

# Research Council on Mathematics Learning (RCML)

## 2024 Call for Proposals

### *Framing the Future of the Field*



The 51<sup>st</sup> Annual Conference of the Research Council on Mathematics Learning (RCML) will be held in **Columbia, South Carolina, February 29-March 2, 2024** at the University of South Carolina Alumni Center. The purpose of the RCML conference is to share current research in mathematics education, and within this context we ask all potential presenters to submit scholarship that reflects on the past and provides directions for the future in mathematics learning. The conference planning committee encourages proposals of completed research studies and works-in-progress.

*Framing the Future of the Field* in mathematics education research involves exploring and envisioning the direction mathematics education research should take in the coming years. Here are some recommendations to connect this year's theme to your work:

1. **Exploring Emerging Technologies in Mathematics Education:** Technological advancements are expected to have a significant impact on the future of mathematics education. Researchers can investigate how emerging technologies such as artificial intelligence, virtual reality, gamification, and adaptive learning platforms can be integrated into the classroom to enhance mathematical learning outcomes.
2. **Addressing Equity and Inclusion in Mathematics Education:** Framing the Future of Mathematics Education Research should consider the goal of making math education more inclusive and equitable. Researchers can focus on studying effective strategies to close achievement gaps among various demographic groups, dismantle systemic barriers, and promote access to high-quality math education for all students.
3. **Developing Innovative Teaching Approaches:** Innovative pedagogical approaches and instructional methodologies in mathematics education are necessary for the evolution of the field. This could include exploring inquiry-based learning, project-based learning, flipped classrooms, and other student-centered methods that engage students and foster deep mathematical understanding.
4. **Promoting Mathematical Thinking and Problem-Solving Skills:** The future of mathematics education research should prioritize investigating ways to cultivate critical thinking and problem-solving skills among students. Research in this area can explore the impact of different instructional practices on students' ability to reason, analyze, and apply mathematics in real-life contexts.

5. **Assessing Mathematics Curriculum and Standards:** As educational systems evolve, researchers can critically evaluate existing mathematics curricula and standards and propose improvements or alternative approaches. This involves considering the relevance of topics, coherence in content, and alignment with real-world needs.
6. **Enhancing Teacher Professional Development and Preservice Teacher Education:** We encourage submissions related to effective professional development for mathematics teachers. Investigating the most impactful approaches to support teacher growth, knowledge, and instructional practices can lead to better-prepared educators who can foster student success.
7. **Exploring Interdisciplinary Connections:** Mathematics is interconnected with various disciplines such as science, engineering, economics, and the social sciences. We encourage researchers to explore the potential of interdisciplinary approaches to teaching and learning mathematics, preparing students for future career opportunities.
8. **Studying the Impact of Socio-Cultural Factors:** Understanding the influence of socio-cultural factors on students' attitudes and perceptions towards mathematics is vital for shaping the future of mathematics education. Research in this area can provide insights into creating culturally responsive and relevant math instruction.
9. **Investigating Assessment and Feedback Practices:** We are soliciting research examining innovative assessment methods and feedback mechanisms that promote continuous improvement in mathematical understanding and skill development.
10. **Considering Global Perspectives on Mathematics Education:** Framing the future of the field should also involve recognizing and incorporating diverse global perspectives on mathematics education. Comparative studies of different educational systems and practices worldwide can offer valuable insights and inform best practices.

We are now accepting proposals! Please be prepared to address how the proposed research addresses the organization's mission, as stated here:

*The Research Council on Mathematics Learning seeks to stimulate, generate, coordinate, and disseminate research efforts designed to understand and/or influence factors that affect mathematics learning.*

**Speaker proposals must be submitted no later than Sunday October 1, 2023, to the RCML website at [www.rcml-math.org](http://www.rcml-math.org)**

Additionally, RCML publishes conference proceedings of select manuscripts that have been accepted as conference presentations. Acceptance of a proposal does not guarantee acceptance of the associated manuscript publication for the proceedings; however, all authors whose conference proposals have been accepted are invited to submit a manuscript based on their proposal. **Manuscripts proposed for the conference proceedings are due by Sunday October 29, 2023.** Before submitting your manuscript, please review the Proceedings Submission Guidelines on the [RCML website](http://www.rcml-math.org). Conference proposals and manuscripts submitted to the *RCML Proceedings* are **peer reviewed**. The lead author on the proceedings manuscript *must* register for

the conference. Join us in 2024 in Columbia, South Carolina. If you have questions, please contact us via email at the address below:

Jamaal Young, VP for Conferences  
[rcmlconference@gmail.com](mailto:rcmlconference@gmail.com)