Lindsay Reiten

Mathematical Sciences
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FORMAL EDUCATION

August 2017 **Ph.D., Curriculum and Instruction (Mathematics Education)**
University of Wisconsin-Madison, Madison, WI

August 2008 **MSE, Mathematics**
University of Wisconsin-River Falls, River Falls, WI

May 2003 **B.A., Mathematics, Minor in Secondary Education and Psychology**
Luther College, Decorah, IA

POSITIONS HELD

2022 – Present **Associate Professor of Mathematics Education**, University of Northern Colorado, Department of Mathematical Sciences

2017 – 2022 **Assistant Professor of Mathematics Education**, University of Northern Colorado, School of Mathematical Sciences

2013 – 2016 **Research Assistant** University of Wisconsin-Madison
Wisconsin Center for Education Research

2012 – 2017 **Teaching Assistant**, University of Wisconsin-Madison
Department of Curriculum and Instruction

2010 – 2012 **Lecturer**, North Dakota State University
Mathematics Department

2005 – 2010 **Mathematics Teacher**, School District 5 of Lexington and Richland Counties
Irmo Middle School, Columbia, SC

2003 – 2005 **Mathematics Teacher**,
Tashkent International School (Middle and High School), Tashkent, Uzbekistan

PUBLICATIONS AND PRESENTATIONS

*Peer reviewed

Publications

1. *Troudt, M., **Reiten, L.**, & Novak, J. (2024). Emergent mathematical worlds from teacher knowing in whole class discourse: Using an enactivist lens on the teaching of exponential functions. *Journal of Mathematics Teacher Education.* https://doi.org/10.1007/s10857-023-09610-6
2. ***Reiten, L.** (2021). Professional development supporting teachers' implementation of virtual manipulatives. *Contemporary Issues in Technology and Teacher Education*, *21*(3), 670-707.
3. ***Reiten, L.** (2020). Why and how secondary mathematics teachers implement virtual manipulatives. *Contemporary Issues in Technology and Teacher Education, 20*(1), 55-84.
4. ***Reiten, L.** (2020). Challenges influencing secondary mathematics teachers' transition towards teaching with virtual manipulatives. In A. I. Sacristán, J. C. Cortés-Zavala, & P. M. Ruiz-Arias (Eds.), *Proceedings of the 42nd Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 1926-1930). Cinvestav/AMIUTEM/PME-NA. https://doi.org/10.51272/pmena.42.2020-315
5. *Troudt, M., **Reiten, L.** & Novak, J. (2020). Experienced secondary teachers' decisions to attend to the independent variable in exponential functions. In A. I. Sacristán, J. C. Cortés-Zavala, & P. M. Ruiz-Arias (Eds.), *Proceedings of the 42nd Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 820-828). Cinvestav/AMIUTEM/PME-NA. https://doi.org/10.51272/pmena.42.2020-123

6. ***Reiten, L.** (2019). Tensions secondary mathematics teachers face when teaching with technology. *Proceedings of the 4th International Turkish Computer and Mathematics Education Symposium* (pp. 572-573). Çeşme/Izmir, Türkiye.
7. *Ellis, A.B., Özgür, Z., **Reiten, L.** (2019). Teacher moves for supporting student reasoning. *Mathematics Education Research Journal,* 31, 107-132. https://doi.org/10.1007/s13394-018-0246-6
8. ***Reiten, L.** (2018). *Teachers' Implementation of Virtual Manipulatives After Participating in Professional Development*. In T. E. Hodges, G. J. Roy, & A. M. Tymniski (Eds.), *Proceedings of the 40th Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 1251-1254). Greenville, SC: University of South Carolina & Clemson University.
9. ***Troudt, M., Parker, C., Seehausen, A. T., Morgan, M., **Reiten, L.**, Novak, J. (2018). *High School Teachers' Mathematical Knowledge for Teaching Exponential Functions: MKT as Decision-Making*. In T. E. Hodges, G. J. Roy, & A. M. Tymniski (Eds.), *Proceedings of the 40th Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 512-515). Greenville, SC: University of South Carolina & Clemson University.
10. ***Reiten, L.** (2018). Teaching WITH (not near) technology. *Mathematics Teacher, 112*(3), 228-235.
11. ***Reiten, L.** (2018). Promoting Student Understanding Through Virtual Manipulatives. *Mathematics Teacher, 111*(7), 545-548.
12. **^*Reiten, L.** (2018). Teaching WITH (not near) virtual manipulatives. In E. Langran & J. Borup (Eds.), *Proceedings of the Society for Information Technology & Teacher Education International Conference* (pp. 1826-1835). Washington, D.C., United States: Association for the Advancement of Computing in Education (AACE). https://www.learntechlib.org/primary/p/182776/.

