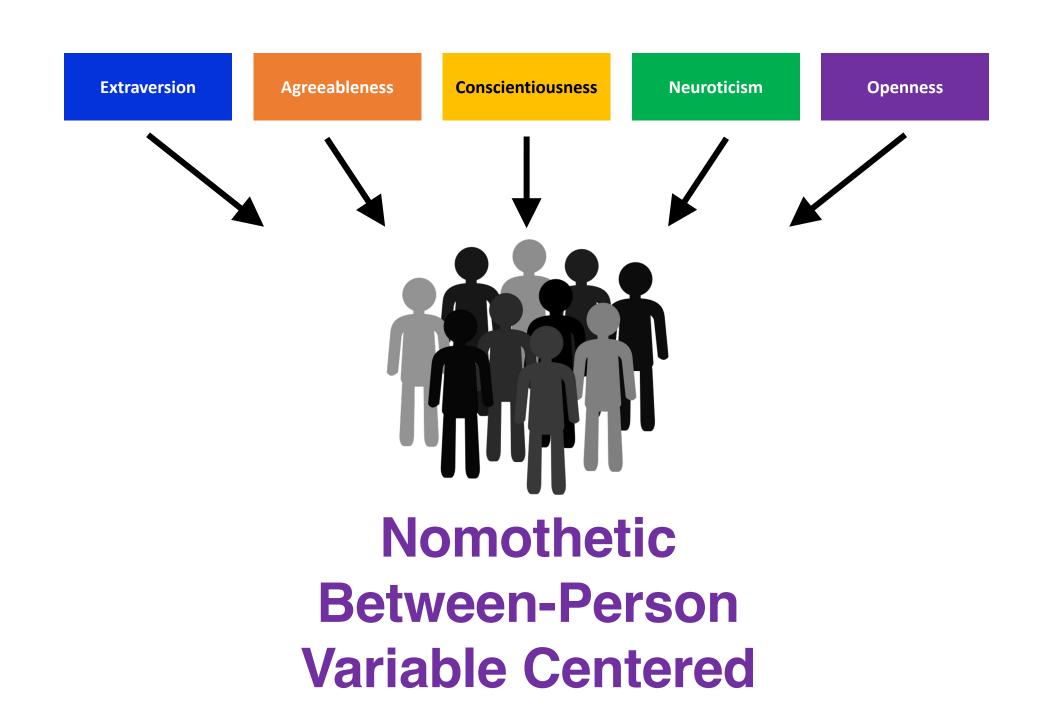
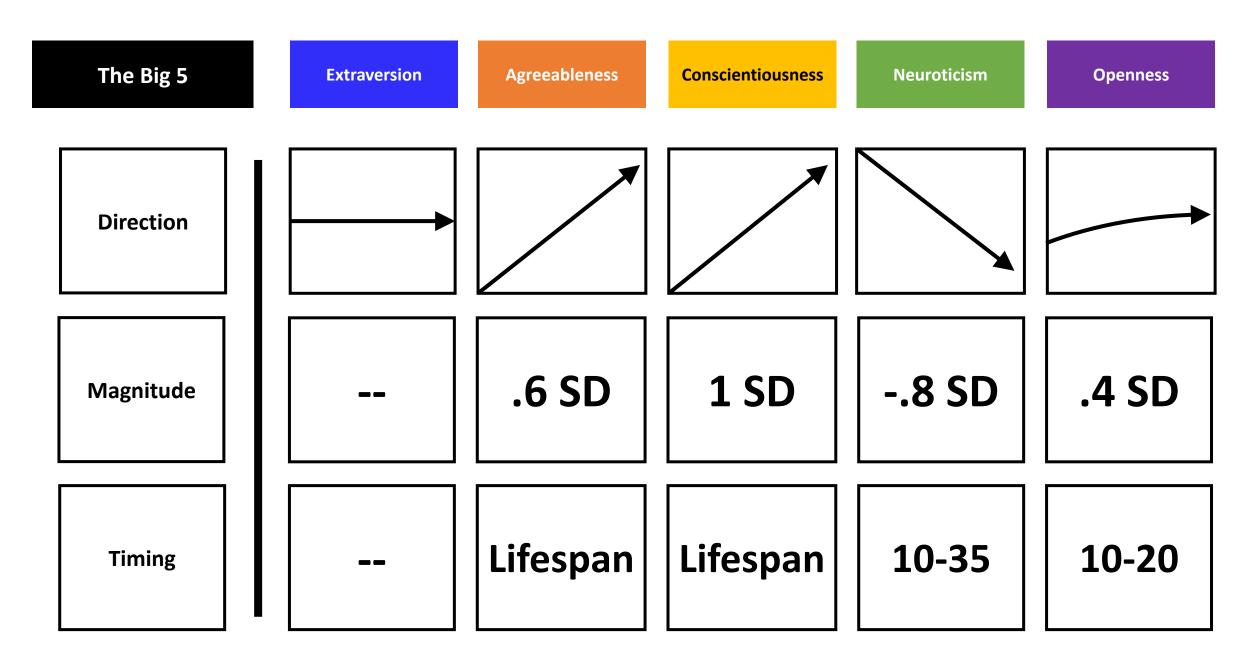
What does it mean for a person to change? Lessons from modern idiographic personality approaches

