

Joseph Gyorda '22

Summer 2021

This summer, I worked as a virtual Data Science Insights Intern for HALE Sports, a company dedicated to optimizing the health and performance of athletes through analyzing somatic and biometric data. As an intern, I was involved with two teams. The first team was building a computer vision model in which athletes could receive real-time feedback on various exercises (e.g., squat, pushup) to correct their form. Machine learning and body pose estimation models were implemented to analyze body position/angles and identify correct/incorrect form. The second team was working with longitudinal somatic survey data collected from college athletes over a two month period. Our goal was to implement clustering algorithms to track athlete variables over time, identifying change points in trajectories and leveraging predictive models to determine which variables (e.g., energy, mood) are impacted by changes in another (e.g., sleep). These models could then be used for future athletes to help deliver meaningful performance insights on a daily basis.

The Byrne funding was used to help cover my housing this summer as I completed the internship. I am very grateful for the generosity of the Byrne Fund for supporting me and my work!