Mathematical Biology at University of Pittsburgh

Faculty: *Ermentrout, Rubin, Swigon*

Research:
Neuroscience → rhythm generation, multiple timescale dynamics, olfaction and navigation, dynamics on networks, learning and decision-making, Parkinson's disease, deep brain stimulation, schizophrenia

Inflammation, influenza and other diseases, wound healing, DNA dynamics, parameter estimation & uncertainty quantification

Context: *interdisciplinary collaborations and centers (Program in Neural Computation, Center for Inflammation Research and Modeling), next door to med school and Carnegie Mellon University, Center for Research Computing*

Funding: *multiple external grants including NeuroNex, CRCNS, NSF; internal fellowships*

Recent graduates:
Jeremy Harris, Emory (postdoc)
Ben Letson, SFL Scientific
Youngmin Park, Brandeis (postdoc)
Ivan Ramirez, U. Memphis (postdoc)
Abby Snyder, Pacific Northwest Natl. Lab
Yangyang Wang, U. Iowa (tenure track)
Glenn Young, Kennesaw State (tenure track)

Current group: *12 graduate students, 3 postdocs, additional theorists in Comp Bio, Physics, Neuroscience; weekly whole-group meetings; courses in Mathematical Biology, Mathematical Neuroscience, Dynamical Systems, Stochastic Dynamics*