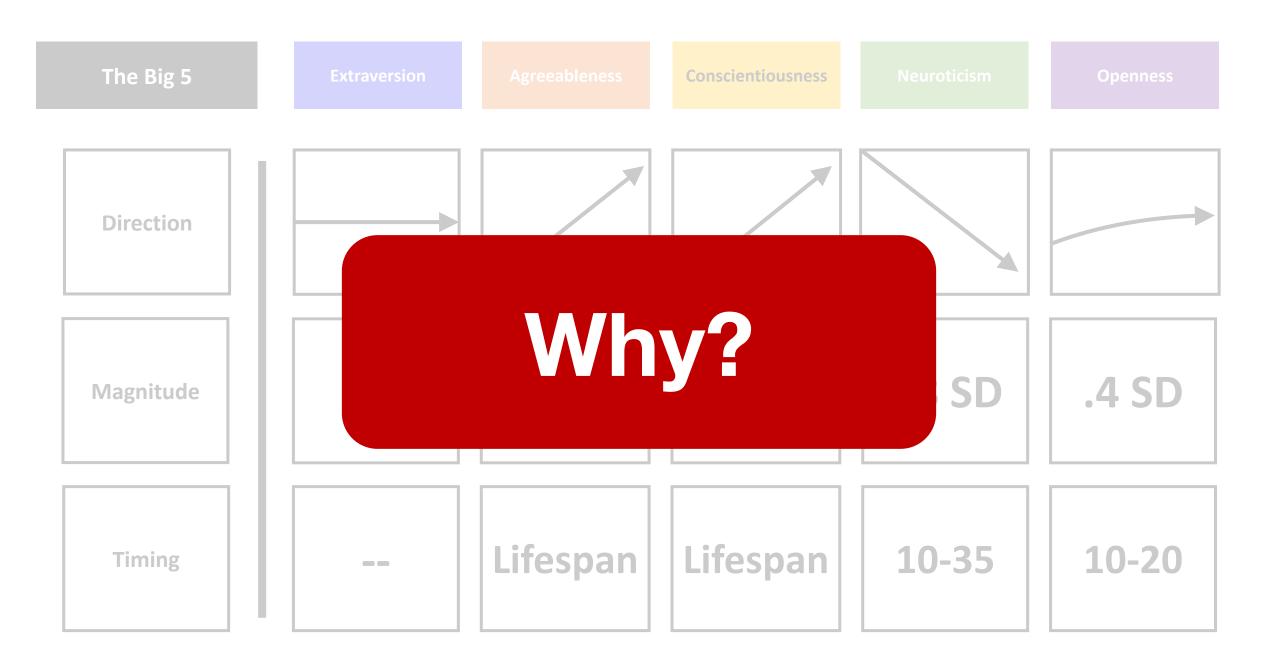
Emorie D. Beck, Ph.D University of California, Davis









