Youngmin Park

Personal Data

Date of Birth:	28 October 1988
Citizenship:	USA
Address:	301 Thackeray Hall Pittsburgh, PA 15260
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Education

Aug. 2013 – May 2018	(Expected) PhD Mathematics, **University of Pittsburgh** Advisor: Bard Ermentrout
Sep. 2016	Advanced Computational Neuroscience **Max Planck Institute for Dynamics and Self Organization** Göttingen, Germany
Aug. 2015	Methods in Computational Neuroscience **Marine Biological Laboratory**, Woods Hole, MA
Aug. 2012 – Aug. 2013	MS Applied Math **Case Western**, Cleveland, OH Thesis: Infinitesimal Phase Response Curves for Piecewise Smooth Dynamical Systems | Advisor: Peter J. Thomas
Aug. 2008 – Aug. 2013	BS Applied Math **Case Western**, Cleveland, OH

Publications

Park, Y., Ermentrout, G.B. "Limit Cycles and Chaos in a Neural Field Model with Spike Frequency Adaptation." (in preparation)

Park, Y., Shaw, K.M. Chiel, H.J. Thomas, P.J. "The Infinitesimal Phase Response Curve of Oscillators in Piecewise Smooth Dynamical Systems." Nonlinearity. (submitted)

Park, Y., Heitmann, S., Ermentrout, G.B. "The Utility of Phase Models in Studying Neural Synchronization." Wiley-Blackwell 2016. (Accepted for publication)

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

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.

Invited Presentations

"Weakly Coupled Oscillators in a Slowly Varying World". Oral presentation at SIAM Conference on Applications of Dynamical Systems, Snowbird, Utah, May 24, 2017.

"Weakly Coupled Oscillators in a Slowly Varying World". Oral presentation at SIAM Conference on the Life Sciences, Boston, MA, July 13, 2016.

Teaching

	University of Pittsburgh
Summer 2017	Differential Equations (lecture, 14 students)
Fall 2016	Business Calculus (recitation x3, 20–24 students each)
Summer 2016	Differential Equations (lecture, 23 students)
Spring 2016	Calculus 3 (recitation, 28 students)
Fall 2015	Calculus 1 and 2 (recitation, 25 students each)
Summer 2015	Matrices and Linear Algebra (lecture, 27 students)
Spring 2015	Discrete Mathematical Structures (lecture, 33 students)
Fall 2014	Calculus 1 (recitation x3, 25 students each)
Summer 2014	Differential Equations (lecture, 9 students)
Fall 2013	Business Calculus (recitation, 23 students)
	Oberlin College
Winter 2013	Computational Neuroscience course assistant for Keith Downing

Honors and Awards

2017-2018	Andrew Mellon Predoctoral Fellowship
2016	Elizabeth Baranger Teaching Award (nominated)

Computer Skills

Web:	Drupal, HTML/CSS, PHP
Research:	MCell/DReAMM, R, NEURON, UNIX, Mathematica, XPP
Languages:	Python (Numpy, Scipy, Matplotlib), Perl, MATLAB