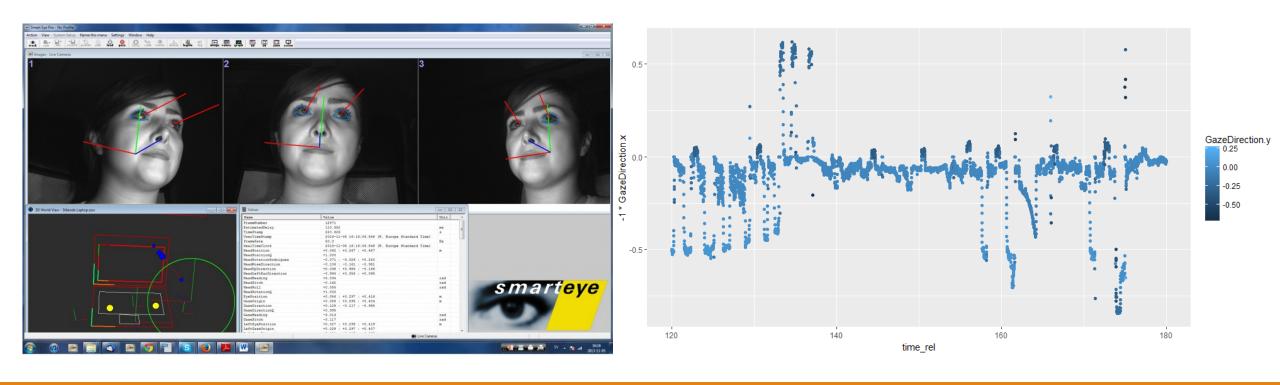
Eye Tracking Data Clustering

TONY LIN

Problem Setup

- •Obtained eye tracking data such as time, gaze directions, head rotations, and more
- •See what can be gained by looking at raw eye tracking data from a driving simulation



