Short Biography - Daniela P. Valdés

Dr. Daniela P. Valdés is a Postdoctoral Associate in the Rinaldi-Ramos Laboratory, Department of Chemical Engineering at the University of Florida (2025-today), where she focuses on magnetic nanoparticle (MNP) based imaging and therapeutic technologies. In particular, she generates workflows for magnetic particle imaging (MPI) segmentation and quantification of MNPs in vitro and in vivo. She obtained her PhD in Physics at the Magnetic Resonance Laboratory, Centro Atómico Bariloche, supported by a CONICET scholarship in 2024. Her doctoral thesis, supervised by Dr. Emilio De Biasi and Dr. Enio Lima Jr., is titled Magnetic Hyperthermia in Phantoms: From Theory to Experiment. Daniela has also served as a teaching assistant for the Experimental Physics I (2019-2022) and Quantum Mechanics II (2023-2024) courses at Instituto Balseiro. She holds an MSc in Physics (2018) and a BSc in Physics (2017) from Instituto Balseiro, where she investigated the MNP interaction effect in magnetic hyperthermia treatment performance.