Curriculum Vitae *Kristin A. Whitmore, Ph.D.*

Mathematics Education University of Colorado Denver School of Education & Human Development <u>kristin.whitmore@ucdenver.edu</u>

EDUCATION

Institution	Degree	Date Received	<u>Major</u>
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
<u>Certification</u>			
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

PROFESSIONAL EXPERIENCE

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

2006 - 2015	Grade 4–Algebra I Advanced Mathematics Teacher, School Leadership Team and Re-Accreditation Lead, Math Chair, Math Team Coach, National Junior Honor Society Adviser Holy Spirit Regional School, Huntsville, AL
2004 - 2005	Grade 4 Teacher Elliott Point Elementary School, Fort Walton Beach, FL
2003 - 2004	Grade 1 Teacher George Seitz Elementary School, U. S. Army Kwajalein Atoll, RMI
2002 - 2003	Pre-Algebra Teacher Kwajalein Jr/Sr High School, U. S. Army Kwajalein Atoll, RMI
1999 – 2002	Security Specialist KRS-Kwajalein Range Services, U. S. Army Kwajalein Atoll, RMI
1997 – 1999	Pre-Algebra Teacher Fairgrounds Middle School, Nashua, NH
1995 – 1997	Paraprofessional, Substitute Teacher Amherst Street Elementary School, Nashua, NH
RESEARCH EXPERIENC	E
<u>Dates</u> 2020 – 2024	<u>Position and Project</u> Graduate Research Assistant, ITsCRITiCAL (Implementing Techtivities to Promote Covariational Reasoning and Instructional Transformation in College Algebra – U. S. National Science Foundation award

PEER-REVIEWED JOURNAL ARTICLES

<u>Year</u> 2024	<u>Citation</u> Donovan, C., Johnson, H. L., Knurek, R., Whitmore, K. A., & Bechtold, L. (2024). Validating a measure of graph selection and graph reasoning for dynamic situations. <i>The Journal of Mathematical Behavior</i> , <i>73</i> , 101137. <u>https://doi.org/10.1016/j.jmathb.2024.101137</u>
2024	Johnson, H. L., Donovan, C., Knurek, R., Whitmore, K. A. , & Bechtold, L. (2024). Proposing and testing a model relating students' graph selection and graph reasoning for dynamic situations. <i>Educational Studies in Mathematics</i> , <i>115</i> , 387–406. https://doi.org/10.1007/s10649-024-10299-4
2023	Olson, G. A., Johnson, H. L., Robinson, R., Knurek, R., & Whitmore, K. A. (2023). Anchoring inverse and injective functions with techtivities. <i>PRIMUS: Problems, Resources, and Issues in Mathematics Undergraduate Studies, 34</i> (2). https://doi.org/10.1080/10511970.2023.2253980

PEER-REVIEWED CONFERENCE PRESENTATIONS AND PROCEEDINGS

<u>Year</u> 2025	<u>Citation</u> Johnson, H. L., Donovan, C., Whitmore, K. A. , & Knurek, R. (2025, April 27). <i>Attitudes matter! Student attitudes toward math and graphs</i> <i>mediate their graph reasoning and graph selection</i> [Paper presentation]. American Educational Research Association (AERA). Denver, CO, USA.
2024	Johnson, H. L., Donovan, C., Knurek, R., Whitmore, K. , & 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. <u>https://www.igpme.org/wp-content/uploads/2024/06/Vol-3-PME-47-27-06-2024.pdf</u>
2024	Knurek, R. & Whitmore, K. A. (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., & Whitmore, K. (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., & Whitmore, K. (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., Whitmore, K. , & 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. https://www.mathunion.org/fileadmin/ICMI/Conferences/Socio%20Ecological/Porceedings-ICMI-symposium-20th-march-2023.pdf
2023	Whitmore, K. A., 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. http://sigmaa.maa.org/rume/RUME25v2.pdf
2018	Whitmore, K. (2018, November 1). ABC, easy as 123: A recipe for good behavior in the classroom. In <i>Lessons Learned: Network with experienced educators who want to help you be the best you can be!</i> [Conference session presentation]. Kappa Delta Pi (KDP) Convocation: Designing the Future, Indianapolis, IN, USA.

BOOK CONTRIBUTION

2014

Mullins¹, **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. <u>https://doi.org/10.4324/9781315819778</u> ¹This publication is under former last name, Mullins.

PROFESSIONAL ORGANIZATIONS

Membership 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> Expanding Conceptions of Algebra: Algebraic Reasoning Underlying K-12 Common Core Standards MTED 5622/4622	<u>Level</u> Graduate/ Undergraduate	<u>Format</u> Online	Institution/Department 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	Graduate/	Online	University of Colorado, Denver
MTED 5621/4621	Undergraduate		SEHD
Math for Elementary Teachers MTED 5400/3040	Graduate/	In-Person,	University of Colorado, Denver
	Undergraduate	Hybrid	SEHD
Elementary Math Teaching I	Graduate/	Online	University of Colorado, Denver
MTED 5002/4002	Undergraduate		SEHD
Elementary Math Teaching II	Graduate/	Online	University of Colorado, Denver
MTED 5003/4003	Undergraduate		SEHD
Research in Schools	Graduate	Online	University of Colorado, Denver

updated 4/2025

RSEM 5080			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