11/30/2022

Why use MplusAutomation?

Adam Garber

What is MplusAutomation?

- MplusAutomation is an R package developed by Hallquist & Wiley (2018)

- It "wraps around" the Mplus program (Muthén & Muthén, 2017)

- Car metaphor: R/Rstudio is the *steering wheel or dashboard* & Mplus is the *engine*

UC **SANTA BARBARA**

Why go to all the trouble?

- Organized work procedures are critical for working

  effectively as a team and efficiently over long-term projects.

- Using guidance & tutorial examples learning MplusAutomation

  can be achieved in in the timeframe of an academic quarter.

- Ultimately, the effort committed initially to learning this powerful

  analysis tool will save your *future-self* time in the long run.

UC **SANTA BARBARA**

The bottom-line:
4 reasons to use MplusAutomation?

✓ Efficiency: It saves you time in the long run!

✓ Organization: All analyses, data, syntax, tables, & figures are systematically filed!

✓ Transparency: All research decisions exist on a single script, which includes input, output, result summaries, and annotation!

✓ Reproducibility: A highly systematized routine has been developed which is designed to maximize reproducibility!

UC SANTA BARBARA

Citing R, Mplus, & MplusAutomation

Hallquist, M. N., & Wiley, J. F. (2018). MplusAutomation: An R Package for Facilitating Large-Scale Latent Variable Analyses in Mplus. Structural equation modeling: a multidisciplinary journal, 25(4), 621-638.

Muthen, L.K. & Muthen, B.O. (1998-2017). Mplus User's Guide. Eighth Edition. Los Angeles, CA: Muthen & Muthen

R Core Team (2017). R: A language and environment for statistical computing. R Foundation for Statistical Computing, Vienna, Austria. URL http://www.R-project.org/

UC SANTA BARBARA

Visit:
https://immerse.education.ucsb.edu/

Follow:
@IMMERSE_UCSB