    ^Selected for inclusion in the Research Highlights in Technology and Teacher Education 2019 book.
13. *Strachota, S., & **Reiten, L.** (2017). Fostering productive statistical skepticism. *Mathematics Teacher, 111*(3), 222-224.
14. *Fonger, N.L., **Reiten, L.**, Strachota, S., & Özgür, Z. (2017). Engaging in research: Why? How? Now! *Mathematics Teacher, 110*(6), 462-465.
15. ***Reiten, L.**, & Strachota, S. (2016). Promoting statistical literacy through Tuva. *Mathematics Teacher*, *110*(3), 229-231.
16. ***Reiten, L.**, Özgür, Z., & Ellis, A.B. (2015). Students engaging in mathematical practices: As the gears turn. *Wisconsin Teachers of Mathematics, 68*(1), 7-11.
17. *Özgür, Z., **Reiten, L.**, & Ellis, A.B. (2015). On framing teachers' moves for supporting student reasoning. In T. Bartell, K. Bieda, R. Putnam, K. Bradfield, & H. Dominguez (Eds.), *Proceedings of the 37th Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 1062-1069). East Lansing, MI: Michigan State University.
18. ***Reiten, L.** (2015). Investigating teachers' beliefs and technology integration. In T. Bartell, K. Bieda, R. Putnam, K. Bradfield, & H. Dominguez (Eds.), *Proceedings of the 37th Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 1187). East Lansing, MI: Michigan State University.

Presentations

Research Conferences (without proceedings)

1. ***Reiten, L.** "Preparing preservice teachers to implement content-language integration." Paper presented at Association of Mathematics Teacher Educators Annual Conference, 2-4 February 2023.
2. *Lee, A., & **Reiten, L.** "Aren't you curious?: Curiosity as an avenue for promoting ambitious teaching in preservice teachers." Paper presented at Association of Mathematics Teacher Educators Annual Conference, Virtual. 11-13 and 18-20 February 2021.

3. *Troudt, M., **Reiten, L.,** & Novak, J. “Investigating teachers’ enacted knowledge through the lens of decision making and collective mathematical activity.” Poster presented at Association of Mathematics Teacher Educators Annual Conference, Virtual. 11-13 and 18-20 February 2021.
4. ***Reiten, L.** “Addressing Tensions when Teaching WITH Technology.” Paper presented at Association of Mathematics Teacher Educators Annual Conference, Phoenix, AZ. 6-8 February 2020.
5. ***Reiten, L.** “A Professional Development Model to Support Teaching WITH (not near) Technology.” Paper presented at Association of Mathematics Teacher Educators Annual Conference, Orlando, FL. 9-11 February 2019.
6. ***Reiten, L.** “Supporting Teachers’ Integration of Virtual Manipulatives and Activities.” Paper presented at Association of Mathematics Teacher Educators Annual Conference, Orlando, FL. 7-9 February 2017.
7. ***Reiten, L.** “Promoting Teachers’ Use of Virtual Manipulatives.” Presentation at Conference on Research and Innovation in Teaching Mathematics with Technology, University of Wisconsin-La Crosse. 11-12 July 2016.
8. ***Reiten, L.,** Özgür, Z., & Ellis, A.B. “Utility of the TMSSR Framework for Investigating Instructional Practices.” Paper presented at National Council of Teachers of Mathematics Research Conference, San Francisco, CA. 11-13 April 2016.
9. *Özgür, Z., Strachota, S., & **Reiten, L.** “Single and Ready to Mingle: Connecting Teachers and Researchers.” Poster presented at Association of Mathematics Teacher Educators Annual Conference, Irvine, CA. 28-30 January 2016.

