

Colloquium

UNIVERSITY OF GEORGIA
DEPARTMENT OF STATISTICS

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“Technology, practice, and curriculum: Links to Student Achievement and Understanding”

In this talk, I will begin by providing a brief overview of my mathematics and statistics education research. This work has focused on understanding how teaching practices influence student achievement. More specifically, I am interested in exploring how technology can be used to improve learning in mathematics and statistics, how teacher knowledge affects student achievement, and how curriculum influences practice.

The second part of the talk will then focus on the specific portion of the research related to curriculum. The study examines whether the statistics content contained in the three NSF funded elementary level curricula Investigations in Number, Data, and Space, Math Trailblazers, and Everyday Mathematics aligns with the Guidelines for Assessment and Instruction in Statistics Education (GAISE) report recommendations. Results indicate that there are notable differences in the content covered and depth of coverage across the curricula. Similarities in depth of coverage are found along the content dimensions "Formulate Questions" and "Analyze Data". However, differences emerge in "Data Collection" and "Interpret Results".

Wednesday, February 16th, 2011

ROOM 306

Statistics Building

University of Georgia

Athens, GA 30602

3:00 P.M. – Refreshments, Room 230 (The Cohen Room)

3:30 P.M. – Talk, Room 306, Statistics Building