



UNIVERSITY OF CALIFORNIA RIVERSIDE

DEPARTMENT OF MATHEMATICS

COLLOQUIUM

Dr. Cheng Ly
(Postdoctoral Scholar, University of Pittsburgh)

"Mathematical Neuroscience: Stochastic Neural
Behavior"

Abstract:

The brain is arguably the most complex "system" ever encountered. The goal is to understand how neurons behave in different situations as a starting point. However, neurons are extremely complicated exhibiting stochastic behavior on various levels. Investigations into the underlying mechanisms of neural networks crucially depend on mathematical techniques ranging from numerical methods, dynamical systems, probability theory, statistics, etc. This talk will highlight some theoretical tools that have been developed, as well as their applications.

Wednesday, March 3rd, 2010

Surge 284

4:10-5:00pm

Tea Time at 3:40pm