

OVERVIEW OF SMLP2020 - STREAM 4

BEFORE TODAY: Julia 1.5.1 RStudio .Rmd DrWatson Repo!
 VS Code ↓ .R ↓

MACROS

- ① Workflow (Installation, VS Code, jmd, Jupyter NB)
 - ② Julia programming language (Julia PL) .jl
 (not "everything", but what's necessary for Mixed Models)
 - ③ Presentations
 - ④ Scripts and data
- < Order is not final; we may not cover everything
- + Overview 1 (DB)
 - Σ sleepstudy - longitudinal
 Ps's scripts + data
 - + Overview 2 (RK)
 - { dgestuff - simple LMM (part 1)
 Ps's scripts + data
 - + Mixed Models ↔ me4
 bridge [jellyMe4] (PA)
 - + Bootstrapping + profiling (DB)
 - dgestuff - simple LMM (part 2)
 paste - longitudinal
 - + GLMM (current limits in Mixed Models) (PA)
 - + Contrasts (RK)
 - { 2 to be done, mrk17 - contrasts
 Ps's scripts + data
 - + Model selection (RK)
 - { mrk17 - model selection
 Ps's scripts + data
 - + Principal Component Analysis (PCA) (PA)
 - { mrk17 - pca
 Ps's scripts + data
 - + post-hoc LMM parameterization (RK)
 - {
 - ↳ ... of Mixed Model estimates

• lower σ^2 parameters via simulation (DB + PA)

+ Transformations, covariates, interactions between factors and covariates (RK, PA)

MONDAY SCHEDULE

9:00 - 10:20 } Workflow (Reinhold)
10:40 - 12:00 }

< Practice

Phillip is around >

14:00 - 15:10 Workflow (Reinhold) or Julia PL (Phillip)

15:30 - 17:00 Overview of Mixed Models (Doug)

TUESDAY SCHEDULE: DEPENDS ON MONDAY

but: Macro1 + Macro2 + Macro3 + Macro4