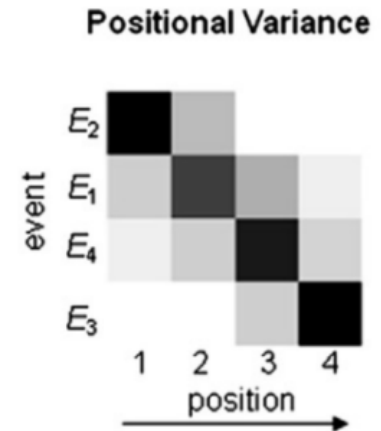


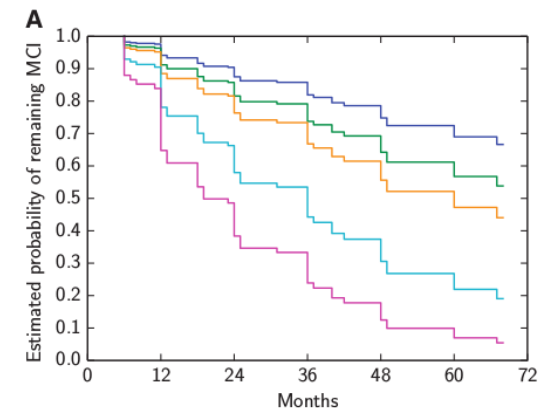
Differential diagnosis of Posterior Cortical Atrophy (PCA) vs other AD subtypes using disease progression modelling

Razvan Valentin Marinescu

- Dataset of ~300 subjects from DRC including controls, AD and PCA
- Aim: build an **Event-Based Model** that would find out the:
 - a. order in which biomarkers become abnormal
 - b. positional variance of abnormality
 - c. probability of MCI->PCA conversion over time
 - d. disease stage classifier
- Use the EBM to perform **differential diagnosis** of PCA vs other AD subtypes
- **Simultaneous** MCMC sampling of model parameters and event progression



source: Fonteijn et al, 2012



source: Young et al, 2014