



**Department of Mathematics and Statistics**

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

4:00 – 5:00 pm, **\*\* LMC \*\***, **Room #221**  
(refreshments at 3:45)

**Dr. Francis Su**  
Harvey Mudd College

Honors week *General Talk*

## Voting in Agreeable Societies

**Abstract:** When does a majority exist? How does the geometry of the political spectrum influence the outcome? What does mathematics have to say about how people behave? When mathematical objects have a social interpretation, the associated results have social applications. We will show how some classical mathematics about the geometry of sets and their intersections can be used to model people's preferences and understand voting in "agreeable" societies. This talk also features 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.

Watch for announcement. No speakers scheduled at this time.

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