

**Curriculum Vitae**  
***Kristin A. Whitmore, Ph.D.***  
Mathematics Education  
University of Colorado Denver  
School of Education & Human Development  
[kristin.whitmore@ucdenver.edu](mailto:kristin.whitmore@ucdenver.edu)

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**EDUCATION**

<b><u>Institution</u></b>	<b><u>Degree</u></b>	<b><u>Date Received</u></b>	<b><u>Major</u></b>
University of Colorado Denver	Ph.D.	2025	Mathematics Education
Rivier University, NH	M.Ed.	2002	Curriculum and Instruction
Plymouth State University, NH	B.S.	1995	Elementary K-8; Mathematics Minor
<b><u>Certification</u></b>			
Association of College and University Educators (ACUE)	Certificate	2023	Effective College Instruction
Tennessee	Certificate	2017	Elementary K-5; Mathematics 6-8
Alabama	Certificate	2006	Elementary K-6; Mathematics 4-8
Florida	Certificate	2004	Elementary K-6
New Hampshire	Certificate	1995	Elementary K-8

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**PROFESSIONAL EXPERIENCE**

<b><u>Dates</u></b>	<b><u>Position</u></b>
2021 – Present	<b>Mathematics/STEM Instructor, Graduate &amp; Undergraduate</b> School of Education and Human Development University of Colorado Denver, CO
2023 – Present	<b>Alternative Licensure Instructor</b> ASPIRE to Teach University of Colorado Denver, CO
2015 – Present	<b>Private Tutor</b> , Mathematics K-8, Algebra I
2020 – 2024	<b>Graduate Research Assistant</b> School of Education and Human Development University of Colorado Denver, CO
2016 – 2020	<b>Program Director of General Education</b> for Healthcare Programs, <b>Hybrid &amp; Student Success Coordinator, General Education Faculty,</b> <b>HESI Prep Tutor</b> Fortis Institute, Nashville, TN
2018 – 2019	<b>Mathematics Consultant</b> Madison County School District, MS
2016 – 2018	<b>Adjunct Faculty</b> , College Mathematics Brightwood College, Nashville, TN
2016 – 2017	<b>Adjunct Faculty</b> , Undergraduate Studies Argosy University, Nashville, TN

2006 – 2015	<b>Advanced Mathematics Teacher</b> <b>School Leadership Team and Re-Accreditation Lead, Math Chair,</b> <b>Math Team Coach, National Junior Honor Society Adviser</b> Holy Spirit Regional School, Huntsville, AL
2004 – 2005	<b>Grade 4 Teacher</b> Elliott Point Elementary School, Fort Walton Beach, FL
2003 – 2004	<b>Grade 1 Teacher</b> George Seitz Elementary School, U. S. Army Kwajalein Atoll, RMI
2002 – 2003	<b>Pre-Algebra Teacher</b> Kwajalein Jr/Sr High School, U. S. Army Kwajalein Atoll, RMI
1999 – 2002	<b>Security Specialist</b> KRS-Kwajalein Range Services, U. S. Army Kwajalein Atoll, RMI
1996 – 1999	<b>Pre-Algebra Teacher</b> Fairgrounds Middle School, Nashua, NH
1995 – 1996	<b>Paraprofessional, Substitute Teacher</b> Amherst Street Elementary School, Nashua, NH

**RESEARCH EXPERIENCE**

<u>Dates</u>	<u>Position and Project</u>
2020 – 2024	Graduate Research Assistant, ITsCRITiCAL (Implementing Techactivities to Promote Covariational Reasoning and Instructional Transformation in College Algebra – U. S. National Science Foundation award