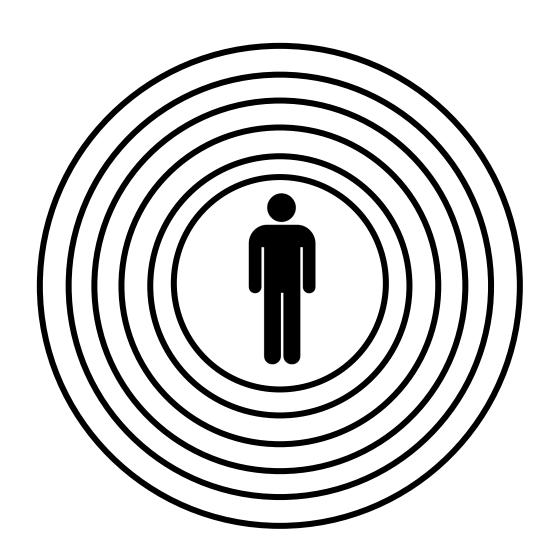


Roberts, Walton, & Viechtbauer, 2006

Persons in Context









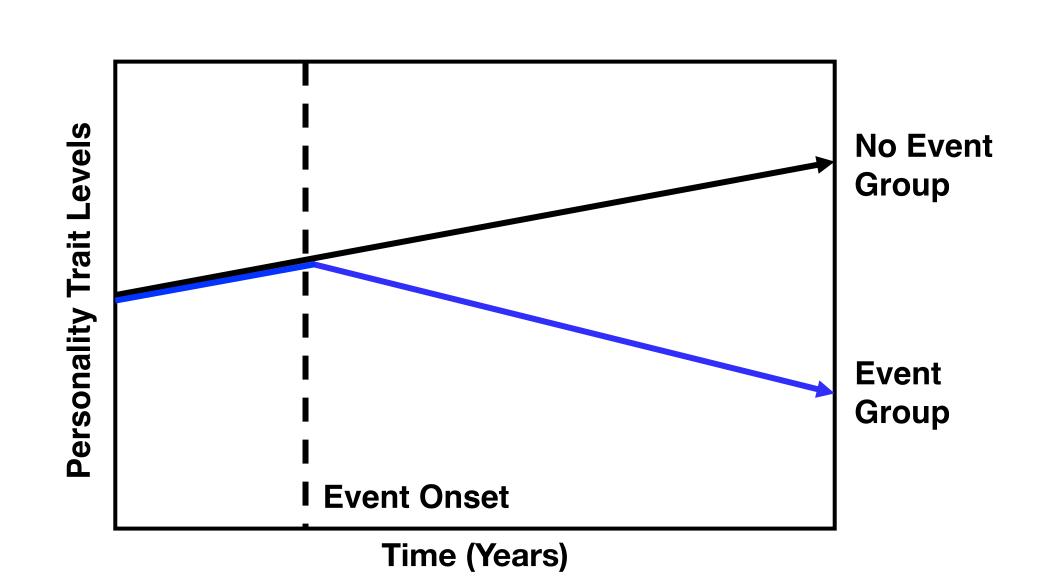


Persons in Context

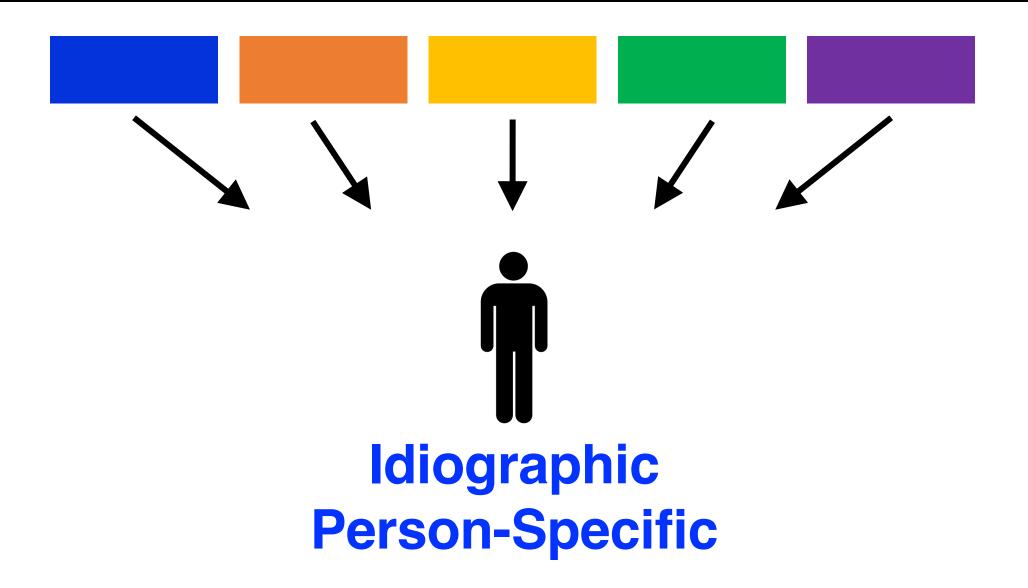
There is limited and inconsistent evidence that life events result in normative patterns of personality trait change.

This may be because of an overemphasis of traits and normative, population-level trends

