

Biographical sketch

Erminia Fardone, Ph.D.
Neuroscientist, Research Manager

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By advanced training, I am a broadly trained neurobiologist. In 2013 I completed my doctorate in Neurobiology and Life Sciences at the Joseph Fourier University in Grenoble, France. For three years, I worked at the European Synchrotron Radiation Facility as a Ph. D. student. My research focused on investigating the effect of X-rays microbeam generated by a Synchrotron source towards cortex and hippocampus in rats to potentially modulate brain function and treat focal epilepsy in a minimally invasive way without carrying out surgery. I developed my expertise in histological, surgical, imaging, and microscopic techniques.

In 2014 I received an NIH (NIDCD) Institutional Training Grant for Postdoctoral Fellowship. As a Postdoctoral Associate, I started to study the olfactory system upon joining Dr. Debra Ann Fadool's laboratory at The Florida State University, Tallahassee, FL. I learned the electrophysiology and analysis of patch-clamp recordings of macroscopic cell-attached patches using the voltage-clamp configuration under my mentor's guidance. The purposes of my project were mainly two. One aimed to identified changes in mapping odor-activated neurons in adult and middle-aged *M72iresTaugfp* transgenic mice treated with graded levels of diet-induced obesity. A second study aimed to study olfactory bulb neurons' conduct in whole-animal physiology and olfactory discrimination delivering nanoparticle-tethered inhibitors of Kv1.3 through osmotic mini-pump.

In 2017 I became a staff member of the Anatomy & Histology Shared Resource Department at HHMI Janelia Research Campus in Ashburn, VA. I actively participated in development projects in a fast-paced environment. My extensive experience in the neurosciences provided a broad range of anatomy, histology, and microscopy services within optimization and scale-up research, estimating the duration of work activities delivering a high-quality product in a short time.

In 2018 I moved to Miami, FL, where I started working at the University of Miami Miller School of Medicine first as Assistant Scientist and then as Research Support Manager. I worked with Dr. Rishi Rattan managing a Florida Department of Transportation (FDOT)-founded Grant at the Ryder Trauma Center - Jackson Memorial Hospital. The research project focused on risk factors (individual and environmental) associated with pedestrian and bicyclist injuries in Miami-Dade County. In 2019 I obtained the Project Management certification issued by the University of Miami – Division of Continuing & International Education. Succeeding, I migrated into the Department of Public Health Sciences - Division of Health Services Research and Policy, where I currently work with Dr. Kathryn McCollister. I manage projects on the economic evaluation (cost-effectiveness and benefit-cost analyses) of substance use disorders, including criminal offenders and pregnant/parenting women, for the National Institute of Health's HEALing (Helping End Addiction Long-term) Communities study and Justice Community Opioid Innovation Network (JCOIN) researches.

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