**Longitudinal Computational Modeling**

1. Introduction to longitudinal modeling
   1. Characteristics of longitudinal data
   2. Benefits of longitudinal modeling
   3. Common questions longitudinal modeling is used to answer
   4. A brief overview of longitudinal modeling methods
      1. Paired *t*-tests
      2. RM ANOVAs
      3. Multilevel modeling
      4. Latent growth curve modeling
   5. Limitations of these methods
      1. Rely on general linear model
         1. Good place to put in McElreath quote about GLM – something like “definitely wrong but hard to beat”
2. Introduction to Computational Modeling
   1. Survey of different kinds of computational models
      1. Delay discounting models
      2. Reaction time models (e.g., drift diffusion?)
      3. Reinforcement learning models
   2. Why these models are helpful
   3. Current limitations
      1. Frequently fit using two-stage approaches
3. Current paper
   1. Illustrate how to build and fit a longitudinal computational model