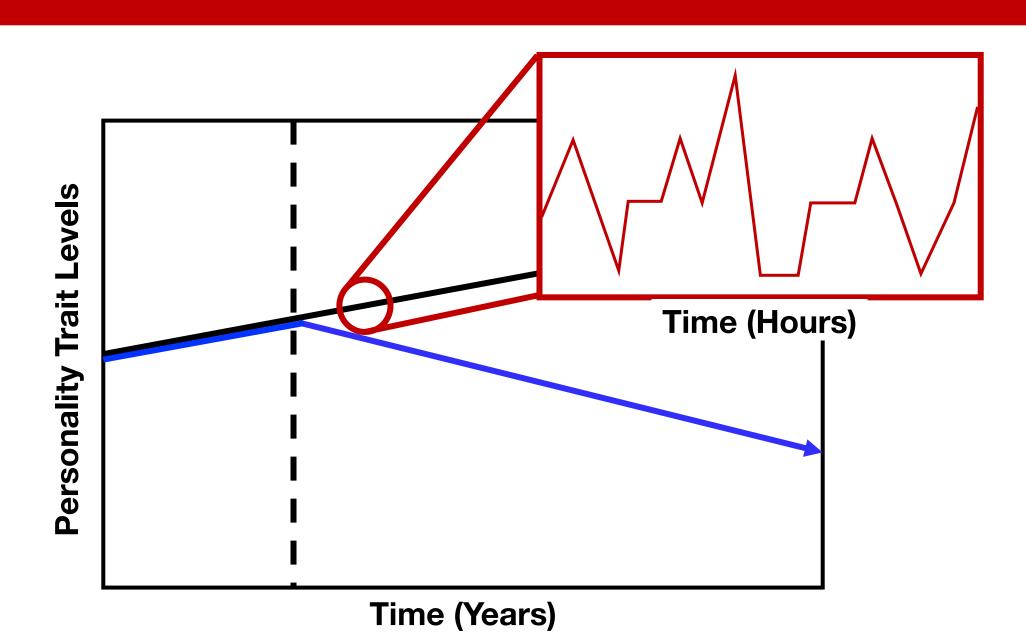
Persons in Context



The "Second Science" of Personality



Systems Perspectives: Persons in Context

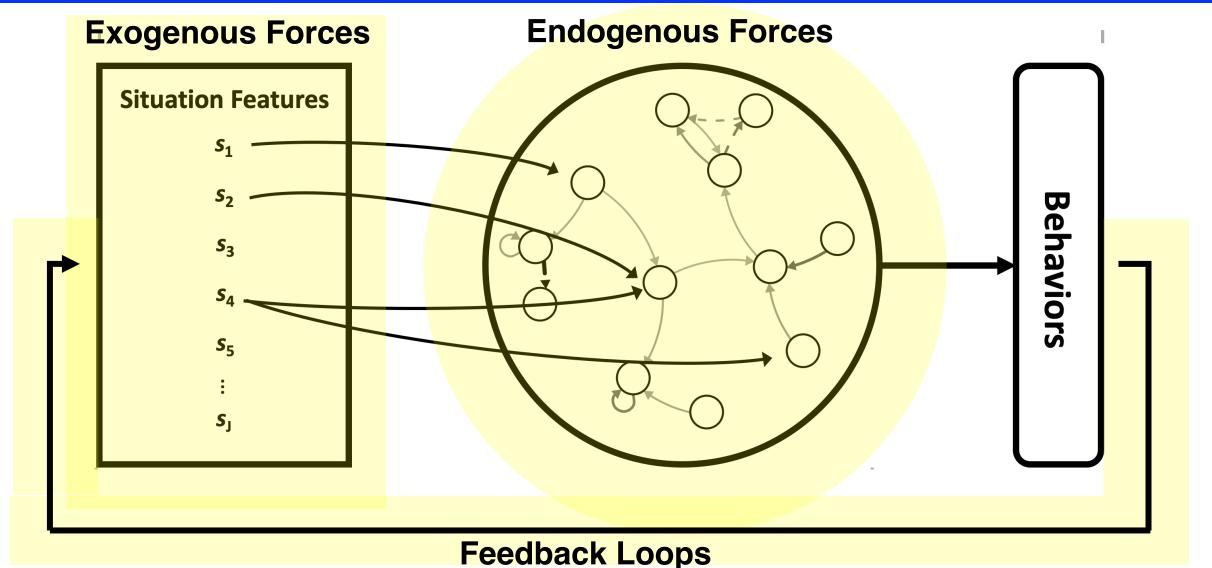


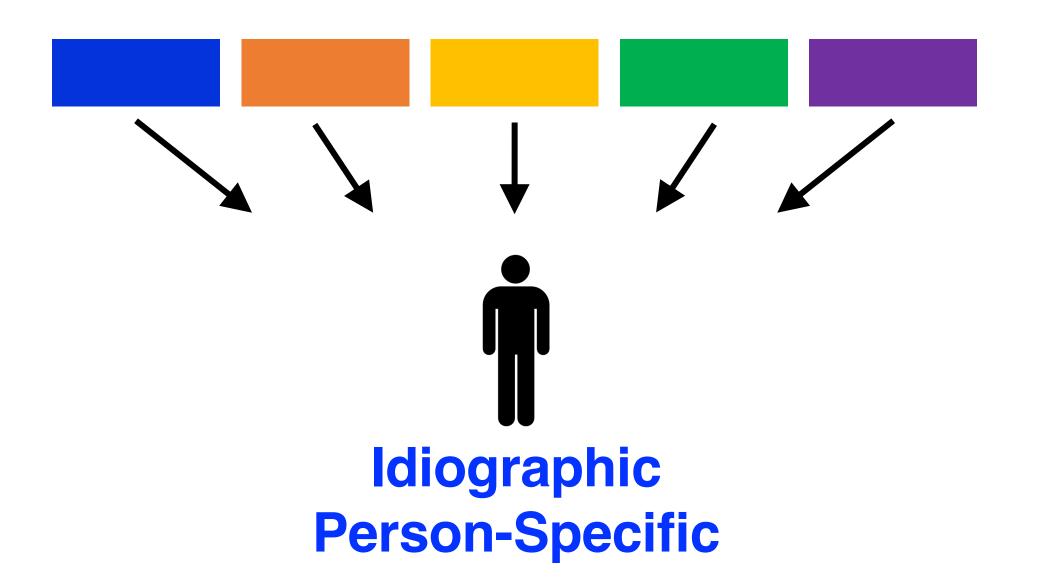
Systems Perspectives: Persons in Context

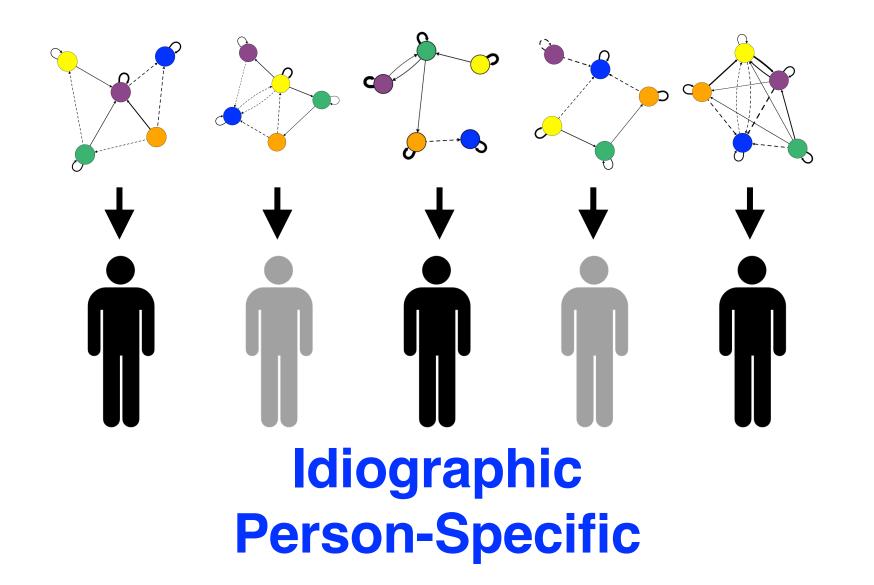
Adopting a systems perspectives requires a more nuanced perspective in how changes are unfolding within and across units, time, and people.

Time (Years)

Personality as a Cognitive Affective Personality System (CAPS)





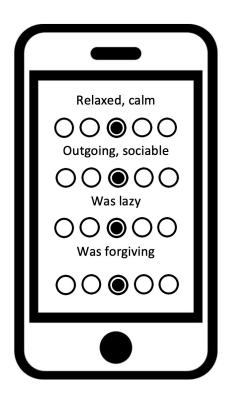


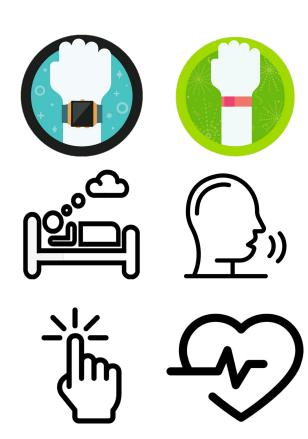
Understanding a person as a dynamic system provides a new opportunity to understand both a person and how they change over time.

