

MARCY B. WOOD

University of Arizona
College of Education
Department of Teaching, Learning, and
Sociocultural Studies
1430 East Second Street
Tucson, Arizona 85721

Phone: 520-626-8700
Fax: 520-621-7877
Email: mbwood@email.arizona.edu

EDUCATION

Ph.D. **Michigan State University**, Curriculum, Teaching, and Educational Policy, 2008
Emphasis in Teacher Education with a focus on Elementary Mathematics
Teaching Certificate, **University of New Mexico**, 2000
Elementary K-8 Certification
M.A. **University of New Mexico**, Elementary Education, 1999
Emphasis in Science Education
B.A. **Earlham College**, Biology, 1990

CHRONOLOGY OF EMPLOYMENT

Department Head <i>Department of Teaching, Learning, and Sociocultural Studies</i> University of Arizona	2019 - present
Director of Graduate Students <i>Department of Teaching, Learning, and Sociocultural Studies</i> University of Arizona	2017 – 2019
Associate Professor of Mathematics Education <i>Department of Teaching, Learning, and Sociocultural Studies</i> University of Arizona Affiliation: University of Arizona Institute for LGBT Studies	2014 – present
Assistant Professor of Mathematics Education <i>Department of Teaching, Learning, and Sociocultural Studies</i> University of Arizona	2008 – 2014
Research Assistant <i>Department of Teacher Education</i> , Michigan State University	2002 – 2007
Teaching Assistant <i>Department of Teacher Education</i> , Michigan State University	2003 – 2006
Elementary Classroom Teacher (Grades 3 and 4) <i>Albuquerque Public Schools</i> , Albuquerque, NM	1999 – 2002
Teaching Assistant <i>Natural Sciences Program</i> , University of New Mexico	1997 – 1998
Informal Math and Science Educator New Mexico Museum of Natural History & Science Albuquerque Biological Park, NM Lovelace Respiratory Research Institute, Albuquerque, NM Creative Learning Center, Albuquerque, NM	1995 – 1998 and 2000 1997 1994 – 1997 1993 – 1997

HONORS AND AWARDS

<i>Nominated for Outstanding Faculty Teaching/Mentoring Award</i>	
College of Education, University of Arizona	2014, 2018
<i>Nominated for Outstanding Mentor of Graduate/Professional Students Award</i>	
Graduate and Professional Student Council, University of Arizona	2017
<i>Erasmus Circle Fellow – in recognition of faculty demonstrating excellence in their field</i>	
College of Education, University of Arizona	2015
<i>Nominated for Graduate Teaching and Mentoring Award</i>	
Graduate College, University of Arizona	2014
<i>Journal for Research in Mathematics Education Outstanding Reviewer</i>	
Journal for Research in Mathematics Education	2014
<i>Nominated for Outstanding Faculty Service/Outreach Award</i>	
College of Education, University of Arizona	2013
<i>Mathematics Education Service, Teaching and Research (STaR) Program Fellow</i>	
National Science Foundation Faculty Induction Program	2010 – 2011
<i>Excellence-In-Teaching Citation</i>	
Michigan State University	2007
<i>Multicultural/Cross-Cultural Program Award for the GLBT Safe Schools Group</i>	
Michigan State University	2007
<i>Spencer Foundation Research Training Fellowship</i>	
Michigan State University	2005 – 2006
<i>K. Patricia Cross Future Leaders Award Finalist</i>	
American Association for Higher Education	2005
<i>University Distinguished Fellowship</i>	
Michigan State University	2002-2005, 2007 – 2008
<i>All-Star Research Team Runner-Up</i>	
Lovelace Respiratory Research Institute	1996
<i>All-Star Research Team</i>	
Lovelace Respiratory Research Institute	1995
<i>President's Award</i>	
Oregon Museum of Science and Industry	1993

PUBLICATIONS

BOOKS

- M.B. Wood**, E. Turner, M. Civil & J.A. Eli (Eds.). (2016). *Proceedings of the 38th Annual North American Chapter of the International Group for the Psychology of Mathematics Education*. Tucson, AZ: The University of Arizona.
- Featherstone, H. F., Crespo, S., Jilk, L. M., Oslund, J., Parks, A., & **Wood, M. B.** (2011). *Smarter together! Collaboration and equity in the elementary classroom*. Reston, VA: National Council of Teachers of Mathematics.

REFEREED JOURNAL ARTICLES

- Shah, N., Cosby, M. D., Crespo, S., Goffney, I. M., Hand, V., & **Wood, M. B.** (Accepted). "Bossy," "Boy," and "Urban": Troubling Coded Language in Mathematics Education Research. *Journal for Research in Mathematics Education, Monograph*.

- Wood, M. B.** (2016). Rituals and right answers: Barriers and supports to autonomous activity. *Educational Studies in Mathematics*, 91(3), 327-348.
- Gunckel, K. L., & **Wood, M. B.** (2016). The Principle–Practical Discourse Edge: Elementary Preservice and Mentor Teachers Working Together on Co-Learning Tasks. *Science Education*, 100(1), 96-121.
- Wood, M. B.** & Turner, E. T. (2015). Bringing the teacher into teacher preparation: Learning from mentor teachers in joint methods activities. *Journal of Mathematics Teacher Education*, 18(1), 27-51.
- Wood, M. B.**, Olson, A. M., Freiberg, E. J., & Vega, R. I. (2013). Fractions as subtraction: An activity-oriented perspective from elementary children. *School Science and Mathematics*, 113(8), 390-399.
- Wood, M. B.** (2013). Mathematical micro-identities: Moment-to-moment positioning and learning in a fourth-grade classroom. *Journal for Research in Mathematics Education*, 44(5), 775-808.
- Good, T. L., **Wood, M. B.**, Sabers, D., Olson, A. M., Kalinec, C. A., Lavigne, A., & Sun, H. (2013). Strengthening grade 3-5 students' foundational knowledge of rational numbers. *Teachers College Record*, 115 (7), 1-45.
- Wood, M. B.**, Jilk, L. M., & Paine, L. (2012). Moving beyond sinking or swimming: Reconceptualizing needs of beginning teachers. *Teachers College Record*, 114(8), p. 1-44.
- Wood, M. B.** & Kalinec, C. A. (2012). Student talk and opportunities for learning in small group interactions. *International Journal of Educational Research*, 51-52, 109-127.
- Wood, M. B.** (2010). Not understanding Andy: A metaphorical analysis of students' resistance to learning. *For the Learning of Mathematics*, 30 (3), 17-22.

