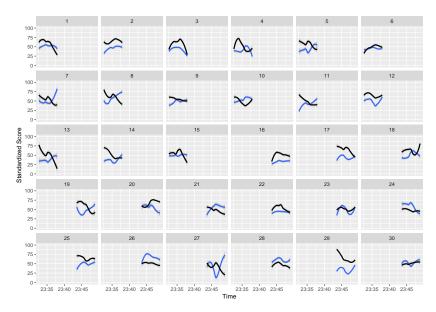
## A Longitudinal Analysis of the Synchronized Brainwave Dataset

Thomas Edwards and Jonathan Skaza

## Background

- ▶ Bullet 1
- ▶ Bullet 2

## Smoothed Trajectories by Subject



## Model

$$\left(\begin{array}{c} \mathbf{Y_{1i}} \\ \mathbf{Y_{2i}} \end{array}\right) = \mathbf{X_i}^T \left(\begin{array}{c} \beta_{1i} \\ \beta_{2i} \end{array}\right) + \mathbf{Z_i}^T \left(\begin{array}{c} \mathbf{b_{1i}} \\ \mathbf{b_{2i}} \end{array}\right) + \left(\begin{array}{c} \epsilon_{1i} \\ \epsilon_{2i} \end{array}\right)$$

- Fixed Effects: Intercept, Session, Gender, Color, Time, Hidden Icons, Previous Exposure to Ad
- Random Effects: Intercept, Time