Stephanie Slater is the Director at the Center for Astronomy & Physics Education Research (CAPER), an international collaborative of discipline based education researchers. Her research focuses on students’ conceptual understanding and scientific practices within the geosciences, and the roles that spatial thinking, cognitive load and cultural identity play in supporting those constructs. Recent inquiry has involved the ways in which movement of the body can support spatial thinking, reduce cognitive load and improve memorization of complex data. She is the author of several books, including “Discipline Based Education Research: A Scientist's Guide,” part of the Scientific Teaching series.