BOOK CHAPTERS AND COMMENTARIES

- Wood, M. B.** and Hackett, M. (2018) The Problem of Overparticipation: Fostering Productive Participation in your Classroom. In Crespo, S., Celedón-Pattichis, S., and Civil, M. (Eds.). *Access and Equity: Promoting high quality mathematics in grades 3-5* (p. 133-146). Reston, VA: NCTM.
- Wood, M. B.** and Hackett, M. (2017). Repurposing Teacher Questions: Working Toward Assessing and Advancing Student Mathematical Understanding. In Wanko, J. and Spangler, D. A. (Eds.). *Enhancing Classroom Practice with Research behind Principles to Actions*. Reston, VA: NCTM.
- Wood, M. B.** (2016). Gender ≠ Sex ≠ Sexual Orientation, Commentary on Problematizing Gender: Learning to Embrace Uncertainty. In White, D., Crespo, S., Felton-Koestler, M., Goffney, I., Spencer, J. & Civil, M. (Eds). *Cases for teacher educators: Facilitating conversations about inequities in mathematics classrooms* (pp. 107-111). Charlotte, NC: Information Age Publishing Inc.

REFEREED CONFERENCE PROCEEDINGS

- Wood, M.B.** and Gunckel, K.L. (2017). Do you see what I see? Connecting mathematics to the real world. In E. Galindo & J. Newton, (Eds.), *Proceedings of the 39th Annual North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 1218-1221). Indianapolis, IN: Hoosier Association of Mathematics Teacher Educators.
- Eli, J. A., & **Wood, M.B.** (2016). Learning to facilitate groupwork through Complex Instruction . In **M.B. Wood**, E. Turner, M. Civil & J.A. Eli (Eds.), *Proceedings of the*

- 38th Annual North American Chapter of the International Group for the Psychology of Mathematics Education (pp. 933). Tucson, AZ: The University of Arizona
- Sheldon, J.**, Patterson, C., & Wood, M. (2016). Problem solving as co-construction of narrative: Collaboration and shared cognition in a calculus workshop. In **M.B. Wood**, E. Turner, M. Civil & J.A. Eli (Eds.), *Proceedings of the 38th Annual North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 1149). Tucson, AZ: The University of Arizona.
- Wood, M. B.**, Kasten, S. E., Drake, C., Newton, J. A., Spangler, D. A., & Wilson, P.S. (2015). Prospective Teachers and *Common Core State Standards for Mathematics*: Activities Used by Mathematics Teacher Educators. In T. Bartell, K. N. Bieda, R. T. Putnam, K. Bradfield, H. Dominguez, H. (Eds.). *Proceedings of the 37th Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (p. 1016). East Lansing, MI: Michigan State University
- Wood, M. B.**, Newton, J. A., Drake, C., Spangler, D. A., & Wilson, P.S. (2013). Investigating mathematics teacher educators' practices in the context of *Common Core State Standards for Mathematics*. In M. Martinez & A. Castro Superfine, (Eds.). *Proceedings of the 35th Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (p. 971). Chicago, IL: University of Illinois, Chicago.
- Wood, M. B.**, Oslund, J., Crespo, S., Parks, A., Jilk, L., & Featherstone, H. (2013). Complex Instruction working group: Investigating Complex Instruction in mathematics teacher education. In M. Martinez & A. Castro Superfine, (Eds.). *Proceedings of the 35th Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (p. 1380-1386). Chicago, IL: University of Illinois, Chicago.
- Civil, M., Fede, B., & **Wood, M. B.** (2013). A third-space of mathematical practice: Implications for teacher education. In A. M. Lindmeier & A. Heinze (Eds.). *Proceedings of the 37th Conference of the International Group for the Psychology of Mathematics Education*. Kiel, Germany: PME.
- Aly, G. & **Wood, M. B.** (2011). From oppositional culture to manifesting goals: A framework of resilience and growth. In L. R. Wiest & T. Lamberg, (Eds.). *Proceedings of the 33rd Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*. Reno, NV: University of Nevada, Reno.
- Hsieh, P. C. & **Wood, M. B.** (2011). What does "real-life" really mean to elementary preservice mathematics teachers? In L. R. Wiest & T. Lamberg, (Eds.). *Proceedings of the 33rd Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*. Reno, NV: University of Nevada, Reno.
- Lozano, G. & **Wood, M. B.** (2011). Educational metaphors in teachers' construction and framing of problems of practice. In L. R. Wiest & T. Lamberg, (Eds.), *Proceedings of the 33rd Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*. Reno, NV: University of Nevada, Reno.
- Wood, M. B.** (2009). Limitations of appearing as knowledgeable: An example of connections across mathematizing, identifying, and learning. In S. L. Swars, D. W. Stinson, & S. Lemons-Smith, (Eds.). *Proceedings of the 31st annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*. Atlanta, GA: Georgia State University.

