

TEMPLE UNIVERSITY  
Department of Mathematics

# Applied Mathematics and Scientific Computing Seminar

Room 617 Wachman Hall

Wednesday, 4 September 2019, 4:00 p.m.

## Modeling Neurons

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**Abstract.** In the first part of this talk we will present fundamental models of electrical and biochemical signal processing in neurons at different scales. The second part will concentrate on methods for discrete representations of neurons and their organelles, as well as computational methods for solving the model systems.