



**Department of Mathematics and Statistics**

**Thursday, April 28<sup>th</sup>, 2016**

12:45 – 2:00 pm, Adel Mathematics Bldg., Room 164

**Dr. Francis Su**  
Harvey Mudd College

Honors week *Advanced Talk*

## Combinatorial Fixed Point Theorems

**Abstract:** The Brouwer fixed point theorem and the Borsuk-Ulam theorem are beautiful and well-known theorems of topology that admit combinatorial analogues: Sperner's lemma and Tucker's lemma. In this talk, I will trace recent connections and generalizations of these combinatorial theorems, including applications to the social sciences. Some of this work includes research with undergraduates.

Algebra Combinatorics Geometry and Topology (ACGT) Seminar meets Tuesdays, 12:45 – 2:00 pm, AMB 164.

Applied Math Seminar (AMS) meets Thursdays 12:45 – 1:45 pm, AMB 164.

Look for announcement. At this time no speaker is scheduled.

Friday Afternoon Undergraduate Mathematics Seminar (FAMUS) meets Fridays, 3pm, AMB 164.