- Wood, M. B.** (2007). Containers, pieces, and number: Analogies and metaphors for understanding fraction in one fourth-grade classroom. In L. R. Wiest & T. Lamberg, (Eds.), *Proceedings of the Twenty-Ninth Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*. NV: University of Nevada, Reno.
- Wood, M. B.**, Jilk, L. M., & Paine, L. (2006). Teachers as learners: Learning to teach mathematics from the perspective of beginning teachers. In S. Alatorre, J.L. Cortina, M. Sáiz, & A. Méndez, (Eds.), *Proceedings of the Twenty-Eighth Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*. [CD-ROM]. Mérida, Mexico: Universidad Pedagógica Nacional.
- Strickland, S., **Wood, M. B.**, & Parks, A. (2005). Number lines: Students across grade levels making meaning through metaphor. In G. M. Lloyd, M. Wilson, J. L. M. Wilkins, & S. L. Behm (Eds.), *Proceedings of the Twenty-Seventh Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*. [CD-ROM]. Eugene, OR: All Academic
- Wood, M. B.** & Star, J. R. (2004). Making Sense (or not) out of Linear Equation Solving. In D. E. McDougall and J.A. Ross (Eds.), *Proceedings of the Twenty-Sixth Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*. Toronto, Ontario: Ontario Institute for Studies in Education, p. 323.
- Cascadden, T., Tull, D., and **Wood, M. B.** (1999). The Natural Science Program at the University of New Mexico: Personalizing Science for Elementary Education Majors. In P. Rubba, J. Rye & P. Keig (Ed.), *Proceedings of the 1999 Annual International Conference of the Association for the Education of Teachers in Science*, Columbus, OH: ERIC Clearing House for Science, Mathematics and Environmental Education. p. 345.

ELECTRONIC PUBLICATIONS, PEER-REVIEWED

- Wood, M. B.** & Kinser-Traut, J. Y. (2017). Participant and Nonparticipant Observation: A Study of Instructional Support Liaisons. *SAGE Research Methods Cases, Part 2*. DOI: <http://dx.doi.org/10.4135/9781473981041>
- Newton, J. A., **Wood, M. B.**, Spangler, D. A., Wilson, P. S., Drake, C., & Kasten, S. (2013). Investigating the impact of the Common Core State Standards for Mathematics (CCSSM) on mathematics teacher preparation. *AMTE Connections*, 23 (1), p. 9-11.

PUBLICATIONS FOR TEACHERS AND THE PUBLIC

- Wood, M. B.**, Sheldon, J., Felton-Koestler, M. D., Oslund, J., Parks, A., Crespo, S., & Featherstone, H. (2019) 8 Teaching Moves Supporting Equitable Participation. *Teaching Children Mathematics*, 25(4), 218–223.
- Wood, M. B.** (2011). Math people: How identity counts for learning mathematics. *Imagine Research*, Fall 2011, p. 7-9.

CURRICULUM DESIGN

- Southwest Research and Information Center, *Population 6 Billion*, Albuquerque, NM, 1998.
Rio Grande Zoo, *Zoo to You*, Albuquerque, NM, 1994.

WORKS IN PROGRESS

Gunckel, K. L. & **Wood, M. B.** (In preparation). Epistemological challenges in making real world connections. To be submitted to *Teacher's College Record*.

Wood, M. B., Patterson, C. D., & Alshuli, T. (In preparation). Collaboration and identity in an undergraduate mathematics setting.

Kinser-Traut, J. & **Wood, M. B.** (In preparation). Practicality and moving from the university to the classroom.

SCHOLARLY PRESENTATIONS

INVITED SCHOLARLY PRESENTATIONS

Wood, M. B., Empson, S., Shih, J., & Cai, J. (2019, April). *Common methodological errors in JRME submissions*. Invited presentation for 2019 Research Conference for the National Council of Teachers of Mathematics, in San Diego, CA.

Wood, M. B. (2018, July). *An incoming wave: Private to Public Education*. Invited presentation for the 2018 Annual Conference of the Mathematics Education Research Group of Australasia, Massey University: Auckland, New Zealand.

Spencer, J., **Wood, M. B.**, Weber, K., Capraro, R. M. (2017, April) *JRME Studies that Honor Equity*. Invited presentation for Research Pre-session for the 2017 National Council of Teachers of Mathematics Annual Conference, in San Antonio, TX.

Wood, M. B. (2016, February). *Mathematical micro-identities: Students' positioning during mathematics lessons*. Invited presentation for Critical Issues in Mathematics Education: Observing, Evaluating and Improving Mathematics Teaching from the Early Grades through the University, at the Mathematical Sciences Research Institute (MSRI), University of California, Berkeley: Berkeley, CA.

Wood, M. B. (2014, May). *What is all this talk about identity? Why and how this matters in the math classroom*. Webinar presented for TODOS Live! Sponsored by TODOS: Mathematics for All.

SCHOLARLY CONFERENCE PRESENTATIONS

Kinser-Traut, J. and **Wood, M. B.** (2019, February). *Recontextualizing Teaching Practices: the Role of Content Coaches in Supporting Prospective Elementary Teachers*. Presentation at the 23rd Annual Association of Mathematics Teacher Educators Conference, Orlando, FL.

Wood, M. B. and Kinser-Traut, J. (2016, January). *Teacher Coaching as Renarration: Supporting Mathematical Learning by Shifting Teacher Stories*. Presentation at the 20th Annual Association of Mathematics Teacher Educators Conference, Irvine, CA.

