

Youngmin PARK

PERSONAL DATA

DATE OF BIRTH: 28 October 1988
CITIZENSHIP: USA
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EDUCATION

MAY 2018 (Expected) PhD Mathematics, **University of Pittsburgh**
Advisor: Bard Ermentrout

AUGUST 2015 Methods in Computational Neuroscience
Marine Biological Laboratory, Woods Hole, MA

AUGUST 2013 MS Applied Math **Case Western**, Cleveland, OH
Thesis: Infinitesimal Phase Response Curves for Piecewise Smooth
Dynamical Systems | Advisor: Peter J. Thomas

AUGUST 2013 BS Applied Math **Case Western**, Cleveland, OH

PUBLICATIONS

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. (submitted)

Park, Y., Ermentrout, G.B. "Weakly Coupled Oscillators in a Slowly Varying World." Springer Journal of Computational Neuroscience 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 (2012): 350-91.

TEACHING

University of Pittsburgh

SPRING 2015 Calculus 3 (recitation)
FALL 2015 Calculus 1 and 2 (recitation)
SUMMER 2015 Introduction to Matrices and Linear Algebra (lecture)
SPRING 2015 Discrete Mathematical Structures (lecture)
FALL 2014 Calculus 1 (recitation)
SUMMER 2014 Differential Equations (lecture)
FALL 2013 Business Calculus (recitation)

Oberlin College

WINTER 2013 Computational Neuroscience course assistant for Keith Downing

HONORS AND AWARDS

2012 SPUR (Summer Program for Undergraduate Research)/P-SURG
2010–2012 Choose Ohio First Scholarship
2009–2012 Dean's High Honors

COMPUTER SKILLS

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