

10 AM ET

Session: #11 - Research Paper

"I need to measure the base and the height": Examining Preservice Teacher's Responses top Area Conservation Tasks

Dae Hong, University of Iowa

Exploring PSTS' Responses to Students' Volume Misconceptions

Dae Hong, University of Iowa

Student Gesture & Diagram Use as Assessment Data for Units Understanding

Cathy Kaduk, North Central College

Session: #12 - Research Paper

Formatively Assessing ELs in Mathematics with an Instructional Protocol

Richard Kitchen, University of Wyoming

Culturally Responsive Elementary Mathematics Teaching: A Multi-Case Study

Casedy Thomas, The University of Alabama

Latine family math: co-designing and co-constructing a math activity

Susie Beltran Grimm, Purdue University

Session: #13 - Research Paper

What Foundational Skills Matter for Algebra I Success?

Mary Klute, SRI International

Douglas Van Dine, Marzano Research

Student-Teacher Ratio Impact on Algebra I Achievement

Macie Baucum, Texas A&M University - College Station

Managing students' non-canonical approaches to solving equations: Linguistic resources teachers use to respond to students' mathematical work

Amanda Brown, University of Michigan

Sharon Strickland, Texas State University

Orly Buchbinder, University of New Hampshire

Dan Chazan, University of Maryland

Patricio Herbst, University of Michigan

10 AM ET

Session: #14 - Research Paper

Confronting Pedagogical Inequities in Math Classrooms with Case-Based Instruction

Alesia Moldavan, Fordham University

Monica Gonzalez, East Carolina University

Using Case Studies to Assess Pre-Service Teachers' use of Visual Representations to Solve Mathematics Problems

Amy Scheuermann, MNSU, Manakto

Connecting Preservice and Inservice Teacher Learning: Communities of practice

Damon Bahr, Brigham Young University

Session: #15 - Research Paper

Mathematics Textbooks Content Development at the Primary Stage: A Proposed Vision

Ibrahim Khalil, UNIVERSITY OF BISHA

Mohamed Alnatheer, king Saud University

How Elementary School Teachers Tackle Fraction Word Problems: A Study of Teachers' Strategies and Errors

Yasemin Copur_Gencturk, University of Southern California

11:30 AM ET

Session: #21 - Interactive Session

An Explorative Study on the Implementation of Go Game in Third-Grade Mathematics Classrooms

Xiuwen Wu, National Louis University

Xiuwen Wu, National Louis University

Xinming Guo, Go and Math Academy

11:30 AM ET

Session: #22 - Research Paper

Improving Student Understanding of Symbolic Numerical Magnitude

Delinda van Garderen, University of Missouri - Columbia

Building a Mathematics Education Evidence Base: Fraction Intervention

Jessica Hunt, North Carolina State University

Fifth Grade Students' Conceptions of Number Lines: The Meaning of Tick Marks

Rebecca Borowski, Western Washington University

Session: #23 - Research Paper

Noticing student ideas in writing: How do students articulate the effects of scale factor?

James Bywater, James Madison University

Sarah Lilly, University of Virginia

Jennifer Chiu, University of Virginia

Coordinating Co-Occurrence and Same Extent When Modeling Proportions

Andrew Izsak, Tufts University

Analyzing Student Use of Number Sense Strategies

Patrick Kirkland, University of Notre Dame

Session: #24 - Research Paper

Research, Researchers, and the Mathematics Classroom: What Relationships? What Impacts?

Silvanio De Andrade, UEPB

Developing Mathematics Teachers' Cultural Awareness Through Education Abroad
Blair Izard, University of Northern Iowa

Math Course-taking and Postsecondary Outcomes: Results from a national survey

Burhan Ogut, American Institutes for Research

11:30 AM ET

Session: #25 - Research Paper



Balancing Tensions between Research Fidelity and Math Instructional Improvement at Scale

Craig De Voto, University of Illinois at Chicago

Benjamin Superfine, University of Illinois at Chicago

Alison Castro Superfine, University of Illinois at Chicago

Evaluating the Efficacy of a Learning Trajectories for Early Mathematics

Douglas Clements, University of Denver

Validity Study of the Numerically Leveled Performance Assessment Framework

Eula Monroe, Brigham Young University (Emerita)

1 PM ET

Session: #31 - Posters

Exploring Mathematical Concepts through Quilt Design: An Instructional Intervention