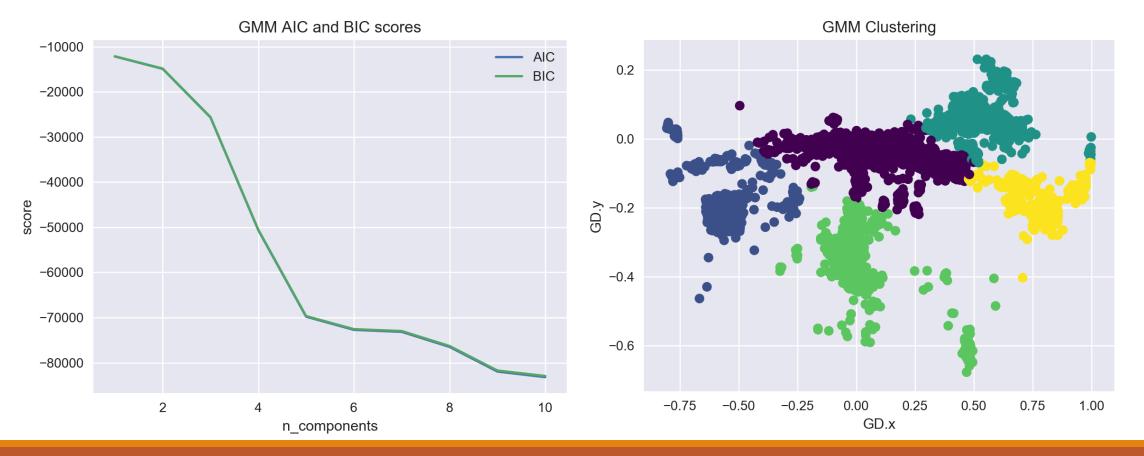
Methodology

Look at saccades, fixations, and AOIs

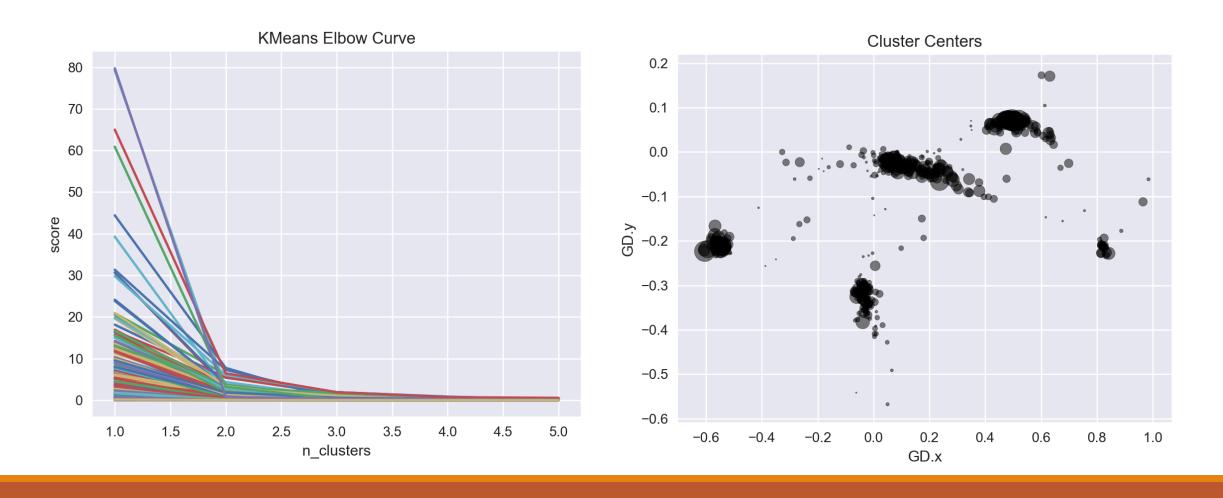


Direct GMM

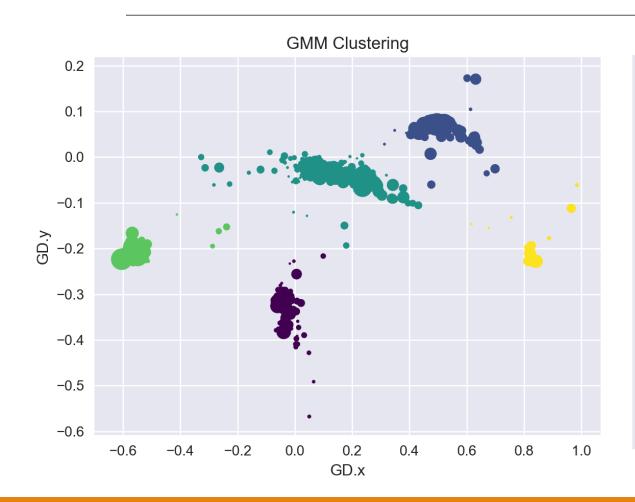
•AOIs are typically predefined; we look at two data-based unsupervised approaches

