

More Details: Branching from my intention to work in the field of orthopaedics, I engaged with Dr. Rico Guevara's MorphoTeam that focuses on the evolutionary morphology of the hummingbird. In particular, we focused our team's efforts on investigation of the bill and tongue to study the nectar uptake method utilized by a variety of hummingbird species. To do so, we rendered CT scans (pictured to the right) from a lab in South America to find the measurements of these structures. The information derived from these measurements was to be later used for studying fluid dynamics in other animal systems as well as industrial processes. Ultimately, I left Dr Rico-Guevara's lab as I had trouble engaging with solely virtual research. However, I gained an understanding of how to apply general principles such as pressure, fluid dynamics, flux, and mass balance to a specific case as well as transferring knowledge between disciplines. The lab opened up my eyes to the fact that research into any subject or field may have implications for the principles behind other areas of inquiry.