**PEER-REVIEWED JOURNAL ARTICLES**

<u>Year</u>	<u>Citation</u>
2024	Donovan, C., Johnson, H. L., Knurek, R., <b>Whitmore, K. A.</b> , & Bechtold, L. (2024). Validating a measure of graph selection and graph reasoning for dynamic situations. <i>The Journal of Mathematical Behavior</i> , 73, 101137. <a href="https://doi.org/10.1016/j.jmathb.2024.101137">https://doi.org/10.1016/j.jmathb.2024.101137</a>
2024	Johnson, H. L., Donovan, C., Knurek, R., <b>Whitmore, K. A.</b> , & Bechtold, L. (2024). Proposing and testing a model relating students' graph selection and graph reasoning for dynamic situations. <i>Educational Studies in Mathematics</i> , 115, 387–406. <a href="https://doi.org/10.1007/s10649-024-10299-4">https://doi.org/10.1007/s10649-024-10299-4</a>
20243	Olson, G. A., Johnson, H. L., Robinson, R., Knurek, R., & <b>Whitmore, K. A.</b> (2024). Anchoring inverse and injective functions with techactivities. <i>PRIMUS: Problems, Resources, and Issues in Mathematics Undergraduate Studies</i> , 34 (2). <a href="https://doi.org/10.1080/10511970.2023.2253980">https://doi.org/10.1080/10511970.2023.2253980</a>

**PEER-REVIEWED CONFERENCE PRESENTATIONS AND PROCEEDINGS**

<b>Year</b>	<b>Citation</b>
2025	Johnson, H. L., Donovan, C., <b>Whitmore, K. A.</b> , & Knurek, R. (2025, April 27). <i>Attitudes matter! Student attitudes toward math and graphs mediate their graph reasoning and graph selection</i> [Paper presentation]. American Educational Research Association (AERA). Denver, CO, USA. <a href="https://www.aera.net/Publications/Online-Paper-Repository/AERA-Online-Paper-Repository-Viewer/ID/2190581">https://www.aera.net/Publications/Online-Paper-Repository/AERA-Online-Paper-Repository-Viewer/ID/2190581</a>
2024	Johnson, H. L., Donovan, C., Knurek, R., <b>Whitmore, K.</b> , & Bechtold, L. (2024, July 17–21). Attitudes toward mathematics and graphs influence graph reasoning and selection. In Evans, T., Marmur, O., Hunter, J., Leach, G., & Jhagroo, J. (Eds.), <i>Proceedings of the 47th Conference of the International Group for the Psychology of Mathematics Education</i> (Vol. 3, pp. 105–112). PME. New Zealand. <a href="https://www.igpme.org/wp-content/uploads/2024/06/Vol-3-PME-47-27-06-2024.pdf">https://www.igpme.org/wp-content/uploads/2024/06/Vol-3-PME-47-27-06-2024.pdf</a>
2024	Knurek, R. & <b>Whitmore, K. A.</b> (2024, February 8-10). <i>The four corners activity: Building preservice teachers' understanding of concepts related to additive reasoning</i> [Poster presentation]. AMTE. Orlando, FL, USA.
2023	Donovan, C, Johnson, H. L., Bechtold, L, Knurek, R., & <b>Whitmore, K.</b> (2023, May 4-5). <i>A Rasch Analysis of a Measure of Graph Selection and Reasoning for Dynamic Situations</i> [Paper presentation]. American Educational Research Association (AERA), Virtual: Chicago, IL, USA.
2023	Donovan, C, Johnson, H. L., Bechtold, L, Knurek, R., & <b>Whitmore, K.</b> (2023, April 13-17). <i>Modeling a Relationship between Students' Graph Selection and Reasoning</i> [Paper presentation]. American Educational Research Association (AERA), Virtual: Chicago, IL, USA.
2023	Johnson, H. L., Donovan, C., Knurek, R., <b>Whitmore, K.</b> , & Bechtold, L. (2023, March 20). A link between students' graph reasoning and their attitudes toward mathematics and graphs [Symposium]. <i>ICMI Symposium on Mathematics Education and the Socio-Ecological</i> (pp. 135-138). Online. <a href="https://www.mathunion.org/fileadmin/ICMI/Conferences/Socio%20Ecological/Proceedings-ICMI-symposium-20th-march-2023.pdf">https://www.mathunion.org/fileadmin/ICMI/Conferences/Socio%20Ecological/Proceedings-ICMI-symposium-20th-march-2023.pdf</a>
2023	<b>Whitmore, K. A.</b> , Knurek, R., Johnson, H. L., Bechtold, L., Olson, G., & Donovan, C. (2023, February 23-26) Implementing digital activities in college algebra: Two instructors' views of benefits and challenges. In Cook, S., Katz, B., & Moore-Russo, D. (Eds.). <i>Proceedings of the 25th Annual Conference on Research in Undergraduate Mathematics Education (RUME)</i> (pp. 1092-1097). Omaha, NE, USA. <a href="http://sigmaa.maa.org/rume/RUME25v2.pdf">http://sigmaa.maa.org/rume/RUME25v2.pdf</a>
2018	<b>Whitmore, K.</b> (2018, November 1). ABC, easy as 123: A recipe for good behavior in the classroom. In <i>Lessons Learned: Network with</i>

*experienced educators who want to help you be the best you can be!*  
 [Conference session presentation]. Kappa Delta Pi (KDP) Convocation:  
 Designing the Future, Indianapolis, IN, USA.