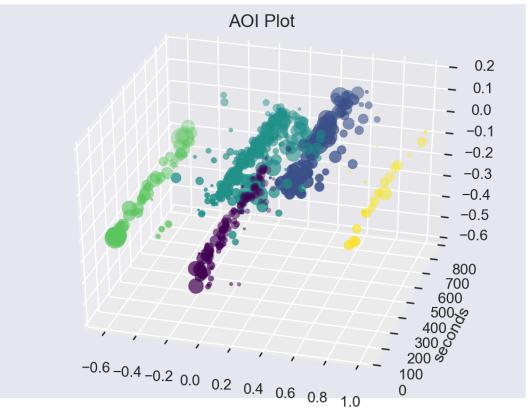


KMeans + GMM

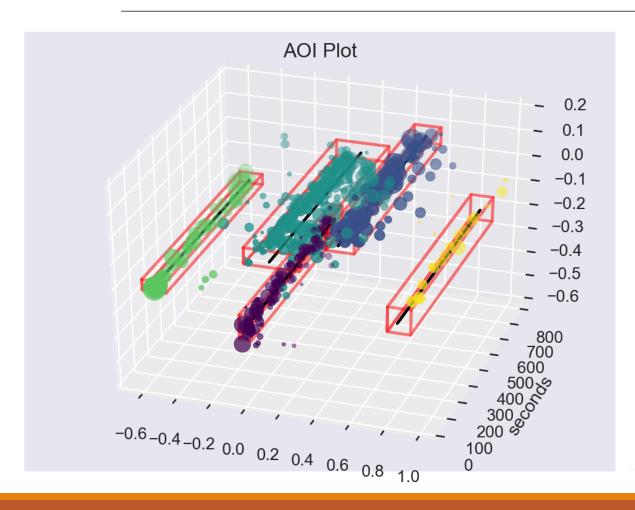


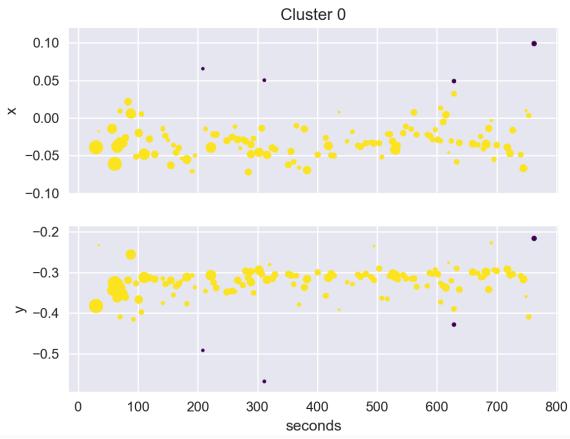
KMeans + GMM



