

## Department of Mathematics and Statistics Colloquium

### *Creating a Shareable Knowledge Base for Teaching: Preparing and Supporting Secondary Mathematics Teachers*

Job Candidate

Abstract: Research in mathematics education is critical for improving teaching and providing students a quality education. Teachers play an integral role in fostering students' growth in becoming educated citizens who are able to employ sound mathematical and statistical reasoning. In this talk, I will discuss my research program, focusing on the use of well-designed studies to support pre- and in-service secondary mathematics teachers in this capacity and advance their preparation and development in sustainable ways. In particular, I will explore the development and use of annotated lesson plans as a means to support in-service teachers' use of technology as a cognitive tool. Additionally, I will highlight how annotated lesson plans aid pre-service teachers in making connections between the mathematics they study as undergraduates and the mathematics they will teach. I will also take this opportunity to briefly share my vision for what research under my direction will bring to the Department of Mathematics and Statistics at James Madison University.

**Thursday, November 9 at 3:45 in Roop 103**

**Refreshments at 3:30**