

Title: Graphs and Circuits

Speaker: Brandon Coya, UC Riverside and CPP Alum

Date: Thursday April 20

Time and Location: 12:00-12:50pm in 3-1616

Abstract: Circuits have been widely studied in electrical engineering and physics. In this talk we will view circuits as special types of graphs. First we will look at which graph property determines the behavior of a circuit. Additionally we look at circuits in a "compositional way," meaning that we can stick circuits together to form larger ones. This comes from allowing our graphs to have distinguished nodes be inputs or outputs. We can then understand any circuit by breaking it up into smaller pieces and first understanding the behavior of the smaller pieces.