

**RYERSON UNIVERSITY**  
**DEPARTMENT OF MATHEMATICS**  
**GRAPHS AT RYERSON (G@R) SEMINAR**

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Date: Friday, March 2, 2018

Time: 3pm

Location: ENG 210

**Graph Searching Games and Probabilistic  
Methods**

**Abstract:**

The application of probabilistic methods to graph searching problems such as the game of Cops and Robbers and Firefighting is a new topic within graph theory. Research on this topic emerged only over the last few years, and as such, it represents a rapidly evolving and dynamic area. Probability enters the picture in three different ways: 1) graph searching games can be played on random graphs; 2) one of the players can make random moves; 3) probabilistic methods can be used to prove results about deterministic games. During the talk, I will show a few examples from each class.

**ALL FACULTY, STAFF, STUDENTS AND GUESTS ARE WELCOME TO ATTEND**