

The SUMO Speaker Series for Undergraduates

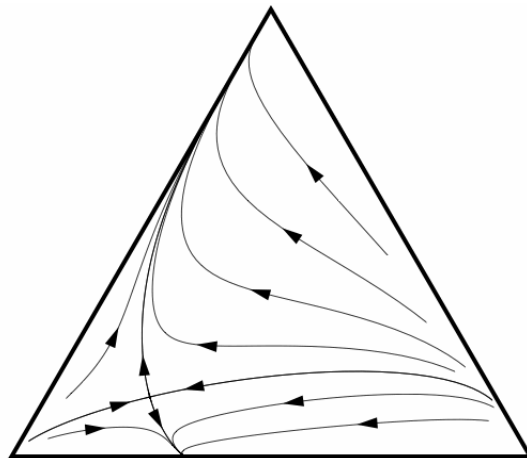
(Food Provided)

Wednesday, February 29th

4:15-5:05, room 380C

Evolutionary games: theory and experiments

Michael Manapat (Google)



ABSTRACT:

Evolutionary game theory lies at the intersection of mathematics, economics, and biology and is concerned with providing ultimate and not just proximate explanations for cooperation, selfishness, trust, and other behavior. Insights from stochastic processes and dynamical systems can explain "irrational" behavior that is inconsistent with classical economic theory. In this talk, I will give an overview of evolutionary game theory, emphasizing the evolutionary game theorist's reliance on both mathematics and behavioral experiments. Time permitting, I will discuss new work on the resolution of the "Traveler's Dilemma" via probabilistic arguments.

sumo.stanford.edu/speakers