Person-Specific

ESM / EMA

Mobile Sensing





Research Questions

1

Capturing systems and testing their longitudinal consistency

2

Associations between person-specific systems and longitudinal trait change

Methods

2 years of ESM responses from the Personality and Interpersonal Roles Study (PAIRS)

N = 372 Wash U undergrads, total assessments N = 17,715

Measures

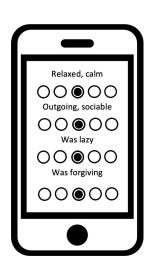
9 items from the Big Five Inventory (BFI)

Procedure

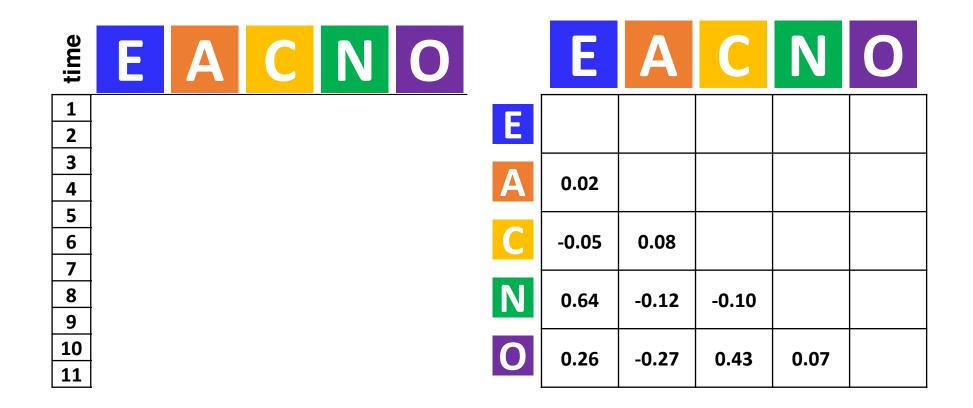
4 assessments / day for 15 days

Modeling

Graphical vector autoregression



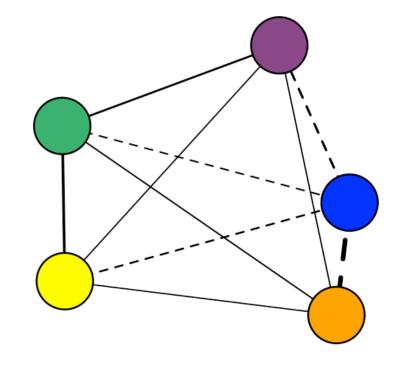




Contemporaneous: Within Time-Points $X_{it} \leftarrow \rightarrow X_{it}$

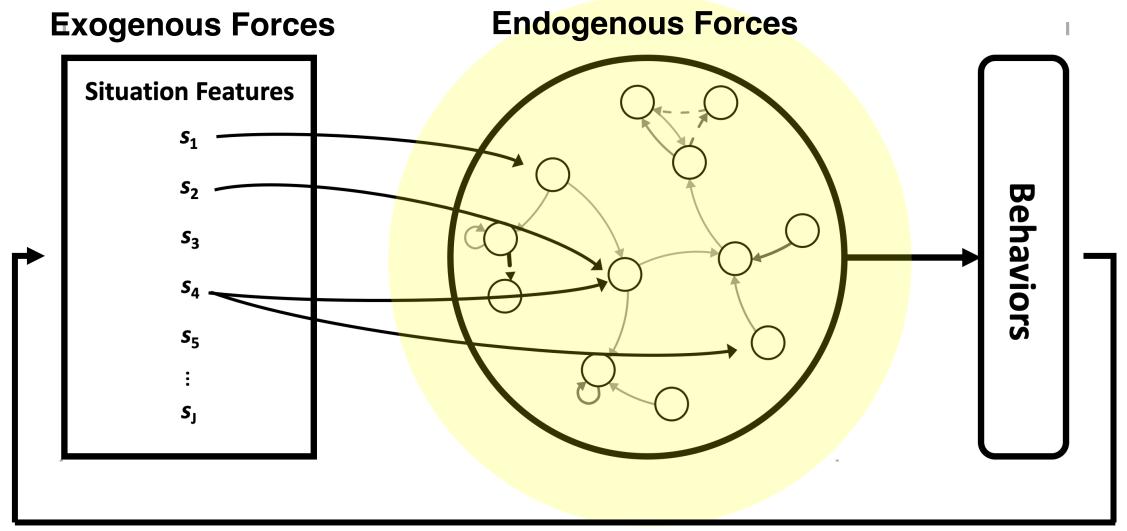


time	Ε	A	C	N	0
1	4	2	3	2	4
2	2	3	4	1	4
3	3	3	2	2	4
4	3	1	3	2	3
5	4	4	3	2	2
6	4	1	2	3	4
7	2	2	2	2	1
8	4	2	3	3	4
9	3	2	2	1	2
10	4	2	3	3	3
11	3	1	3	2	5

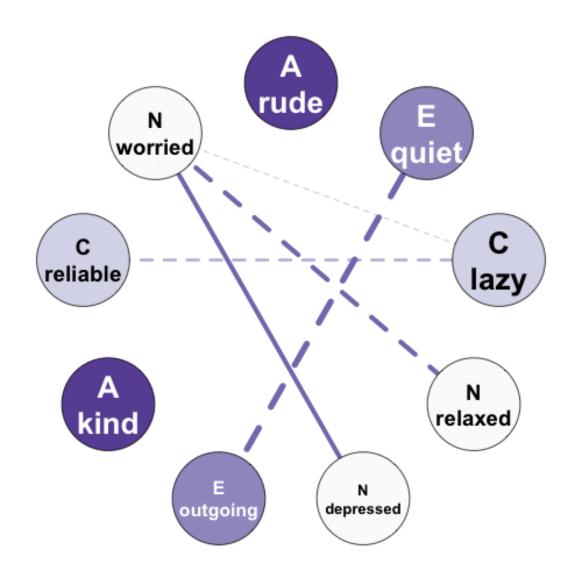


Contemporaneous: Within Time-Points $X_{it} \leftarrow \rightarrow X_{jt}$

Personality as a Cognitive Affective Personality System (CAPS)