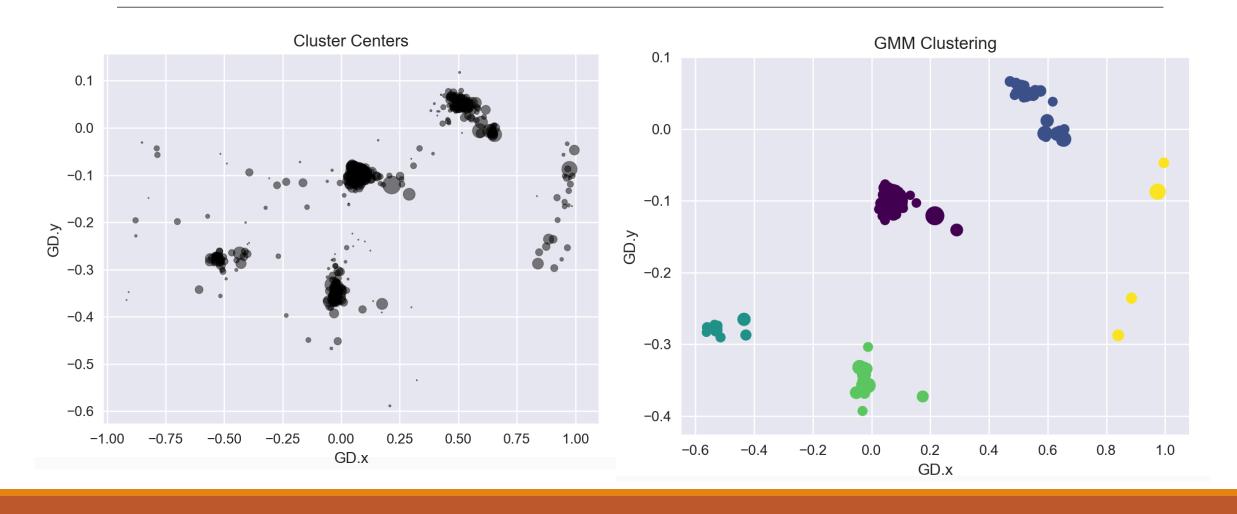


AOI Detection

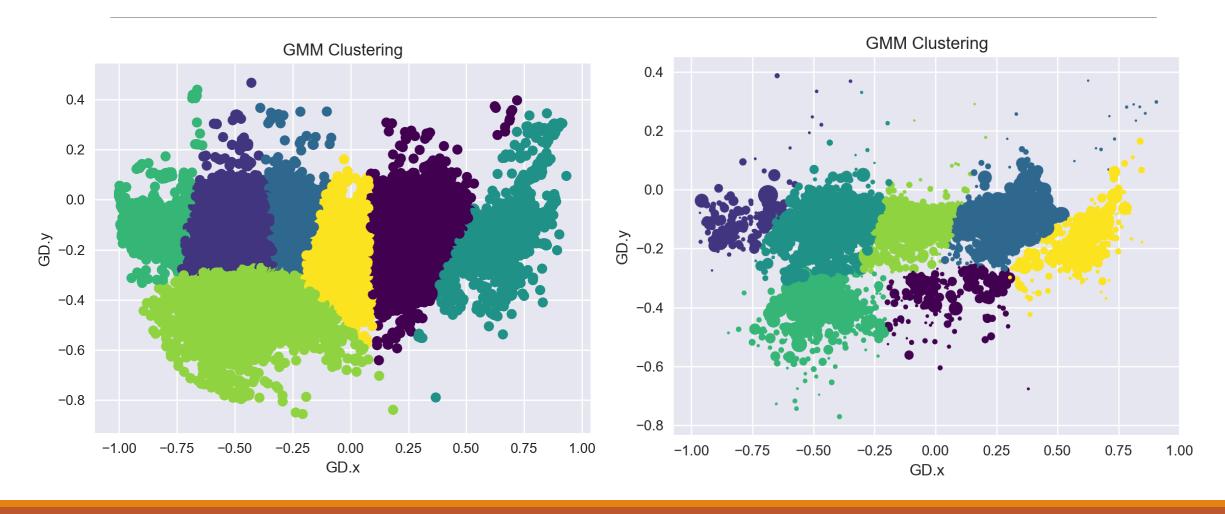




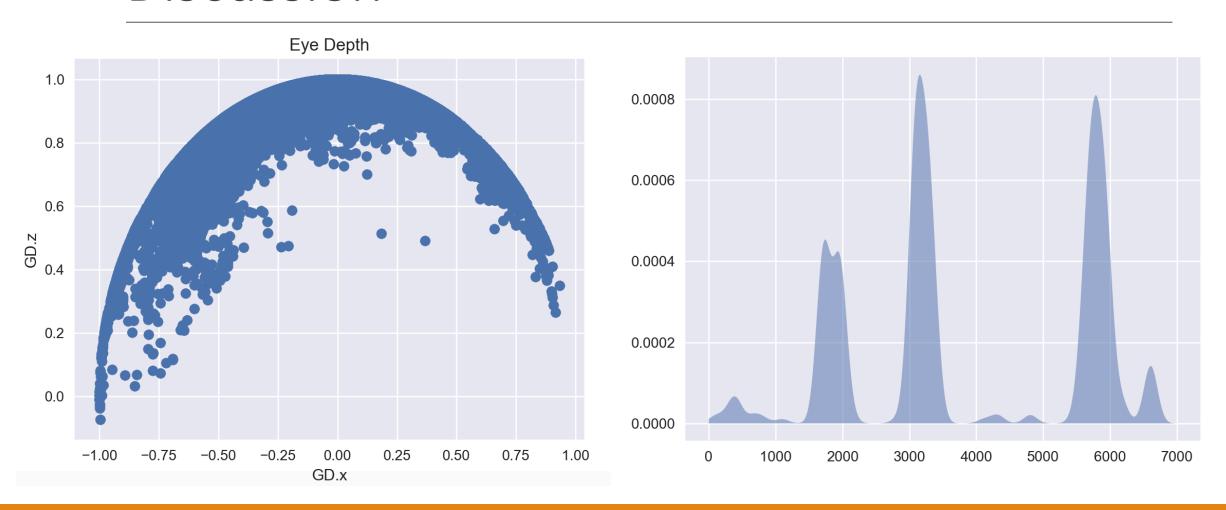
Discussion



Discussion



Discussion



Thank you!