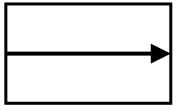
Do Changes in Traits Imply Changes in Behavior: A Longitudinal ESM Study

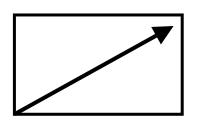
Emorie D Beck & Joshua J Jackson

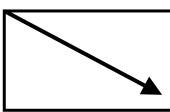
Washington University in St. Louis









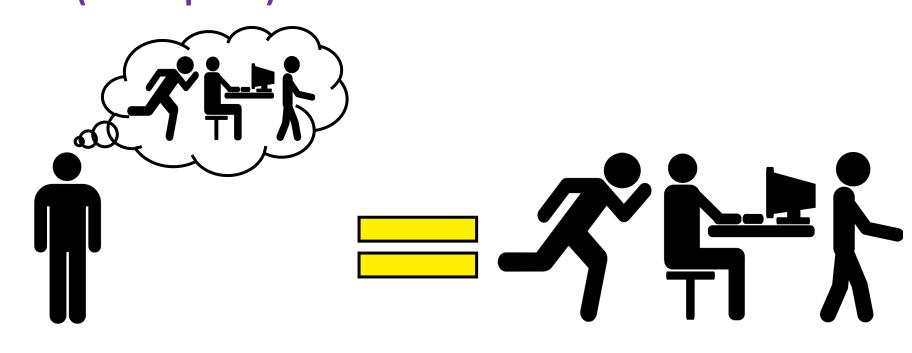






Mean-Level Personality

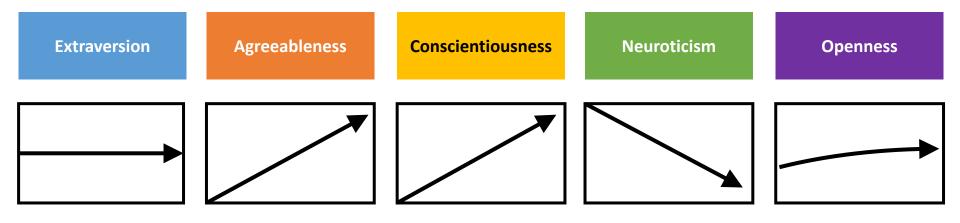
Trait State (self-reports)

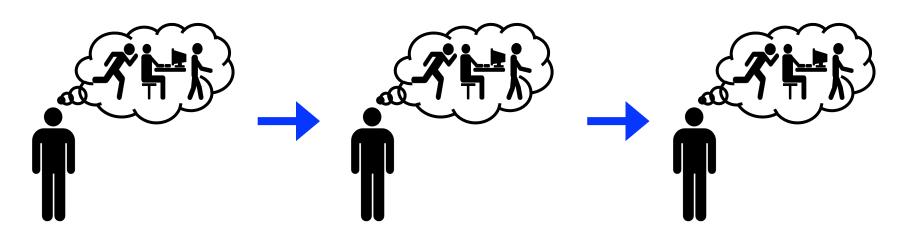


Self-Knowledge

Behaviors

Longitudinal Personality Change





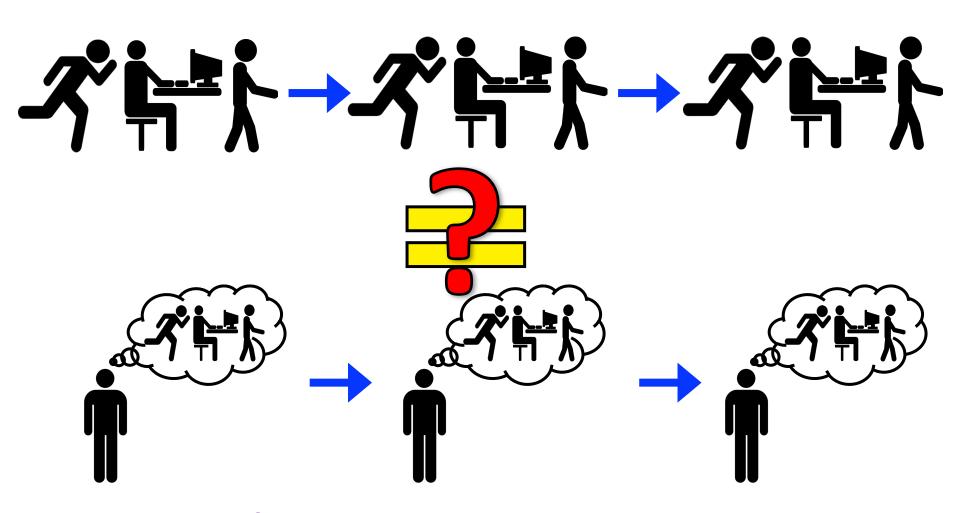
Trait

Self-Knowledge

Longitudinal Personality Change

State

Behaviors



Trait

Self-Knowledge

Longitudinal Personality Change

- 1. Is there stability in state measures across time?
- 2. Are there individual differences in change of state measures?
- 3. Are state and trait change associated with one another?

