



Sebastian Duno-Miranda

Postdoctoral Scholar, Biochemistry

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BIO

I started my training as a biologist at the Universidad Central de Venezuela (UCV) and the Instituto Venezolano de Investigaciones Científicas (IVIC). My Licentiate thesis degree advisor was Dr. Raúl Padrón, whom with I studied the structure and function of tarantula muscle, a key non-conventional animal model to understand muscle function in humans. Next, I would move to pursue doctoral studies at the University of Vermont, under Dr. David M. Warshaw supervision, studying the molecular mechanics of human cardiac myosin, the motor responsible for powering up the contractions of the human heart, the effect of multiple cardiomyopathy mutations, and the application of machine learning to enhance myosin single-molecule data analysis. Now, I've joined the lab of Dr. James Spudich at Stanford University, to continue pushing the frontiers of knowledge regarding the molecular physiology of human myosins in the context of heart disease. For more details please see <https://duno-miranda.org>

INSTITUTE AFFILIATIONS

- Member, Maternal & Child Health Research Institute (MCHRI)

STANFORD ADVISORS

- James Spudich, Postdoctoral Faculty Sponsor