erasmus Circle of Graduate Scholars
- 2017 College of Education, University of Arizona Scholarship
- 2017 Phi Delta Kappa Scholarship
- 2016 College of Education, University of Arizona Scholarship

2016	University of Arizona, College of Education, Teacher Teaching Education Fellowship
2015	Everett L. and Marian G. Holden Scholarship
2015	College of Education, University of Arizona Scholarship
1998	Pi Lambda Theta: International Honor Society and Professional Association in Education
1997	Golden Key National Honor Society
1996	Phi Theta Kappa: International Scholastic Order of the Two-Year College

### SCHOLARLY PRESENTATIONS

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Gunckel, K. L., Moreno, D. L., Covitt, B. A., Caplan B., **Cooper-Wagoner, J. A.**, Moore, J. C. & Berkowitz, A. R., (2020, March). *Intertwining Three Dimensions: Levels of Performance for Computational Thinking While Using Models of Hydrologic Systems*. Poster presented at the International NARST Conference, Portland, OR. (Conference canceled)

**Cooper-Wagoner, J. A.** & Gunckel, K. L., (2019, March). *Teacher perspectives of the affordances and challenges of teaching computational thinking*. Paper presented at the International NARST Conference, Baltimore, MD.

**Cooper-Wagoner, J. A.** & Gunckel, K. L., (2019, February). *Teachers' perspectives of teaching computational thinking*. Paper presented at the University of Arizona, Annual Teaching, Learning & Sociocultural Graduate Student Colloquy, Tucson, AZ.

Gunckel, K. L., **Cooper-Wagoner, J. A.**, Covitt, B. A., Love, G., Boone, R., & Berkowitz, A., (2018, March). *Student ideas about computational thinking concepts when learning about modelling hydrologic systems*. Paper presented at the International NARST Conference, Atlanta, GA.

**Cooper-Wagoner, J. A.**, (2018, February). *Dissertation Diary: Dilemmas, Internal Discourse, and Directionality*. Poster presented at the University of Arizona, Annual Teaching, Learning & Sociocultural Graduate Student Colloquy, Tucson, AZ.

**Cooper-Wagoner, J. A.**, (2017, February). *Open Highways and Restricted Freeways: Accessing Argumentation Discourse*. Poster presented at the University of Arizona, Graduate & Professional Student Council Student Showcase, Tucson, AZ.

**Cooper-Wagoner, J. A.**, (2017, February). *Open Highways and Restricted Freeways: Accessing Argumentation Discourse*. Poster presented at the University of

Arizona, Annual Teaching, Learning & Sociocultural Graduate Student Colloquy, Tucson, AZ.

**Cooper-Wagoner, J. A.**, (2016, February). *Teacher Perceptions of Nonformal Learning Environment*. Paper presented at the University of Arizona, Annual Teaching, Learning & Sociocultural Graduate Student Colloquy, Tucson, AZ.

#### INVITED PRESENTATIONS

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- 2021                    Presenter, Elementary Science Teaching Strategies for School of Teacher Education, Nanjing Xiaozhuang University, University of Arizona
- 2019                    Graduate Panelist, Dissertation Seminar, University of Arizona
- 2019                    Presenter, Science Demonstration Lesson for Visiting Undergraduates from Nanjing Xiaozhuang University, University of Arizona
- 2019                    Graduate Panelist, Teaching, Language, Sociocultural Studies Graduate Orientation, University of Arizona
- 2018                    Presenter, Engineering Design at Biosphere 2 STEM Drone Racing League, University of Arizona
- 2018                    Graduate Panelist, Teaching, Language, Sociocultural Studies Graduate Orientation, University of Arizona
- 2017                    Guest Speaker, Erasmus Circle Scholars Reception, College of Education, University of Arizona
- 2017                    Graduate Panelist, Teaching, Language, Sociocultural Studies Graduate Orientation, University of Arizona

#### GRANTS

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- 2018                    *College of Education Graduate Student Travel Award*, University of Arizona. \$450.
- 2018                    *Teaching Learning Socioculture Studies College of Education Travel Award*, University of Arizona. \$300.
- 2013                    *Nonfiction leveled text sets*, Marana Foundation for Educational Excellence. \$1,500.

#### SERVICE

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- 2021                    Reviewer Conference

American Educational Research Association National Association  
for Research in Science and Teaching (NARST)

- 2020 Zoom with a Wildcat Instructor, University of Arizona
- 2020 – 2019 Graduate Student Representative, Science Education Search  
Committee, University of Arizona
- 2019 Committee Member, Discovery Research PreK-12 (DRK-12)  
Elementary Science Teacher Education Proposal, Michigan State  
University
- 2018 – 2019 Travel Grants Reviewer, Graduate and Professional Student  
Council, University of Arizona
- 2017 – 2018 Guest Liaison, Teaching Learning Sociocultural Studies, Colloquy,  
University of Arizona
- 2016 Travel Grants Reviewer, Graduate and Professional Student  
Council, University of Arizona

#### PROFESSIONAL AFFILIATIONS

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National Association for Research in Science Teaching (NARST)

Arizona Science Teachers Association (ASTA)

American Educational Research Association (AERA)

National Science Teacher Educators (NSTA)