## BOOK CONTRIBUTION

- 2014 **Mullins<sup>1</sup>, K.** (2014). Teachers adapting tasks to closely align to CCSSM. In Y. Germain-McCarthy, *Bringing the common core math standards to life: Exemplary practices from middle schools* (pp. 140; 143–146). Routledge. <https://doi.org/10.4324/9781315819778>  
<sup>1</sup>This publication is under former last name, Mullins.

## PROFESSIONAL ORGANIZATIONS

Member since

2025	Leadership in Mathematics Education (NCSM)
2023	Association of Mathematics Teacher Educators (AMTE)
2022	Mathematical Association of America (MAA)
2021	Colorado Math Leaders (CML)
2021	Colorado Council of Teachers of Mathematics (CCTM)
2021	Association for Women in Mathematics (AWM)
2021	American Mathematical Society (AMS)
2021	TODOS: Mathematics for All
2021	American Educational Research Association (AERA)
2011	Association for Supervision and Curriculum Development (ASCD)
2006	National Council of Teachers of Mathematics (NCTM)
1994	Kappa Delta Pi International Honor Society in Education (KDP)

## COURSES TAUGHT

<u>Course</u>	<u>Level</u>	<u>Format</u>	<u>Institution/Department</u>
Expanding Conceptions of Algebra: Algebraic Reasoning Underlying K-12 Common Core Standards MTED 5622/4622	Graduate/ Undergraduate	Online	University of Colorado, Denver School of Education and Human Development (SEHD)
Assessment and Equity in Mathematics Instruction MTED 5301	Graduate	Online	University of Colorado, Denver SEHD
A World of (different) Numbers MTED 5621/4621	Graduate/ Undergraduate	Online	University of Colorado, Denver SEHD
Math for Elementary Teachers MTED 5400/3040	Graduate/ Undergraduate	In-Person, Hybrid	University of Colorado, Denver SEHD
Elementary Math Teaching I MTED 5002/4002	Graduate/ Undergraduate	Online	University of Colorado, Denver SEHD
Exploring Approaches to STEM	Graduate/	Online	University of Colorado, Denver

*updated 8/2025*

STME 5030/4030	Undergraduate		SEHD
Research in Schools RSEM 5080	Graduate	Online	University of Colorado, Denver SEHD
College Mathematics MAT101	Undergraduate	In-Person	Fortis Institute, Nashville, TN
Effective Communication COM 205	Undergraduate	In-Person	Fortis Institute, Nashville, TN
English ENG 101	Undergraduate	In-Person	Fortis Institute, Nashville, TN
Psychology PSY 101	Undergraduate	In-Person	Fortis Institute, Nashville, TN
Sociology SOC 101	Undergraduate	In-Person	Fortis Institute, Nashville, TN
Microbiology BIO 205	Undergraduate	In-Person	Fortis Institute, Nashville, TN
Biology (Co-Instructor) BIO 101	Undergraduate	In-Person, Hybrid	Fortis Institute, Nashville, TN
Pre-Algebra/Introductory Algebra MM 103	Undergraduate	In-Person	Brightwood College, Nashville, TN
U.S. History HUM 101	Undergraduate	In-Person, Hybrid	Argosy University, Nashville, TN
Elementary Mathematics	Grades 4- Algebra	In-Person	Holy Spirit Regional School Huntsville, AL
Elementary, All Subjects	Grade 4	In-Person	Elliott Point Elementary School Fort Walton Beach, FL
Elementary, All Subjects	Grade 1	In-Person	George Seitz Elementary School Kwajalein Atoll, RMI
Pre-Algebra	Grade 7	In-Person	Kwajalein Jr./Sr. High School Kwajalein Atoll, RMI
Pre-Algebra	Grade 7	In-Person	Fairgrounds Middle School Nashua, NH

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