TEXAS STATE UNIVERSITY

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BVI student access to the STEM education pipeline: Mental imageries of congenitally blind students in collegiate-level Calculus

Nell Wackwitz
Mathematics Department, Texas State University

1:00 pm in Derrick Hall 238
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Abstract: First and foremost, in this research, I have the dream to increase access for every blind or visually impaired (BVI) student in college, to open up the science, technology, engineering, and mathematics (STEM) fields to *all* students who desire these courses of study. Second, I have the goal to help secondary and college instructors understand how BVI students learn and process highly visual mathematics, to give STEM professors a better repertoire of some of the pedagogic needs of BVI students. Finally, I plan to find those elements in how blind students learn highly visual skills, which may inform our knowledge of how other non-visual students learn mathematics, and which would benefit our teaching of mathematics to *all* students.

Nell Wackwitz Eichler is a doctoral student at a Texas State University, where she teaches and does research. Her passions are mathematics, teaching, and working with the blind and visually impaired, so teaching mathematics to totally blind students is her dream. Ms. Wackwitz has taught for over twenty years, and she plans to continue to teach and continue to work with blind students in some capacity, after she completes her degree.