

 $\begin{array}{lll} \textbf{Plate Diagram Legend} & Y - \text{Likelihood} \\ \theta - \text{Trace Link Prior} & \theta_{ir} - \text{Stage 1 Hyperprior} \\ \mu - \text{Mean of Trace Link Prior} & \mu_{trans} - \text{Stage 2 Hyperprior} \\ v - \text{Variance of Trace Link Prior} & \theta_d - \text{Stage 3 Hyperprior} \end{array}$