

RUTGERS UNIVERSITY
DEPARTMENT OF STATISTICS AND BIostatISTICS
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Seminar

Speaker: **Professor Tze Lai**
Department of Statistics
Stanford University

Title: **Multi-armed Bandits with Covariates: Theory and Applications**

Time: **3:20 – 4:20pm, Wednesday, September 17, 2014**

Place: **552 Hill Center**

Abstract

Multi-armed bandits with covariates, also called "contextual bandits" in machine learning, have become an active area of research in recent years because of their applications to the development of personalized strategies in translational medicine and in recommender systems for web-based marketing and electronic business. After a brief review of classical (context-free) bandit theory, we describe a corresponding theory for contextual bandits and illustrate its applications to personalized strategies.

**** Refreshments will be served @2:50pm in Room 502 Hill Center ****