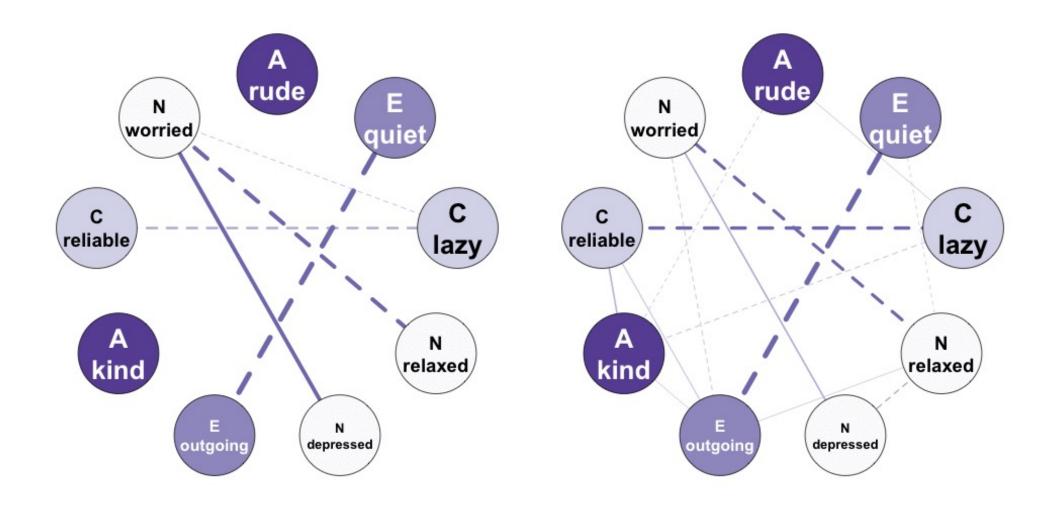


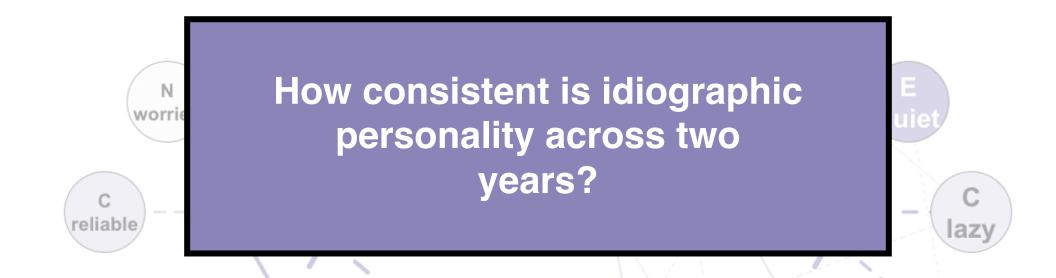
Feedback Loops



The systems differ across people.

But do they show expected longitudinal consistency?





Idiographic Personality is consistent over two years

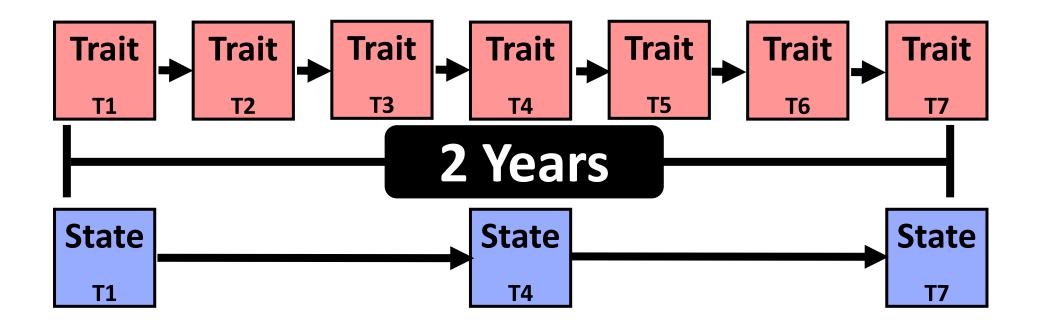
As well as global events and a number of life events.