Parks, A., Felton-Koestler, M., Eli, J., **Wood, M. B.**, Wagner, A., and Crespo, S. (2016, January). *Designing Complex Instruction Tasks to Support Prospective Teacher Learning in Elementary Content and Methods Courses*. Presentation at the 20th Annual Association of Mathematics Teacher Educators Conference, Irvine, CA.

Newton, J. A., Staples, M. E., Kasten, S. E., Drake, C., **Wood, M. B.**, Spangler, D. S., & Wilson P. S. (2015, February). *Preparing to Teach the Standards for Mathematical Practice: A Learning Progressions Approach*. Presentation at the 19th Annual Association of Mathematics Teacher Educators Conference, Orlando, FL.

Wood, M. B. & Gunckel, K. L. (2014, April). *Celebrating not creating: Leveraging existing third spaces for teacher preparation*. Paper presented at the 94th Annual Meeting of the American Educational Research Association, Philadelphia, PA. Part of the Using Third Space in Teacher Education Design Symposium.

- Wood, M. B.**, Kinser-Traut, J., Radon, M., & Lyon, M. (2014, April). *Learning to teach as a joint enterprise: Using instructional support liaisons in teacher preparation programs*. Paper presented at the 94th Annual Meeting of the American Educational Research Association, Philadelphia, PA.
- Wood, M. B.**, Newton, J. A., Wilson, P.S., Spangler, D. A., Drake, C., & Kasten, S. E. (2014, April). *Goals of mathematics teacher educators for prospective teachers and the Common Core State Standards for Mathematics*. Paper presented at the 94th Annual Meeting of the American Educational Research Association, Philadelphia, PA. Part of the Common Core State Standards for Mathematics and Mathematics Teacher Education Programs: Current and Future Directions Symposium.
- Drake, C., Newton, J. A., Spangler, D. A., Kasten, S. E., **Wood, M. B.**, & Wilson, P.S. (2014, April). *Mathematics teacher educators supporting prospective teachers in learning about CCSSM*. Paper presented at Annual National Council of Teachers of Mathematics Research Conference, New Orleans, LA.
- Doyle, W., Gunckel, K. L., **Wood, M. B.**, & Turner, E. E. (2013, September). *Blending pedagogical theory and practice in preservice science teacher education*. Paper presented at the 10th Biannual Conference of the European Science Education Research Association, Nicosia, Cyprus.
- Wood, M. B.** & Kinser-Traut, J. (2013, April). *Elementary teachers' perspectives on the role of mathematics curriculum*. Paper presented at the 93rd Annual Meeting of the American Educational Research Association, San Francisco, CA.
- Wood, M. B.** & Kinser-Traut, J. (2013, April). *Figured worlds, positions, and optimizing hybrid discourses in joint learning events*. Paper presented at the 93rd Annual Meeting of the American Educational Research Association, San Francisco, CA. Part of a Beyond Bridging Symposium.
- Gunckel, K. L. & **Wood, M.B.** (2013, April). *Hybridization of discourses in preservice and mentor teacher joint learning events*. Paper presented at the 93rd Annual Meeting of the American Educational Research Association, San Francisco, CA. Part of a Beyond Bridging Symposium.
- Crespo, S., Featherstone, H., Jilk, L., Parks, A., & **Wood, M.B.** (2013, January). *Smarter together: (Re)learning to teach elementary school mathematics using complex instruction*. Paper set presented at the 17th Annual Association of Mathematics Teacher Educators Conference, Orlando, FL.
- Doyle, W., Gunckel, K. L., **Wood, M. B.**, & Turner, E. E. (2012, April). *Mapping the discourses of practice*. Paper presented at the 92nd Annual Meeting of the American Educational Research Association, Vancouver, BC.
- Wood, M. B.**, Turner, E. T., Koestler, C. A., & Civil, M. (2012, February). *Experiences, Explanations, and Third Spaces: A New Model for Pre-Service Elementary Mathematics Teacher Education*. Paper presented at the 16th Annual Association of Mathematics Teacher Educators Conference, Fort Worth, TX.
- Olson, A. M., Freiberg, E. J., **Wood, M. B.**, Orduño, J., & Pierce, L. (2011, November). *What is a fraction? Children's examples and understanding*. Paper presented at the 24th Annual Arizona Educational Research Organization Conference, Tucson, AZ.
- Wood, M. B.**, & Gunckel, K. L. (2011, June). *Beyond Bridging: Using a third space to redesign elementary teacher preparation*. Paper presented at the Science and Mathematics Teacher Imperative 2011 National Conference. Portland, OR.
- Gunckel, K. L., **Wood, M. B.**, Turner, E. E., & Dykstra, E. M. (2011, April). *Teachers' Use of the "Real World" in Teaching Mathematics and Science*. Paper presented at the 91st

Annual Meeting of the American Educational Research Association, New Orleans, LA.

