

Sanjay Narasiwodeyar

Email: sanju92@gmail.com

Education: *University of Illinois, Urbana-Champaign, Urbana, IL*, BS in Specialized Physics - 2014
State University of New York at Brockport, Brockport, NY, BS in Psychology - 2016
Florida International University, Miami, FL, PhD in Cognitive Neuroscience - 2022

Research Interests:

In condensed matter physics, I was involved in creating a real time Fourier analysis of digital and analog signals arising from complex emergent states of matter in metal-superconductor micro-junctions. After receiving my BS in physics, I decided to explore computational approaches to cognition and behavior.

I have recently received an undergraduate degree in psychology and my research interests lie in exploring the neuro-computational bases of learning, memory, and attention. I'd like to examine fundamental neuro-cognitive processes in human and non-human animals by using both experimental and computational modeling research methods for understanding neural activity.

Research Experience:

Research Assistant- Computational modeling of temporal dynamics in associative learning (SUNY Brockport, 2015 – 2016)

Research Assistant- Experimental solid state physics; emergent behavior in heavy fermion superconductors (UIUC, Urbana, 2012-2014)

Research Assistant- Experimental Atomic Physics; non-linear optical rotation in Cs and Rb vapors (Indian Institute of Science, Bangalore, 2011)

Publications:

Witnauer, J. E., Rhodes, L., Kysor, S., Narasiwodeyar, S. (submitted). Sometimes competing retrieval predicts the selective role of within-compound associations in retrospective revaluation. *Behavioural Processes*

Narasiwodeyar, S., Dwyer, M., Liu, M., Park, W. K., & Greene, L. H. (2015). Two-step fabrication technique of gold tips for use in point-contact spectroscopy. *Review of Scientific Instruments*, 86(3), 033903.

Park, W. K., Narasiwodeyar, S. M., Bauer, E. D., Tobash, P. H., Baumbach, R. E., Ronning, F., ... & Greene, L. H. (2014). Hidden order and hybridization gap in URu₂Si₂ via quasiparticle scattering spectroscopy. *Philosophical Magazine*, 94(32-33), 3737-3746.

Conference Presentations:

Greene, L. H., Narasiwodeyar, S. M., Dwyer, M., Park, W. K., & Canfield, P. C. (2015, March). Hybridization and coherence in the intermediate valence compound YbAl₃ via quasiparticle scattering spectroscopy (QPS)*. In *APS Meeting Abstracts* (Vol. 1, p. 22013).

Narasiwodeyar, S., Dwyer, M., Greene, L., Park, W. K., Bauer, E., Tobash, P., ...& Canfield, P. (2014, March). Hybridization in Kondo lattice heavy fermions via quasiparticle scattering spectroscopy (QPS). In *APS Meeting Abstracts* (Vol. 1, p. 46009).

Greene, L. H., Narasiwodeyar, S. M., Banerjee, P., Park, W. K., Bauer, E. D., Tobash, P. H., ... & Thompson, J. D. (2013, March). Quasiparticle scattering spectroscopy (QPS) of Kondo lattice heavy fermions. In *APS Meeting Abstracts* (Vol. 1, p. 19008).

Awards:

Robert A Stein Award. Spring 2013. Physics Department, University of Illinois at Urbana-Champaign

Skills: MatLab, Mathematica, Python, LabView, EWB, MultiSim, AutoCad, C, Origin, Excel