1086-VI-1269 **Brianna C Heggeseth*** (bhirst@stat.berkeley.edu). *Comparison of clustering methods for longitudinal data.*

We consider the problem of clustering longitudinal data to discover discrete groups of individuals with similarly shaped trajectories over time. Researchers naturally interpret clustering results by describing the rate of change and curvature of the representative curves; however, currently available methods are not designed to cluster individuals explicitly by shape. We propose methods to address this issue and compare them to standard clustering methods in simulation and in data applications. (Received September 20, 2012)