Stanford University
Departments of Mathematics and Statistics

PROBABILITY SEMINAR

*** Extra Seminar: Special Time ***
3pm, Thursday, February 16, 2017
Sloan Mathematics Center Room 384H

Speaker: Brett Kolesnik, University of British Columbia

Title: Thresholds for contagious sets in random graphs

Abstract:
Bootstrap percolation with threshold \( r \) on a graph \( G \) evolves as follows: initially some of its vertices are infected, and then any vertex with at least \( r \) infected neighbors becomes infected. On the Erdős–Renyi graph \( G(n,p) \) we identify the sharp threshold for \( p \), above which there is with high probability a set of size \( r \) whose infection results in the infection of the entire graph.

This is joint work with Omer Angel.