Practitioner Conferences

10. Powers, R., & **Reiten, L.** “Five Steps to Develop Math Reasoning and Language.” Presentation at Teaching and Learning CoLab (Colorado Department of Education) at university of Northern Colorado, Greeley. 8 June 2022.
11. **Reiten, L.** “Teaching WITH (not near) Technology.” Presentation at Annual Conference of Colorado Conference of Teachers of Mathematics, Denver, CO. 4 August 2018.
12. **Reiten, L.** “Teaching WITH (not near) Technology.” Presentation at Annual Conference of the Wisconsin Mathematics Council (National Council of Teachers of Mathematics Affiliate), Green Lake, WI. 3-5 May 2017.
13. **Reiten, L.** “Using Virtual Manipulatives to Enhance Student Learning and Engagement.” Presentation at Annual Conference of the Wisconsin Mathematics Council (National Council of Teachers of Mathematics Affiliate), Green Lake, WI. 2-4 May 2016.
14. **Reiten, L.** “Preparing Teachers to Use Instructional Technology Effectively.” Presentation at Teaching Mathematics with Technology Conference, University of Wisconsin-La Crosse. 20-21 July 2015.
15. Bailey, N.J., Kulow, T., **Reiten, L.** “Divide and Conquer: Division Interpretations.” Presentation at Annual Conference of the Wisconsin Mathematics Council (National Council of Teachers of Mathematics Affiliate), Green Lake, WI. 2-3 May 2013.

Invited Presentations

16. **Reiten, L.,** "Lessons Learned: Moving Mathematics Teaching and Learning Forward." Annual Conference of the Colorado Council of Teachers of Mathematics (CCTM), Colorado Council of Teachers of Mathematics (CCTM), Virtual. September 2021.
17. **Reiten, L.,** "Teaching for Today and Tomorrow." 2nd International Science, Education, Art and Technology Symposium, Dokuz Eylul University Buca Faculty of Education, Virtual and Izmir, Türkiye. May 2021.
18. **Reiten, L.** “Teaching WITH (not near) Virtual Manipulatives.” Creighton University, Department of Mathematics. March 2018.

19. **Reiten, L.** "Using Virtual Manipulatives to Enhance Student Learning and Engagement." University of Wisconsin-Madison, Department of Curriculum and Instruction. September 2016.
20. **Reiten. L.** "Online Resources to Enhance Student Learning and Engagement." Poster presented at Cooperative Educational Service Agency (CESA) Annual Conference 2016: Achieving Excellence for All, University of Wisconsin-Madison. May 2016.
21. **Reiten, L.** "Supporting Teachers Using Virtual Manipulatives." Roundtable presentation at Annual Conference of American Educational Research Association, Chicago, IL. April 2015.

TEACHING

University of Northern Colorado (UNC):

MED 731 Learning Theories in Mathematics Education (Fa '23)

STEP 161 Observation & Analysis of Secondary Teaching I (Fa '17, Sp '18, Fa '18, Sp '19, Fa '20, Fa '21, Fa '22, Fa '23)

STEP 363 Clinical Experience for Secondary Teaching III (Fa '17, Sp '18, Fa '18, Fa '19, Fa '20, Fa '21, Fa '22. Fa '23)

MED 560 Culture in the Mathematics Classroom (Sp '21, Sp '23)

MED 341 Principles of Teaching Secondary Mathematics (Sp '18, Sp '20, Sp '21. Sp '22, Sp '23)

MED 449 Teaching Mathematics with Technology (Fa '22)

MED 703 Teaching and Learning K-12 Mathematics (Fa '19, Fa '22)

MED 700 Cognitive Processes in Mathematics Education (Sp '19, Sp '22)

MATH 181 Fundamentals of Mathematics I-Number and Operations (Fa '17, Fa '19, Fa '20, Fa '21)

STEP 262 Observation & Analysis of Secondary Teaching II (Fa '17, Sp '18, Fa '18, Sp '19, Sp '20)

MED 441 Methods of Teaching Mathematics (Fa '18, Fa '19)

University of Wisconsin-Madison (UW):

C&I 675 Capstone in Secondary Education: Mathematics (Sum '16)

C&I 975 Technology Integration for Teachers and Learners (Sp '16)

C&I 393 The Teaching of Secondary School Mathematics I (Sp '14, Fa '15)

C&I 361 Practicum in Mathematics in the Secondary Classroom (Fa '12, Fa '13)

PROFESSIONAL DEVELOPMENT/IN-SERVICE TEACHER EDUCATION

2018 Professional Development Designer and Facilitator (Greeley-Evans School District 6, Greeley, CO)

Designed and implemented professional development for secondary mathematics teachers (6-12) promoting productive struggle and supporting students to be doers and thinkers of mathematics.

2015-2016 Professional Development Designer and Facilitator (Sun Prairie Area School District, Sun Prairie, WI)

Designed and implemented professional development for secondary mathematics teachers (6-12) promoting the effective use of virtual manipulatives designed to enhance student understanding.

