

CS UNDERGRADUATE HONORS THESIS DEFENSE  
SEMINAR

*Live-Coding in Introductory Computer Science Education*

Amy Shannon

**Abstract:** Live-coding, an active learning technique in which students create code solutions during class through group discussion, is an under-used method in computer science education. However, this technique may produce greater learning gains than traditional lectures while requiring less time and effort from the instructor. We begin with a discussion of active learning techniques in STEM disciplines and then present a study to evaluate this instructional method in introductory Computer Science courses. While our results were inconclusive, we discuss several interesting and positive trends related to our live-coding results that deserve further investigation.

Friday, April 4, 2014, 10:00 am  
Mathematics and Science Center: W306

MATHEMATICS AND COMPUTER SCIENCE  
EMORY UNIVERSITY