- Good, T. L., Sabers, D., **Wood, M. B.**, Kalinec, C. A., Olson, A., Lavigne, A., Sun, H. (2010, November). *Improving students' understanding of rational numbers in grades 3 – 5 classrooms*. Paper presented at 23rd Annual Arizona Educational Research Organization Conference, Mesa, AZ.
- Wood, M. B.**, & Lozano Teran, G. (2010, May). *Racing to the top through stopping to think: metaphors in teachers' talk and national policy*. Paper presented at the 90th Annual Meeting of the American Educational Research Association Annual Meeting, Denver, CO.
- Wood, M. B.**, Civil, M., & Menéndez, J. M. (2010, January). *The paradoxes of poverty: teachers' perspectives on their students' failure to embrace education*. Presentation at the 14th Annual Conference of the Association of Mathematics Teacher Educators, Irvine, CA.
- Wood, M. B.** (2009, April). *Opportunities for learning in small group interactions: The case of Jakeel*. Paper presented at the 89th annual meeting of the American Educational Research Association Annual Meeting, San Diego, CA.
- Oslund, J., **Wood, M. B.**, and Featherstone, H. (2007) *Using Complex Instruction to promote access and equity in mathematics education*. Creating Balance in an Unjust World Conference, Brooklyn, NY: April 28, 2007.
- Wood, M. B.** (2007). *Containers, pieces, and number: Metaphors for understanding fractions in one fourth-grade classroom*. Poster presented at the 87th annual meeting of the American Educational Research Association Annual Meeting, Chicago, IL: April 12, 2007.
- Paine, L. W., Jilk, L. M. & **Wood, M. B.** (2006). *Learning to teach mathematics is so hard! When induction is not enough: Needs of beginning teachers as seen from the swimmer's perspective*. Paper presented at the 86th annual meeting of the American Educational Research Association Annual Meeting, San Francisco, CA: April 9, 2006.
- DeLany, B. D. & **Wood, M. B.** (2006). *Building the middle: Making curriculum a focus of induction*. Paper presented at the 86th annual meeting of the American Educational Research Association Annual Meeting, San Francisco, CA: April 8, 2006

GRANTS AND FELLOWSHIPS

FEDERAL

- Collaborative Research: Co-Developing a Curriculum Coherence Toolkit* 2019-2021
PI, 10% effort, \$108,791 over 2 years
Project funded by National Science Foundation Division of Research on Learning.
The purpose is to investigate fourth grade teachers' selection and modification of mathematics curriculum resources given the changes in teaching contexts arising from increasing use of internet resources.
- Developing and Validating a Scalable, Classroom-focused Measure of Usable Knowledge for Teaching Mathematics: The Classroom Video Analysis Instrument* 2017-2021
Senior Researcher, 12% effort, \$1,073,586 over 4 years

PI: Nicole Kersting, Project funded by National Science Foundation Division of Research on Learning. The purpose is to develop a set of video-based, scalable, classroom-focused measures of usable mathematics teaching knowledge that are aligned with Common Core State Standards for Mathematics.

Smarter Together Working Conference: Developing a Shared Curriculum of Complex Instruction for Elementary Mathematics Methods Courses 2013-2015

Co-PI, 8% effort, \$107,000 over 2 years

PI: Amy N. Parks

Conference grant funded by National Science Foundation. The purpose is to develop a Complex Instruction curriculum module that addresses the mathematical and pedagogical needs of prospective elementary teachers.

Investigating Mathematics Teacher Educators' Practices in the Context of Common Core State Standards for Mathematics 2012-2013

Co-PI, 0% effort, \$14,400

PI: Jill A. Newton, Co-PIs: Corey Drake, Patricia A. Wilson, Sarah E. Kasten, Denise Spangler. Project funded by the NSF-supported Center for the Study of Mathematics Curriculum to support grant writing and initial research into mathematics teacher educators' work with the Common Core.

Beyond Bridging: Co-Education of Preservice and Inservice Elementary Teachers in Science and Mathematics 2010-2014

Senior Researcher, 12% effort, \$2,223,107 over four years

PI: Bruce Johnson, Co-PIs: Marta Civil, Katrina Mangin, & Maggie Shafer

Research funded by National Science Foundation to study ways of enhancing elementary teacher preparation in mathematics and science through innovative involvement of mentor teachers.

Arizona Master Teachers of Mathematics (AZ-MTM) 2010-2015

Co-PI, 0.5% effort, \$1,802,755 over five years

PI: Mathew Felton-Koestler, Co-PIs: Rebecca McGraw, Erin E. Turner

National Science Foundation, Noyce Teacher Scholarship Program that supports master elementary teachers in becoming mathematics teacher leaders, able to support their schools and districts in improving elementary mathematics education.

STATE

LIMES2: Leadership Institute for Mathematics in Elementary Schools 2016-2017

Co-PI, \$159,784

PI: Erin Turner, Co-PI: Marta Civil

Extension of original LIMES project. Funded through the Arizona Board of Regents to support teachers in working toward the Arizona Mathematics Endorsement K-8.

LIMES: Leadership Institute for Mathematics in Elementary Schools 2015-2016

Co-PI, \$355,934

PI: Erin Turner, Co-PI: Marta Civil

Project funded through the Arizona Board of Regents to support teachers in working toward the Arizona Mathematics Endorsement K-8.

PRIVATE FOUNDATIONS

- 20 Days Toward Complex Instruction* 2018-2020
Co-PI, \$5,000 initially and then a second award of \$5,000
PI: Maggie Hackett, Sunnyside Unified School District
Proposal to the National Council of Teachers of Mathematics (NCTM) to work with teachers to develop curriculum materials for groupwork lessons.
- Algebra Ready: Transitioning to Academic Success* 2011-2014
Co-PI, \$559,416
PI: Thomas L. Good, Co-PI: Courtney Koestler
Project funded by Helios Foundation to support the conversion of previous teacher professional development on rational numbers into an online format.
- Secondary Teachers' Understandings and Emerging Practices Related to Relevant, Authentic, and "Real-World" Science and Mathematics* 2010-2011
PI, \$4,951
Co-PIs: Kristin L. Gunckel, Erin E. Turner
Research funded by Lester L. and Roberta D. Smith to explore how teachers make real-world connections in their classrooms.
- Improving Fifth Grade Students' Understanding of Rational Numbers, The University of Arizona Math Project* 2009-2010
Co-PI, \$49,926
PI: Thomas L. Good, Co-PI: Darrell Sabers
Project funded by the Helios Foundation that supported 5th grade teacher professional development on teaching and learning rational numbers.
- The Southern Arizona Center for Development and Retention of Science and Mathematics Teachers* 2008-2011
Co-PI, \$1.5 million
PI: Bruce Johnson, Co-PIs: Kristin L. Gunckel, Erin E. Turner
Project funded by the Science Foundation Arizona to development a master's degree program for high school mathematics and science teachers that supports connections between businesses and teachers.
- Creating Inclusive Excellence at Michigan State University* 2006-2008
Co-PI, Two separate awards of \$2500 each
PI: Kristin L. Gunckel
Project funded by the Michigan State University Office for Inclusion and Intercultural Initiatives to support the Gay, Lesbian, Bisexual, Transgender Safe Schools Group seminar series.

