

**Justin C. Sanchez, Ph.D.**  
**Short Bio**

Dr. Sanchez's research interests are in Neural Engineering and neural assistive technologies. Topics include the analysis of neural ensemble recordings, adaptive signal processing, Brain-Machine Interfaces, motor system electrophysiology, treatment of movement disabilities, and the neurophysiology of epilepsy. He is an Assistant Professor of Pediatrics, Neuroscience, and Biomedical Engineering at the University of Florida College of Medicine, Engineering, and McKnight Brain Institute in Gainesville, Florida. He received his Ph.D. (2004) and M.E. degrees in Biomedical Engineering and B.S. degree in Engineering Science (Highest Honors - 2000) with a minor in Biomechanics from the University of Florida. The goal of his research is to develop state-of-the-art novel medical treatments by operating at the interface between basic neural engineering research and clinical care. This direction of research is motivated by the potential of direct neural interfaces for delivering therapy and restoring functionality to disabled individuals using engineering principles. In 2005, he won two prestigious awards for his work including Excellence in Neuroengineering and more recently an American Epilepsy Society Young Investigator Award. In 2006 he founded the Gainesville Engineering in Medicine and Biology Chapter and serves as the chapter Chair. He is a reviewer for the NIH Neurotechnology Study Section and multiple journals of biomedical engineering. His neural engineering electrophysiology laboratory is currently developing direct neural interfaces for use in the research and clinical settings and has published over 40 peer review papers and holds 4 patents in neuroprosthetic design. He is the founding member of the Neuroprosthetics Research Group (NRG) at the University of Florida (<http://nrg.mbi.ufl.edu>).