Clare Bell, University of Missouri-Kansas City

Creative Insubordination and Appropriation of Tools for Teaching Elementary Math
Nii Tackie, University of Louisiana at Lafayette

Mathematical Perceptions of Self Among First-time College Freshmen

Katrina Rothrock, University of Wisconsin-Eau Claire

A Proposed Model to Teach Mathematical Knowledge in the Primary Stage

Ibrahim Khalil, UNIVERSITY OF BISHA

Employing the flipped classroom strategy in primary mathematics classes

Ibrahim Khalil, ministry of education

Teacher Usage of Performance Data from Open Educational Resources Predicts Student Achievement

Hannah Hausman, University of California, Santa Cruz

Heuristics from teachers for game-based math learning design and implementation Chih-Pu Dai, Florida State university

Investigating Urban HS Students' Math Attitudes Using Equitable Practices

Brian Dossey, Baylor University

Bob's Engagement in Fraction Multiplication Tasks

Jessica Hunt, North Carolina State University

Are Pre-Pandemic Programs Enough? A Review of Early Math Interventions

Robyn Pinilla, Southern Methodist University

Elementary teachers' reports of their mathematics instruction before and during the COVID-19 pandemic

Babette Moeller, Education Development Center

Obstacles in learning Horizontal Transformation of Functions

Yuriko Brown, The Pennsylvania State University

Enacting Tutoring Best Practices in a University-School System Partnership Model

Tyreeka Williams, North Carolina AT State University

Thomas Coleman, North Carolina A&T State University

Faith Freeman, Guilford County Schools

Building an Anti-deficit Framework for Valuing Thinking About .999...=1

Josh Hertel, University of Wisconsin - La Crosse

Examining the Intentionality and Purposefulness in Building and Sustaining Educational Partnerships

Trena Wilkerson, Baylor University

Colleen Eddy, University of North Texas

Megan Che, Clemson University

Jamaal Young, Texas A & M University

Exploring a Student's Self-Regulatory Activities in Tasks of Varying Cognitive Demands

T. Royce Olarte, University of California, Santa Barbara

2 PM ET

Session: #41 - Interactive Session

Funding Opportunities for Mathematics Education Research at the National Science Foundation

Margret Hjalmarson, National Science Foundation

Deena Khalil, National Science Foundation

Eric Knuth, National Science Foundation

Session: #42 - Research Paper

A Case Study of Reform Efforts to Improve Math Instruction Through Coordinated PD
Astin Sarrell, Jacksonville State University

Using and Transforming Mathematics Education Pedagogy in a Broadcast Setting

Jessica Hunt, North Carolina State University

Acts towards Entry, Engagement and Empowerment for/with Emergent Bilinguals
Ricardo Martinez, University of Nebraska-Lincoln

Session: #43 - Research Paper

Exploration of Visual Art and 3D Geometry Approaching Mathematical Modeling

Rose Mary Zbiek, The Pennsylvania State University

Gina Foletta, The Pennsylvania State University

Persistence of playing school: Examining an immersive 90-day semester-program for shaping students' mathematical perceptions and practices

Amanda Brown, University of Michigan

Justin Dimmel, University of Maine

Carolyn Hetrick, University of Michigan

Ed Silver, University of Michigan

Chandler Brown, University of Michigan

Investigating Possibilities for Aesthetics of Inquiry in Math Education

Alesia Moldavan, Fordham University

Session: #44 - Research Paper

Using Community Funds of Knowledge to Write Mathematical Problems

Ricela Feliciano-Semidei, Northern Illinois University

MARIANA RICKLEFS, Northern Illinois University

Personalization of College Precalculus Tasks: Impacts of Task Construction

Lauretta Garrett, Tuskegee University

Li Huang, Tuskegee University

Kelly Guest, Tuskegee University

Byunghoon Lee, Tuskegee University

Task Design Cycle and Preservice Elementary Teachers' Understanding of Properties of Quadrilaterals

Seyedehkhadijeh Azimi Asmaroud, Illinois State University

Jeffrey Barrett, Illinois State University

Session: #45 - Interactive Session

Leveraging Coaches to Close Middle School Math Teachers' Knowing-Doing Gap

Jennifer Gonzales, Baylor

Jennifer Gonzales, Baylor

3:30 PM ET

Session: #51 - Interactive Session

Art and technology in online teaching and learning of middle school geometry: Deepening geometrical thinking of preservice and in-service teachers

