

OHIO UNIVERSITY
DEPARTMENT OF MATHEMATICS

COLLOQUIUM

ABSTRACT

Based on data from think-aloud and semi-structured interviews, I identify the strategies undergraduate students use to verify propositions and produce, as well as, evaluate their productions. In this talk, I discuss the processes through which secondary math education and math majors: (1) determine the truth and falsity of statements; (2) produce a proof or a counterexample, depending on whether they believe a statement to be true or false; and (3) evaluate their own productions from beliefs they and their instructors hold. The findings suggest that more attention should be paid to teaching and learning proofs and counterexamples, as participants showed difficulty in verifying and writing these statements and held different perspectives on evaluating their own productions.

Prove or Disprove? Undergraduate Students' Evaluations and Productions

Presented by:

Yi-Yin (Winnie) Ko

University of Wisconsin-Madison

Monday, February 22

4:10 pm

326 Morton Hall

Refreshments will be served in 325 Morton Hall at 3:30 pm



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