2015-2017 Network Fellow (Wisconsin Center for Education Research, Madison, WI)

Worked with local districts to strengthen the connection between the University of Wisconsin-Madison and area schools. Worked with teachers to provide and align electronic resources and technology-based activities aimed at supporting their mathematics instruction (grades 5-12) to enhance student understanding and engagement.

PROFESSIONAL SERVICE

2022-Present	Educator Preparation Programs Assessment and Reauthorization Team (UNC: EPPART)
2022- Present	Editorial Panel Member for *CITE-Math*
2021	Secondary Teacher Education Program Revisions (UNC)
2020-Present	Mathematics Teacher Preparation Peer Mentor Program (UNC)
2020-Present	Reviewer for *Contemporary Issues in Technology and Teacher Education-Math (CITE-Math)*
2019-Present	MED Comprehensive Exam Committee (UNC)
2019-Present	Reviewer for *The Mathematics Educator (TME)*
2019-Present	Reviewer for *Journal of Mathematics Teacher Education (JMTE)*
2019-Present	Dissertation Advisor (UNC) *Adam Ruff, (in progress)* *Samuel Waters (in progress)* *Lida Bentz, Ph.D. (2022)*
2019-Present	Dissertation and Master Thesis Committees (UNC: MED and ELPS)
2018-Present	Professional Teacher Education Program Advising (UNC)
2018-Present	Professional Teacher Education Program (PTEP) Mathematics Co-Coordinator (UNC)
2018-Present	Secondary Teacher Education Program Coordinating Council (UNC: STEP CC)
2017-2018	School of Mathematical Sciences Ph.D. Committee (UNC)
2017-2018	Teacher Education Alliance, Mines-UNC Partnership (UNC: TEAM-UP)
2017-Present	Reviewer for *Mathematics Teacher: Learning and Teaching PK-12* (formerly *Mathematics Teacher*)
2016-2017	Mathematics Teacher Education Program Lead Coordinator (UW-Madison)
2015-2022	Conference Proposal Reviewer (AMTE, PME-NA)

SELECT PROFESSIONAL DEVELOPMENT

2023	Project Kaleidoscope STEM Leadership Institute (AACU)
2023	NHS Professional Learning Day (UNC)
2020, 2023, 2024	Preparing to Teach Mathematics with Technology (PTMT)
2022	Teacher Educator Technology Competencies (TETCs) Course (AACE)
2020-2021	Inclusive Excellence Teacher-Scholar Program 2020-2021 (UNC)
2019	Building the Base-Mathematics (Quality Teaching for English Learners Summer Institute)
2019	Service, Teaching, and Research (STaR) Fellow (AMTE)
2018-2019	MAA Rocky Mountain Section NExT Fellow (MAA, Rocky Mountain Section)
2017	Safe Zone 101 (Gender & Sexuality Resource Center, UNC)

GRANTS

Submitted — Content-Language Integration in Mathematics Education (National Science Foundation)

This three-year design and development project within the teaching strand aims to develop preservice secondary mathematics teachers' knowledge, skills, and agency for integrating language instruction with mathematics content through the systematic integration of new instructional activities in key teacher preparation courses. The proposed products include a research-based model for content-language integration training, specific course materials, and a better understanding of teacher agency in supporting multilingual learners.

2023	Grant-writing Incentive Program (GRIP) (College of Natural Health Sciences, UNC) Supported the revision of “Content-Language Integration in Mathematics Education (CLIME)” proposal for the National Science Foundation’s DRK-12 program.
2022	Provost Seed Grant (UNC) Supported the development of “Content-Language Integration in Mathematics Education (CLIME)” proposal for the National Science Foundation’s DRK-12 program.
2021	CARES Act Stimulus Funds for RSCW (UNC) Supported the development of “Supporting content-language integration in the mathematics classroom” proposal for the National Academy of Education (NAEd)/Spencer Postdoctoral Fellowship Program

AWARDS

2023	Excellence in Teaching (College of Natural Health Sciences, UNC)
2016	Curriculum and Instruction Graduate Student Fund Travel Award (UW-Madison)
2016	Graduate School Conference Presentation Fund (UW-Madison)
2015	Graduate School Conference Presentation Fund (UW-Madison)
2014	Chadbourne Residential College Honored Instructor

MEMBERSHIPS

Association of Mathematics Teacher Educators
National Council of Teachers of Mathematics