



## Marc Carmichael, PhD

Affiliate, UIT Service Center Operations

---

### Bio

#### BIO

Marc Carmichael, PhD earned a BS with honors in Chemical Engineering and PhD in Biomedical Engineering from Rutgers University and is currently completing MD training at Stanford University School of Medicine. Before pursuing an MD, Dr. Carmichael worked as both a Chemical and Process Engineer in the R&D divisions at Centocor and Merck & Co. with a focus on process development, tech transfer, and new technology development in the production of biopharmaceuticals from mammalian cells. Throughout his training, Marc has been dedicated to understanding and addressing unmet needs and understudied areas in neuroscience and population health. As a neuroscientist, his research has been focused on two streams: 1) exploring the restorative capacity of the CNS by characterizing the endogenous stem/progenitor cell response in the brain following spinal cord injury and 2) understanding the combinatorial effects of astrocyte priming and later cytokine exposure on cortical synchrony, bursting, and maturation during the perinatal period. As an advisor in the health tech industry, he worked on innovative ways to employ health data and machine learning to identify new opportunities to combat health disparities in childhood asthma, uncover the populations of children most vulnerable to the adverse consequences of climate change, and leverage novel AI approaches in the early detection of patients with rare disease. Marc's work has been featured in Forbes, the LA Times, and the Wall Street Journal. Outside of his academic and industry pursuits, Marc enjoys playing pickup basketball, sailing, and various teaching, mentoring, and service activities for under-resourced communities.