

More Details

After having an introduction to research with Dr. Rico-Guevara, I was fortunate to be able to engage with research and its interpretation in my coursework. In consecutive quarters, I took both BIOL 359: Foundations in Quantitative Biology and BIOL 428: Sensory Neurophysiology and Ecology Lab. The first of these courses focused upon the development of skills in interpretation of data and in particular how that data is presented in research. In contrast, the second course called upon me to actually consider how to conduct research and collect data. The first picture is from my research into neural responses under various temperature conditions while the paper below this is a paper I wrote in BIOL 359 wherein I focused almost entirely upon the nuanced interpretation of more limited data. Integrating these two courses, I was able to derive personal takeaways from a purely methodological approach vs a purely statistical, theoretical approach. Going forward, I feel comfortable constructing methodologies with limitations and existing literature in mind while also preemptively anticipating the statistical design of the paper thereafter. In my future as an orthopedic specialist, I look forward to reviewing the literature to keep up to date on current treatment options with confidence that I can critique this literature from both a statistical and methodological perspective.