Rigorous Research in Secondary Math and Science Classrooms

Rigorous evaluations of instructional interventions are easy to design on paper, but far more difficult in the messy context of educational institutions. Thus, classroom-based research studies require artful design and thoughtful synthesis to create meaningful assessments, accommodate individual students, and prepare teachers to implement interventions with fidelity.

This invited session brings together researchers that conduct rigorous research in middle and high school classrooms with the aim of improving student learning in math and science. The talks will address questions such as:

- How can we create reliable and valid learning measures that tap into what is essential about math or science learning, rather than what is easy to test?
- How can interventions support individual differences across students?
- What teacher supports (e.g., professional development, communities of practice) enable effective interventions?

Each speaker will have 15-20 minutes to present followed by audience questions and group discussion.