Irina Lyublinskaya, Teachers College, Columbia University

Marta Cabral, CUNY College of Staten Island

Irina Lyublinskaya, Teachers College, Columbia University

Marta Cabral, CUNY College of Staten Island

Session: #52 - Research Paper

Challenges in Assessing Teachers' Pedagogical Representation Competence

Jinqing Liu, Indiana University Bloomington

Erik Jacobson, Indiana University Bloomington

PAVNEET BHARAJ, Indiana University Bloomington

Theodore Savich, Indiana University Bloomington

An Examination of Elements of Effectiveness of Experienced Elementary Mathematics Teachers Entering Professional Development

Kayla Myers, Georgia State University

Susan Auslander, Georgia State University

Jedonia Cooper, Gwinnett County Public Schools

Angela Turner, Gwinnett County Public Schools

Abriel Moore, Gwinnett County Public Schools

Investigating Inservice Elementary Teachers' Mathematics Efficacy

Baye Ballew, Saint Leo University

Giang-Nguyen T. Nguyen, University of West Florida

Session: #53 - Research Paper

"Quiero Llegar a Ser Alguien": Community Cultural Wealth in Math Classrooms

Kevin Pelaez, San Diego State University

Ernesto Calleros, San Diego State University

Jose Parra, San Diego State University

William Zahner, San Diego State University

Self-Determination Theory and Middle School Mathematics Teachers

Amy Crawford, Ashland University

Transforming Prognostic Framing as Evidence of Mathematics Teacher Learning in a Collegial Community of Practice

Joseph DiNapoli, Montclair State University

Session: #54 - Research Paper

Developing Preservice Teachers' Noticing of Knowledge Bases and Productive Struggle
Shawnda Smith, Texas Woman's University

What do AP Calculus teachers believe leads students to be successful in their course?

NCTM HATIONAL COUNCIL OF TEACHERS OF MATHEMATICS

January 7, 2022

Veronica Faraci, St. John's University

Pedagogical Content Knowledge of Statistics: It's Not Just for Teacher Preparation Programs Anymore

Randall Groth, Salisbury University

Session: #55 - Research Paper

Online Homework Support Changes Mathematics Teaching Practices

Mingyu Feng, Wested

Middle School Students' Use of Literacy Strategies in Solving Mathematical Word Problems

JANE WILBURNE, Penn State Harrisburg

5 PM ET

Session: #61 - Interactive Session

A study involving diagnostic competence and virtual-reality simulations

Enrique Ortiz, University of Central Florida

Enrique Ortiz, University of Central Florida

Session: #62 - Research Paper

Zearn Math Curriculum Efficacy During Quarantine and a Typical Year

Katherine Pettrey, Louisiana State University (Unable to Present Live).

Impact of Online Professional Learning on Early Math Teacher's Perspectives of Practice

Jessica Hunt, North Carolina State University

Using a Tablet App to Foster Data Collection and Analysis Learning with Preschoolers

Ashley Lewis Presser, EDC

Jessica Young, EDC

Session: #63 - Research Paper

A Case Study of Teachers' Use of an Online Homework Tool During In-Person and Remote Instruction

Jamie Gillespie, The Friday Institute for Educational Innovation, NC State

Kevin Winn, The Friday Institute for Educational Innovation, NC State

Malinda Faber, The Friday Institute for Educational Innovation, NC State

A Longitudinal Analysis of Perceived Teacher and Peer Support on Motivation and Achievement in High School Mathematics

James Middleton, Arizona State University

Relational Tenacity in Teacher-Student Relationships during COVID

Drew Nucci, University of Washington

Session: #64 - Research Paper

Synthesizing Research to Elevate Mathematics Specialist Positioning

Courtney Baker, George Mason University

Katherine Edwards, George Mason University

Kristin Harbour, University of South Carolina

Evthokia Saclarides, University of Cincinnati

Margret Hjalmarson, George Mason University

Understanding Mirroring Effects in Coaching on Mathematics Teaching Practice

Hillary Henry, The University of Pittsburgh

Exploratory analysis on research in mathematics teachers knowledge

Eunhye Cho, Stonehill College

Session: #65 - Interactive

Getting published in JRME and MTE, and more.

Patricio Herbst, University of Michigan, JRME Editor

Michael Steele, National Science Foundation, MTE Editor

6:30 PM ET

Session: #71 - Keynote Session

Keynote - Can research care about people?: Research roles and methods for community building.





Theodore Chao, The Ohio State University

Melissa Adams Corral, California State University—Stanislaus