List of Publications

Youngmin Park

1. **Park, Y.**, Fai, T.G. "The Dynamics of Vesicles Driven Into Closed Constrictions by Molecular Motors." Bulletin of Mathematical Biology. 82.141 (2020).

2. **Park, Y.**, Geffen, M.N. "A Circuit Model of Auditory Cortex." PLOS Computational Biology. 17.6 (2020): e1008016.

3. Ermentrout, G.B., **Park, Y.**, Wilson, D. "Recent advances in coupled oscillator theory." Philosophical Transactions A. 377. (2019).

4. **Park, Y.**, Ermentrout, G.B. "A Multiple Timescales Approach to Bridging Spiking- and Population-level Dynamics." Chaos 28.8 (2018): 083123.

5. **Park, Y.**, Ermentrout, G.B. "Scalar Reduction of a Neural Field Model with Spike Frequency Adaptation." SIAM Journal on Applied Dynamical Systems 17.1 (2018): 931–981.

6. **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 (2018): 905–940.

7. **Park, Y.**, Ermentrout, G.B. "Weakly Coupled Oscillators in a Slowly Varying World." Springer Journal of Computational Neuroscience 40.3 (2016): 269–281.

8. 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 (2012): 350–91.

Recently submitted:

1. Fai, T.G., **Park, Y.** "Global Asymptotic Stability of an Active Disassembly Model of Flagellar Length Control." `https://arxiv.org/abs/2010.08163`.

2. **Park, Y.**, Wilson, D. "High-Order Accuracy Computation of Coupling Functions for Strongly Coupled Oscillators." `https://arxiv.org/abs/2010.01194`.