

Srinivas Gorur-Shandilya

Graduate student, Yale University
(updated January 2017)

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Education

Yale University, New Haven, USA. Ph.D. (expected March 2017).
Thesis advisor: Thierry Emonet

International Max Planck Research School, The University of Göttingen, Germany,
2008-2010. M.Sc. in Neuroscience.
St. Stephen's College, University of Delhi, India, 2005-2008. B.Sc. in the Physical
Sciences.

Research Experience

- Jan. 2011 - present Ph.D. research, Yale University. I work with Prof. Thierry Emonet, building linear models to understand sensory representation in *Drosophila* olfaction
- March. 2010 - August. 2010 Research Assistant, Max Planck Institute for Nonlinear Dynamics and Self-Organisation, Göttingen, Germany. Working with Dr. Marc Timme, I developed a method for reconstructing networks from observations of their dynamics.
- Sep. 2009-Mar. 2010 M.Sc. research, Max Planck Institute for Nonlinear Dynamics and Self-Organisation, Göttingen, Germany. I worked with Dr. Marc Timme to study the mapping from network topology to network dynamics in a model of a neuronal network in a lobster.

Professional Activities and Awards

ad-hoc reviewer, *New Journal of Physics* and *Scientific Reports*

- * Presenters' Travel Grant, Cosyne, USA (2016)
- * Conference Travel Fellowship, Graduate Student Assembly, Yale University, USA (2015)
- * Anne S. And William H. Macmillan Fellowship, Yale University, USA (2011-2013)
- * Research Fellowship, Max Planck Society, Germany (2009-2010)
- * Fellowship from the Excellence Foundation for the Promotion of the Max Planck Society, Max Planck Society, Germany (2008-2009)
- * KVPY Fellowship, The Indian Institute of Science, India (2005-2008)

Publications

D Raccuglia, LY McCurdy, M Demir, **S Gorur-Shandilya**, M Kunst, T Emonet, and M Nitabach. (2016) “Temporal contrast enhancement in the *Drosophila* olfactory system regulates behavioral responses to plume-like stimuli” *eNeuro*

T-W Koh, Z He, **S Gorur-Shandilya**, K Menuz, NK Larter, S Stewart and JR Carlson. (2014) “The *Drosophila* IR20a Clade of Ionotropic Receptors Are Candidate Taste and Pheromone Receptors” *Neuron*.

S Gorur-Shandilya and M Timme. (2011) “Inferring Network Topology from Complex Dynamics” *The New Journal of Physics*.

S Gorur-Shandilya (2009) “Relating topology and dynamics in neuronal networks” (*M.Sc. thesis*)

Public Talks

“Sequential gain control in *Drosophila* olfactory receptor neurons.” Accepted talk at Sense2Synapse, New York, USA. (2016)

“Topology Predicts Dynamics; Dynamics Constrain Topology.” Invited talk at SIAM Conference on Applications of Dynamical Systems (DS15), Snowbird, USA. (2015)

“Why is anything the way it is?” Short talk at the 30th Chaos Communication Congress (30C3), Hamburg, Germany. (2013)

Teaching

Teaching Fellow for Dynamical Systems in Biology (MCDB 361), taught by Profs. Thierry Emonet, Damon Clark and Jonathan Howard (2014)

Teaching Fellow for Neurobiology (MCDB 320a), taught by Profs. Haig Keshishian and Paul Forscher. (2010)

Projects

FlyVoyeur, a MATLAB toolbox to annotate and analyse videos of *Drosophila* courtship. Free software, available at <https://github.com/sg-s/fly-voyeur>

kontroller, a MATLAB toolbox for data acquisition and control of experiments. Free software, available at <https://github.com/sg-s/kontroller>

spikesort, a MATLAB toolbox for sorting spikes from extracellular recordings of *Drosophila* ORNs. Free software, available at <https://github.com/sg-s/spikesort>