SERVICE

NATIONAL/INTERNATIONAL OUTREACH

National Level Service

- Small Research Grants Program Reviewer*, Spencer Foundation, 2019-2020
- Chair of the Editorial Panel for Journal for Research in Mathematics Education* of the National Council of Teachers of Mathematics, 2018-2019.
- Editorial Panel for Journal for Research in Mathematics Education* of the National Council of Teachers of Mathematics, 2016-2020.
- External Reviewer* for five Assistant to Associate Faculty tenure and promotion cases, 2016, 2017, and 2019
- Member*, National Steering Committee, PMENA, 2013-2017.
- Lead Co-Chair*, 2016 National Conference for the International Group of Psychology of Mathematics Education – North American Chapter (PMENA), held in Tucson, November 3-6, 2016. This conference had 574 national and international attendees and 442 research presentations.
- Co-Chair*, Smarter Together Complex Instruction Conference, 2014. This NSF-funded conference brought together 40 mathematics teacher educators from across the U.S. to discuss using Complex Instruction in the mathematics preparation of prospective elementary teachers. (See the *Smarter Together Working Conference* under grants for more information.)
- Webpage design and maintenance*, Complex Instruction Mathematics (see the website at CIMath.org) 2013-present

Reviewer for the following education journals

- Journal for Research in Mathematics Education* (2010 – present)
- Journal of Mathematics Teacher Education* (2012-present)
- Digital Experience in Mathematics* (2018)
- Journal of Teacher Education* (2017)
- Cognition and Instruction* (2017)
- Mathematics Teacher Educator* (2017)
- Educational Studies in Mathematics* (2013-present)
- Journal of Mathematical Behavior* (2013-2014)
- The Elementary School Journal* (2013)
- School Science and Mathematics* (2012-2017)
- Teaching Children Mathematics* (2012)
- Journal of Literacy Research* (2013)
- American Educational Research Journal* (2015)
- Mathematics Teacher Educator* (2015)

Advisory Boards

- Reasoning Language for Teaching Secondary Algebra (ReLaTe-SA)*, NSF Discovery Research PreK-12, PI: Cody Patterson, 2019-2022

Proposal Reviewer for the following national conferences

- Association for Mathematics Teacher Educators (AMTE) (2012-2017)
- North American Chapter of the International Group for the Psychology of Mathematics Education (PMENA) (2009 – 2017)
- International Group for the Psychology of Mathematics Education (2014, 2015)
- American Educational Research Association
Division C, Division K, and Research in Mathematics Education Special Interest Group (2006-present)

National and International Conference Presentations to Teachers/Practitioners: Invited Presentations

- Wood, M. B.** (2019). *Mathematical Superheroes: Creating Justification Leagues in Your Classroom*. Invited talk at the Western Regional Noyce Conference, Tucson, Arizona: February 16, 2019.
- Wood, M. B.** (2018). *Rethinking Differentiation: Modifying Lessons for Engagement, Support, and Challenge*. Invited talk at the National Council of Teachers of Mathematics 2018 Regional Conference, Hartford, CT: October 6, 2018.
- Wood, M. B.** (2018). *Mathematical Superheroes*. Invited Zoom presentation at the Early Action for Success Conference, New South Wales Department of Education, Sydney, Australia: September 24 and 26, 2018
- Wood, M. B.** (2018). *Making Waves and Opening Spaces: Helping Each Student Engage in Rigorous Mathematics*. Invited keynote talk at the Mathematics Education Research Group of Australasia 2018 Mathematics Teacher's Day, Auckland, New Zealand: June 30, 2018.
- Wood, M. B.** (2018). *Mathematical Superheroes*. Invited talk at the Mathematics Education Research Group of Australasia 2018 Mathematics Teacher's Day, Auckland, New Zealand: June 30, 2018.
- Wood, M. B.** (2017). *Smarter Together through Differentiated Instruction*. Invited talk at the National Council of Teachers of Mathematics 2017 Innovat8 Conference, Las Vegas, NV: November 17, 2017.
- Wood, M. B.** (2017). *Smarter Together! Getting All Students to Participate in Challenging Mathematics*. Invited talk at the National Council of Teachers of Mathematics 2017 Annual Meeting, San Antonio, TX: April 7, 2017.
- Spangler, D., Hodges, T., Leatham, K., & **Wood, M. B.** (2017). *Get to Know the Research Companion to Principles to Actions*. Invited talk at the National Council of Teachers of Mathematics 2017 Annual Meeting, San Antonio, TX: April 7, 2017.
- Wood, M. B.** & Hackett, M. (2016). *Posing Purposeful Questions*. Invited talk at the National Council of Teachers of Mathematics 2016 Annual Meeting, San Francisco, CA: April 14, 2016.

