Investigating Students’ Constructions of Frames of Reference, Coordinate Systems, and Graphs

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2:15–3:15pm in Derrick 328
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Abstract: My main research interest is in building conceptual models of how students think mathematically. More specifically, my primary research activities have focused on investigating how students make sense of and construct frames of reference, coordinate systems, and graphs. In this talk, I present an overview of my research program: I will discuss the theoretical pieces that undergird my research, highlight some of my main research findings/accomplishments—conceptual models, theoretical distinctions, and task design—and share my future research directions.

Dr. Lee received her Ph.D. in mathematics education from the University of Georgia and is an Assistant Professor in the department of mathematics at Texas State University. Her main research interest is in investigating students’ mathematical thinking—specifically, in the areas of spatial and quantitative reasoning—and in learning how teachers can facilitate and support their students’ mathematical thinking.