Methods

3 waves of ESM responses and 7 waves of survey responses from the Personality and Interpersonal Roles Study (PAIRS)

N = 434 Wash U undergrads,

Total ESM assessments N = 18,463 (median = 31 responses)

Total survey assessments N = 1301 (median = 3 responses)

Measures

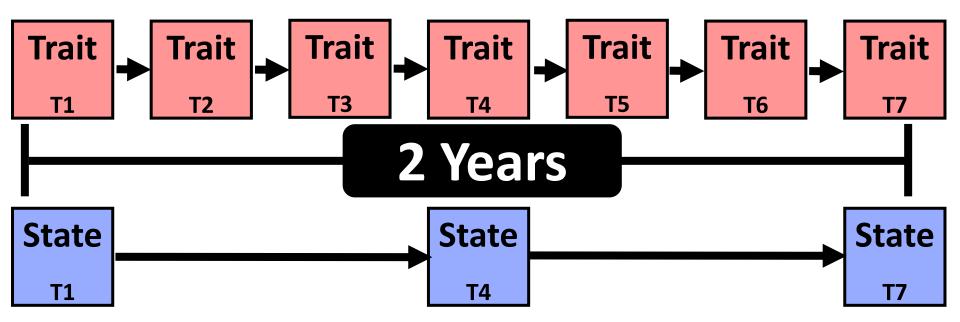
9 items from the Big Five Inventory (BFI)

Procedure

State: 4 assessments / day for 15 days at 3 time points, 1 year apart

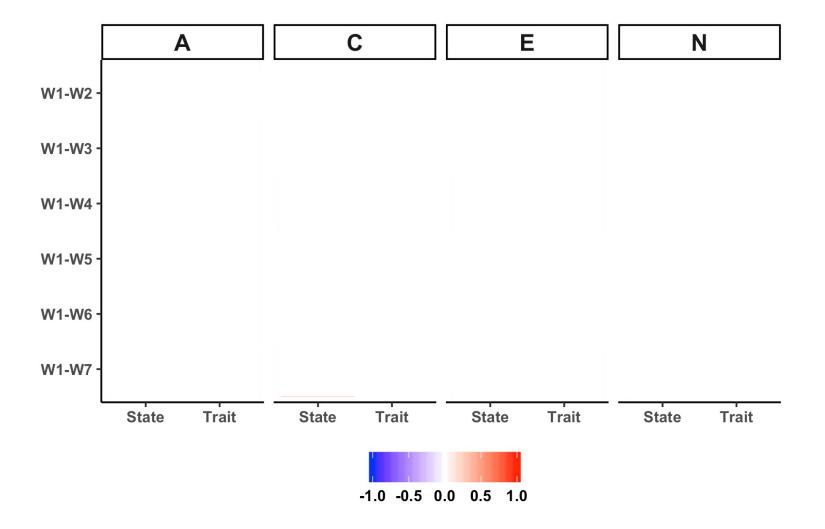
Trait: 1 assessment at 7 time points, 3 months apart