National Conference Presentations to Teachers/Practitioners

- Wood, M. B.**, Goff, K., Brunner, G., & Haugh, T. (2019). *Mathematical Superheroes: Creating Justification Leagues in Your Classroom*. Presentation at the National Council of Teachers of Mathematics 2019 Annual Meeting, San Diego, CA: April 4, 2019.
- Wood, M. B.** & Eli, J. (2018). *Mathematical Superheroes*. Presentation at the National Council of Teachers of Mathematics 2018 Regional Conference, Hartford, CT: October 6, 2018.
- Wood, M. B.**, Jilk, L., Featherstone, H., Crespo, S., & Oslund, J. (2012). *Smarter together! Groups, equity, and rigorous mathematics in K-8 classrooms*. Presentation at the National Council of Teachers of Mathematics 2012 Annual Meeting, Philadelphia, PA: April 26, 2012.
- Wood, M. B.** & Stokes, G. (2010). *Smarter together! Rigorous mathematics for all students through Complex Instruction*. Presentation at the National Council of Teachers of Mathematics 2010 Annual Meeting, San Diego, CA: April 23, 2010.
- Burton, O., Velasco, L., & **Wood, M. B.** (2009). *Helping all students learn from student talk*. Presentation at the 50th Annual California Math Council-South Conference, Palm Springs, CA: November 7, 2009.

Professional Development Workshops

- Smarter Together! Getting All Students Engaged in Groupwork
Professional development for faculty, University of Hartford, CT October 3, 2018
- Smarter Together! Improving Participation in Mathematics, Secondary Level
Week-long workshop for teachers from San Diego area July 10-11, 2018
- Smarter Together! Improving Participation in Mathematics, K-6
Week-long workshop for teachers from across the U.S. June 4-8, 2018
- Complex Instruction/Groupwork Professional development for K-5 teachers
Mahtomedi School District, Minnesota April 25-27 and August 27-29, 2018
- Smarter Together! Improving Participation in Mathematics, K-6
Week-long workshop for teachers from Southern Arizona 2017

LOCAL OUTREACH

Conference/Invited Presentations to Teachers/Practitioners

- Wheeler, G., Valentine, J., **Wood, M. B.**, & Hackett, M. (2019) *20 Days to CI - Lessons Learned from Setting Up a CI Classroom*. Presentation at the Mathematics Educator Appreciation Day Conference, Tucson, AZ: January 26, 2019.
- Wood, M. B.** (2019) *Making sense of children's mathematical thinking*. Invited Presentation for undergraduate students visiting from Nanjing and Nantong Universities, China, Tucson, AZ: January 22, 2019.
- Wood, M. B.** & Smith, J. E. (2019) *Introduction to Smarter Together!* Presentation at the Mathematics Educator Appreciation Day Conference, Tucson, AZ: January 26, 2019.
- Wood, M. B.** & Eli, J. (2019) *Mathematical Superheroes: Create a Justification League in Your Classroom*. Presentation at the Mathematics Educator Appreciation Day Conference, Tucson, AZ: January 26, 2019.
- Kinser-Traut, J. & **Wood, M. B.** (2018) *Introduction to Smarter Together!* Presentation at the Mathematics Educator Appreciation Day Conference, Tucson, AZ: January 20, 2018.
- Wood, M. B.** & Smith, J. E. (2018) *20 Days to Smarter Together*. Presentation at the Mathematics Educator Appreciation Day Conference, Tucson, AZ: January 20, 2018.
- Smith, J. E. & **Wood, M. B.** (2018) *Improving Your Teacher Moves: Helping Your Students Get the Most from Your Lessons*. Presentation at the Mathematics Educator Appreciation Day Conference, Tucson, AZ: January 20, 2018.
- Wood, M. B.** & Eli, J. (2018) *Mathematical Superheroes: Create a Justification League in Your Classroom*. Presentation at the Mathematics Educator Appreciation Day Conference, Tucson, AZ: January 20, 2018.
- Wood, M. B.** (2017) *Making sense of children's mathematical thinking*. Invited Presentation for undergraduate students visiting from Nanjing and Nantong Universities, China, Tucson, AZ: October 10, 2017.
- Wood, M. B.** (2017) *Smarter Together! Improving Participation for All Students*. Invited Online Presentation for Wildwood Elementary School/O.H. Anderson Elementary School, Mahtomedi, MN: October 12, 2017.
- Wood, M. B.** (2017) *Smarter Together! Getting all Students to Participate in Challenging Mathematics*. Invited Presentation for Tucson Unified School District, Tucson, AZ: May 6, 2017.

- Wood, M. B.** (2017) *Taking back Public Education*. Invited Keynote Speaker for Pueblo High School Institute for Education and Equity, Tucson, AZ: June 28, 2017.
- Wood, M. B.** (2017) *Getting Everyone Engaged*. Presentation at the Mathematics Educator Appreciation Day Conference, Tucson, AZ: January 21, 2017.
- Wood, M. B.** (2017) *Designing Terrific Tasks*. Presentation at the Mathematics Educator Appreciation Day Conference, Tucson, AZ: January 21, 2017.
- Wood, M. B.,** Cavazos, R. R., & Witt, E. (2016). *I Sit Them in Groups. Now What?* Presentation at the Mathematics Educator Appreciation Day Conference, Tucson, AZ: January 23, 2016.
- Wood, M. B.,** Kinser-Traut, J. Y. (2016). *Differentiating Instruction using Mathematical Strengths and Stretches*. Presentation at the Mathematics Educator Appreciation Day Conference, Tucson, AZ: January 23, 2016.
- Wood, M. B.,** Miranda-Garcia, L. (2016). *Participation Problems? How to Get All Students Talking About Math*. Presentation at the Mathematics Educator Appreciation Day Conference, Tucson, AZ: January 23, 2016.
- Patterson, C. L. & **Wood, M. B.** (2014). *Smarter together: How collaborative work can help students make sense of graph transformations*. Presentation at the Mathematics Educator Appreciation Day Conference, Tucson, AZ: January 25, 2014.
- Wood, M. B.** & McDonald, A. (2014). *Smarter together: Organizing for effective groupwork*. Presentation at the Mathematics Educator Appreciation Day Conference, Tucson, AZ: January 25, 2014.
- Wood, M. B.** (2012). *Smarter together! Rigorous mathematics for all students through Complex Instruction*. Presentation at the Mathematics Educator Appreciation Day Conference, Tucson, AZ: January 20, 2012.
- Wood, M. B.** (2011). *Smarter together! Rigorous mathematics for all students through Complex Instruction*. Presentation at the Mathematics Educator Appreciation Day Conference, Tucson, AZ: January 22, 2011.

