List of Publications

Youngmin Park

- 1. Park, Y., Wilson, D. "High-Order Accuracy Computation of Coupling Functions for Strongly Coupled Oscillators." SIAM Journal on Applied Dynamical Systems 20.3:1464–1484 (2021).
- Park, Y., Fai, T.G. "The Dynamics of Vesicles Driven Into Closed Constrictions by Molecular Motors." Bulletin of Mathematical Biology. 82.141 (2020).
- 3. Park, Y., Geffen, M.N. "A Circuit Model of Auditory Cortex." PLOS Computational Biology. 17.6:e1008016 (2020).
- 4. Ermentrout, G.B., **Park, Y.**, Wilson, D. "Recent advances in coupled oscillator theory." Philosophical Transactions A. 377. (2019).
- Park, Y., Ermentrout, G.B. "A Multiple Timescales Approach to Bridging Spiking- and Population-level Dynamics." Chaos 28.8:083123 (2018).
- Park, Y., Ermentrout, G.B. "Scalar Reduction of a Neural Field Model with Spike Frequency Adaptation." SIAM Journal on Applied Dynamical Systems 17.1:931–981 (2018).
- Park, Y., Shaw, K.M. Chiel, H.J. Thomas, P.J. "The Infinitesimal Phase Response Curve of Oscillators in Piecewise Smooth Dynamical Systems." European Journal of Applied Mathematics 29.5:905–940 (2018).
- 8. Park, Y., Ermentrout, G.B. "Weakly Coupled Oscillators in a Slowly Varying World." Springer Journal of Computational Neuroscience 40.3:269–281 (2016).
- Shaw, K.M., Park, Y-M., Chiel, H.J., Thomas, P.J. "Phase Resetting in an Asymptotically Phaseless System: On the Phase Response of Limit Cycles Verging on a Heteroclinic Orbit." SIAM Journal on Applied Dynamical Systems 11.1:350–91 (2012).

Recently submitted:

- Park, Y., Fai, T.G. "Coarse-grained Stochastic Model of Myosin-Driven Vesicles into Dendritic Spines"
- 2. Fai, T.G., Park, Y. "Global Asymptotic Stability of an Active Disassembly Model of Flagellar Length Control." https://arxiv.org/abs/2010.08163.