Total Assessment Period: 2 years



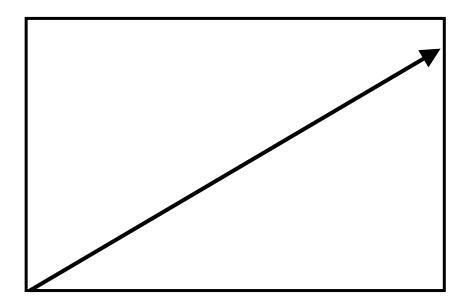
Results

Test-Retest Consistency



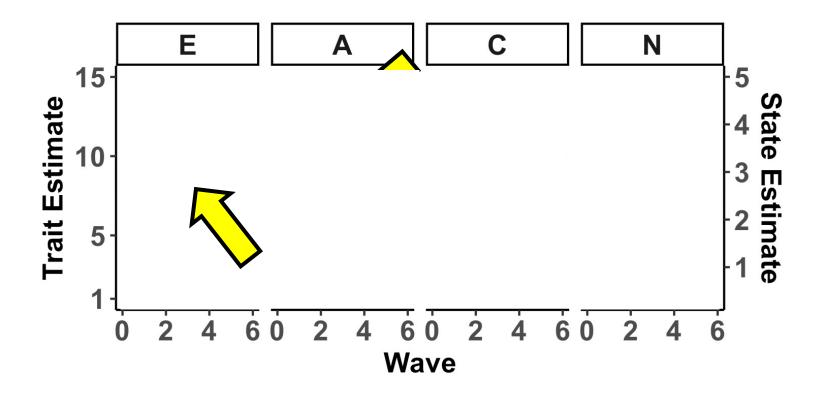
Mean Level Change

Test-Retest



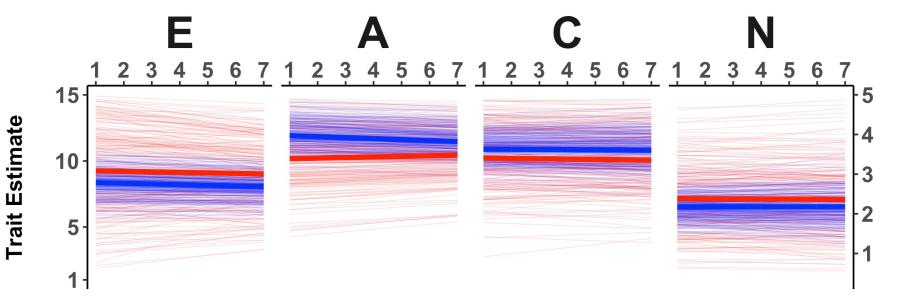
Mean Level Change

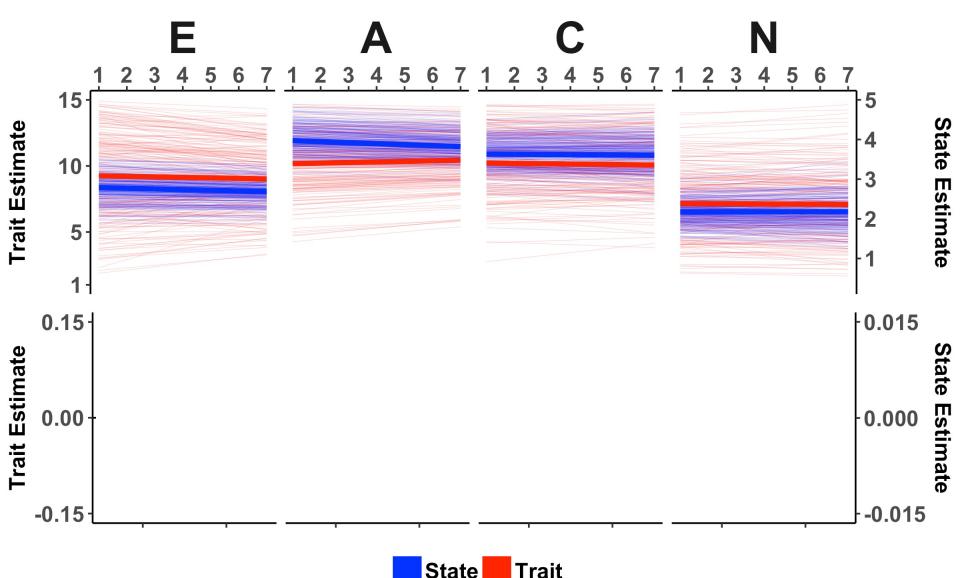
Mean-Level Change



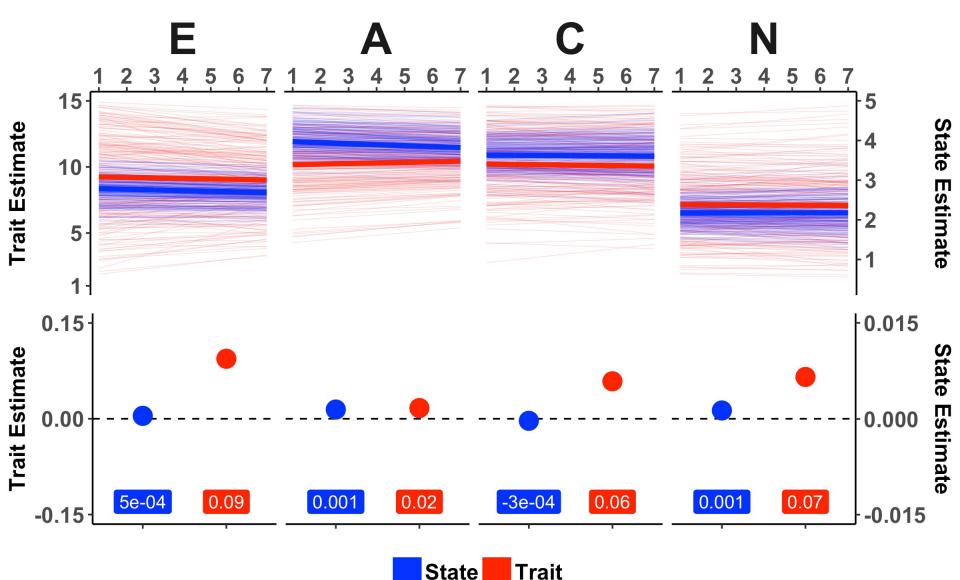
Perspective — State — Trait

Slope Variances





Slope Variances



Conclusions

States can be used to measure personality change.

Mean-level change: not a lot in this sample

Variances: More variability in trait slopes → people think they are more mutable than they are

Correlate Change: Moderate slope-slope correlations
→ change isn't just in your head

Questions?

Special Thanks to:

Josh Jackson
The PMaD Lab

(And the people who brought us PAIRS data)







Results:

https://emoriebeck.github.i o/Trait-State-Correlated-Change

Data and Code:

https://github.com/emorie beck/Trait-State-Correlated-Change