Professional Development Workshops

- Mathematics Teaching Professional Development (Sunnyside Unified School District) 2015 - present
- Mathematics Teaching Professional Development (Tucson Unified School District) 2009-2014, 2017
- The University of Arizona Math Project Professional Development (Amphitheater School District) 2009-2010
- Teacher Study Group (Sunnyside Unified School District) 2008-2010

DEPARTMENT SERVICE

- Elementary Education Program Revisions Committee 2016-present
- TLS Doctoral Degree Ad Hoc Committee 2018-2019
- Graduate Student Affairs Committee, TTE Chair 2015-2017
- Teaching, Learning, & Sociocultural Studies Operations Committee 2013-2014
- Teaching & Teacher Education Graduate Student Affairs Committee 2010-2013
- Teacher Preparation Program Applications Review & Interviews 2008-present
- Teach Arizona Applicant Interviews 2009, 2013

Teacher Preparation Committee	2008-2010
Teaching & Teacher Education Graduate Student Committee	2008-2010, 2013-2019
Teachers in Industry Program Committee	2008-present

COLLEGE SERVICE

Professional Preparation Board (Member)	2019-present
Third Year Review Committee	2018-2019
College Diversity Committee	2017-2018
UA New Start Program Student Appreciation Lunch	2012, 2013
Safe Schools (GLBT Awareness Group)	2011-present

UNIVERSITY SERVICE

Invited presenter, Presented a three day workshop *Promoting Equity Through Active Learning in Undergraduate Mathematics (PETALUM)* to faculty from the University of Arizona Department of Mathematics and Pima Community College Department of Mathematics (2019).

Consultant, Think Tank Schedule for Success program, Provide feedback on design of mathematics instructional materials for SAS100AX course (2018-present).

Invited lecturer, Presented a seminar on *Groupwork in College Mathematics Courses: Lessons from a Vector Calculus Course* to the University of Arizona Department of Mathematics, Math Instructional Colloquium (MIC) (2017).

Invited lecturer, Presented a seminar on *Getting Everyone Engaged: Improving Student Participation & Group Work* to the University of Arizona Department of Teaching, Learning, & Sociocultural Studies (2017).

Invited lecturer, Presented a seminar on *Groupwork in Secondary Mathematics* to AZ Noyce MaTh Scholars Program, in the University of Arizona Department of Mathematics (2017).

Invited lecturer, Presented a seminar on *Not understanding Andy: A metaphorical analysis of students' resistance to learning* to MATH 302A, an undergraduate course for future elementary teachers in University of Arizona Department of Mathematics (2016).

Invited lecturer, Presented a seminar on *Smarter Together! Rigorous Mathematics for all Students through Complex Instruction* to G-TEAMS, an NSF-funded fellowship program housed in University of Arizona Department of Mathematics (2013).

Invited lecturer, with Erin Turner, presented a seminar on *Beyond Bridging: Building Better Connections between Elementary Mathematics Methods and Field Placement Classrooms* to the Mathematics Instruction Colloquium sponsored by the University of Arizona Department of Mathematics (2012).

Invited lecturer, Presented a seminar on *Groups, Equity, and Rigorous Mathematics in K-8 Classrooms* to the Arizona Master Teachers of Mathematics, University of Arizona Department of Mathematics (2012).

Invited lecturer, Presented a seminar on *Rigorous Mathematics for all Students through Complex Instruction* to G-TEAMS, an NSF-funded fellowship program housed in University of Arizona Department of Mathematics (2011).

Invited lecturer, Presented a seminar on *Learning, Identity, and Mathematics* to the University of Arizona University Learning Center (2008).

Invited lecturer, Presented a seminar on *Using Complex Instruction to Promote Access and Equity in Mathematics Education* to the Center for the Mathematics Education of Latinos/as (CEMELA) (2008).

Invited lecturer, Presented a seminar on *Mathematizing and identifying: A study of fourth grade students learning mathematics* to the Center for the Mathematics Education of Latinos/as (CEMELA) (2008).

Affiliate Faculty Member, the Institute for LGBT Studies (2008-present)

Co-Principle Investigator, *Arizona Master Teachers of Mathematics (AZ-MTM)* grant, I collaborate with faculty in Department of Mathematics on a National Science Foundation-funded grant that supports elementary teachers in developing teacher leadership skills in mathematics (2010-2016).

PROFESSIONAL MEMBERSHIPS

American Educational Research Association (AERA)

Division C: Learning and Instruction

Division G: Social Context of Education

Division K: Teaching and Teacher Education

Research in Mathematics Education Special Interest Group

Queer Studies Special Interest Group

Arizona Association of Teachers of Mathematics (AATM)

Association of Mathematics Teacher Educators (AMTE)

North American Chapter of the International Group for the Psychology of Mathematics Education (PMENA)

National Council of Teachers of Mathematics (NCTM)

School Science and Mathematics Association (SSMA)

TODOS: Mathematics for ALL