Sam Lewallen
Current as of 09/01/2016

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Education and Employment

Postdoctoral Research Associate, Princeton Neuroscience Institute

July 2014 - Present

Advisors: Bill Bialek and David Tank

Methods in Computational Neuroscience (summer course), MBL, Woods Hole, MA

August 2013

Ph.D., Mathematics, Princeton University

September 2008 - May 2014

Advisor: Zoltán Szabó

Thesis title: "Floergåsbord." (General subject matter: Low-Dimensional Topology)

B.A., Mathematics, Harvard University

September 2004 - June 2008

Graduated with Highest Honors

Publications

Lewallen, Sam[1], Kijung Yoon[1], David Tank, and Ila Fiete. "Grid Cell Responses in 1D Environments Assessed as Slices through a 2D Lattice." *Neuron* no. 89.5 (2016): 1086-1099

Levine, Adam Simon, and **Sam Lewallen**. "Strong L-spaces and left-orderability." *Mathematical Research Letters* 19, no. 6 (2012).

Burak, Yoram, **Sam Lewallen**, and Haim Sompolinsky. "Stimulus-dependent correlations in threshold-crossing spiking neurons." *Neural computation* 21, no. 8 (2009): 2269-2308.

Awards and Fellowships

NSF Graduate Research Fellowship, 2008-2011

Centennial Fellowship, 2008-2011 (awarded to top few incoming Phd students by Princeton math department)

NSF Nordic Fellowship, 2011

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[1]Joint first authors.

Invited Talks

MSRI, Berkeley, Spring 2009, Knot homologies program seminar

Indiana University, Bloomington, Fall 2010, Topology seminar

Michigan State Unversity, Fall 2010, Topology seminar

Caltech, Spring 2011, Topology seminar

Brandeis University, Fall 2012, Topology seminar

Tank lab meeting on proposed grid cell analysis project, Fall 2013

UC Davis, Spring 2013, computational neuroscience seminar

Harvard University, Spring 2013, Neurolunch seminar

UT Austin, Spring 2013, Fiete group meeting

Computer Competencies

MATLAB, Mathematica, C++, GIT