Traumatic brain injury is a relatively common occurrence during childhood, and yet relatively little is known about how brain development is altered by pediatric TBI. My lab’s research program is focused on how immune cells impact sex differences in brain development and behavior over the lifespan, with an interest in early life insult modeling in rodents. New research in our laboratory is focused on understanding how basal sex differences in the neuroimmune environment of developing animals leads to sex-specific impacts of pediatric TBI. My talk will cover what is known about sex differences in the neuroimmune environment of the developing brain, how this may impact the brain’s response to early life injury, and the necessity and logistics of considering sex as a biological variable in preclinical and clinical TBI research.