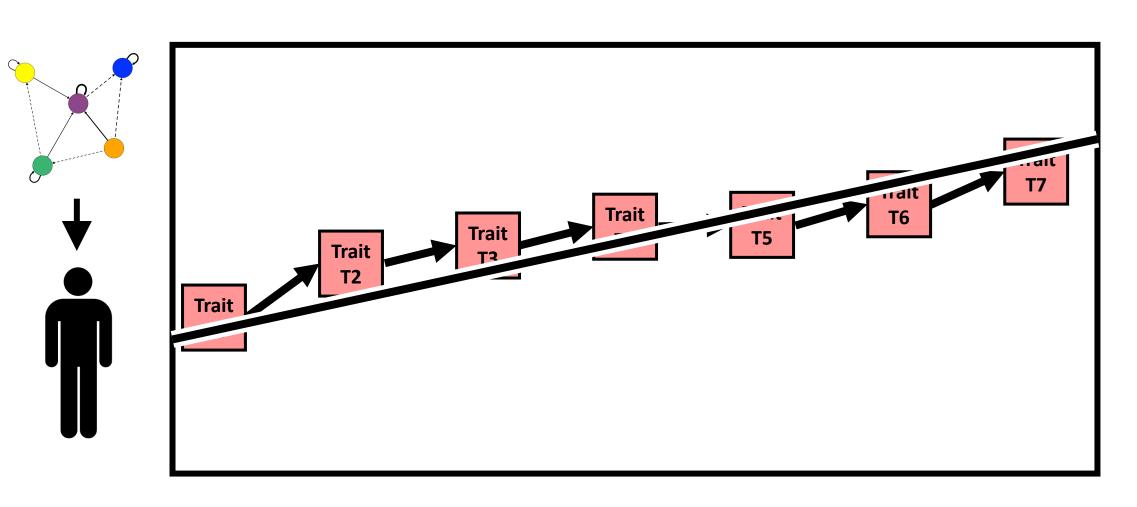
Research Questions

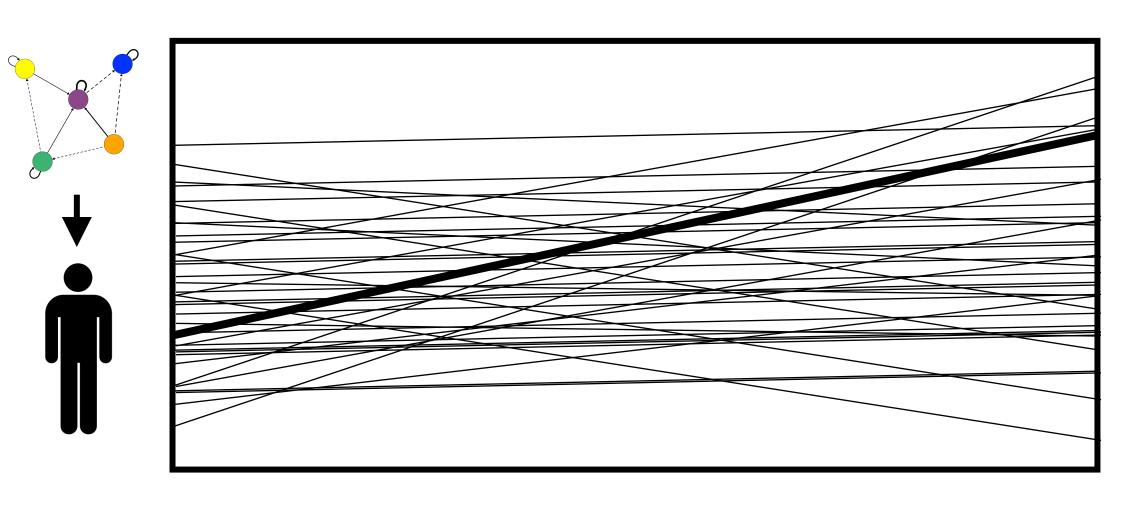
Systems are unique but longitudinally consistent, on average

2

Associations between person-specific systems and longitudinal trait change







Research Framework

Properties of Idiographic Personality Networks:

Density

Dense systems are unstable

Entropy

Interdependency can lead to cascading effects

Ipsative (network) consistency

Inconsistency should be reflected in meanlevels

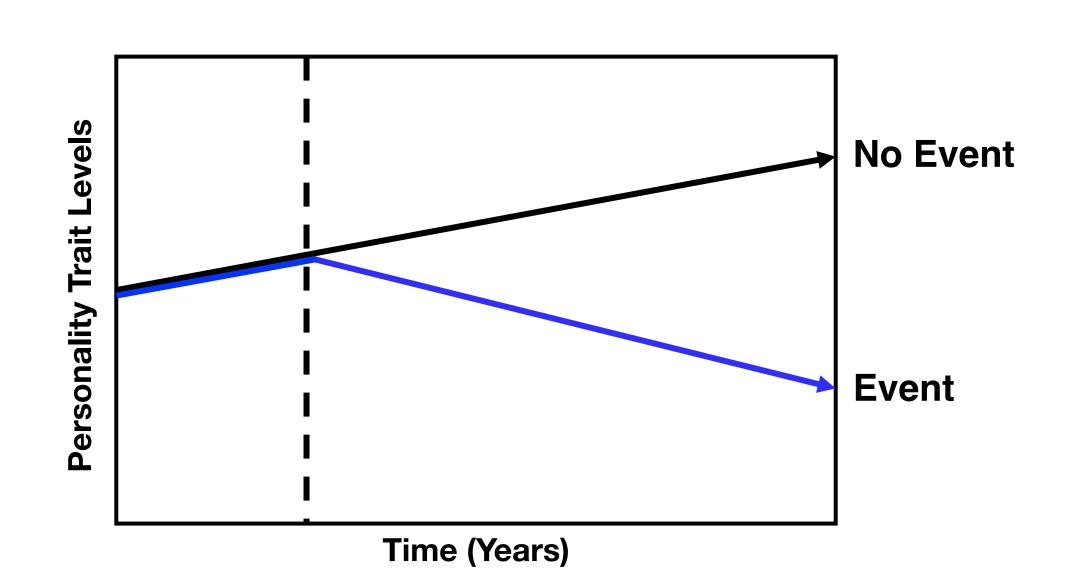
Total Correlation

Total shared information may reflect susceptibility to perturbations

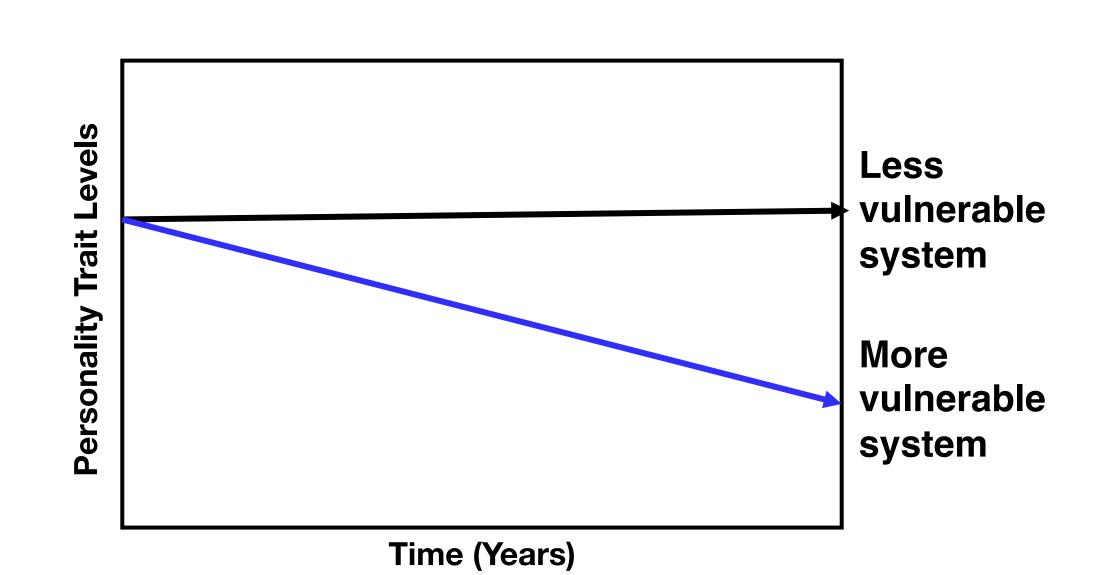
NMI

The Big Five structure may reflect exogenous forces (i.e. attractors)

Systems Perspectives: Persons in Context

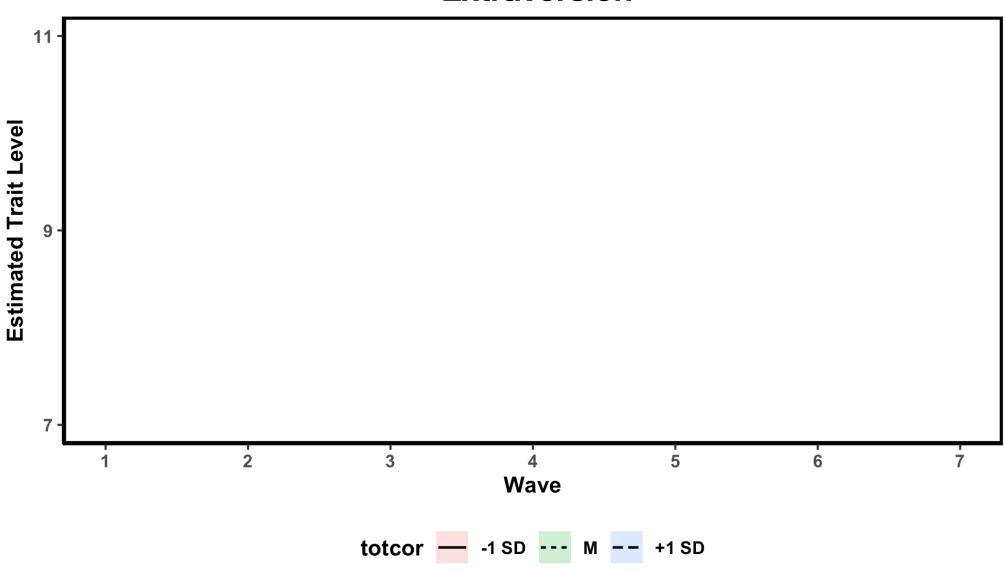


Systems Perspectives: Persons in Context

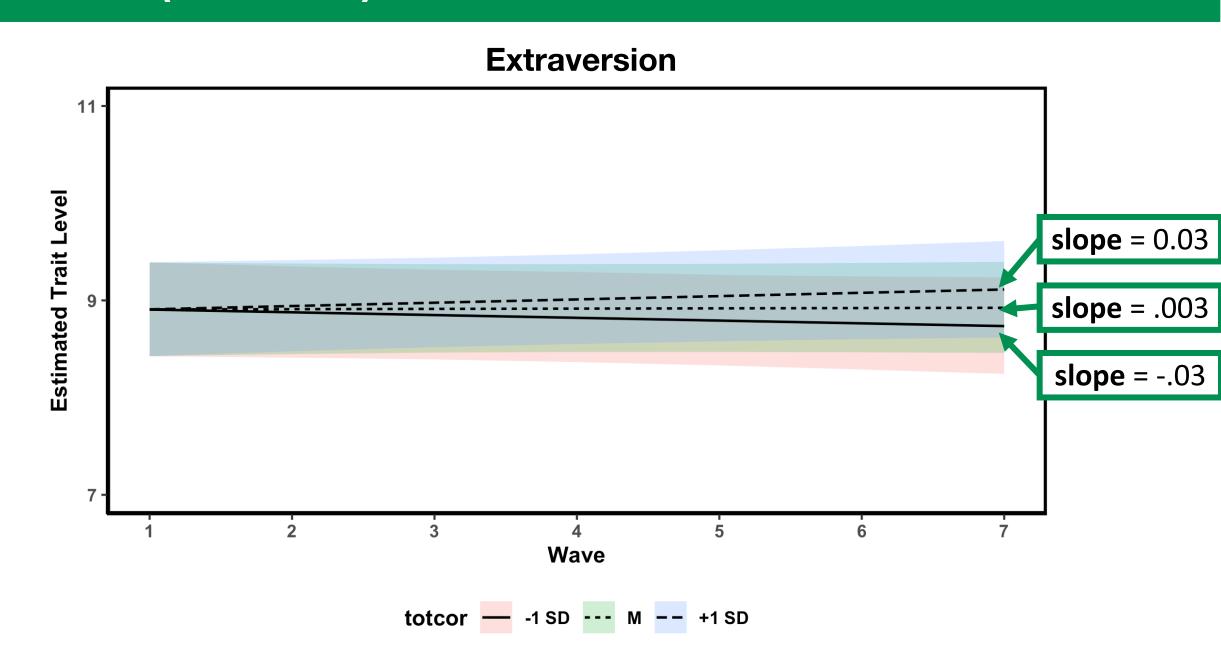


(Extended) Basic Multilevel Growth Model



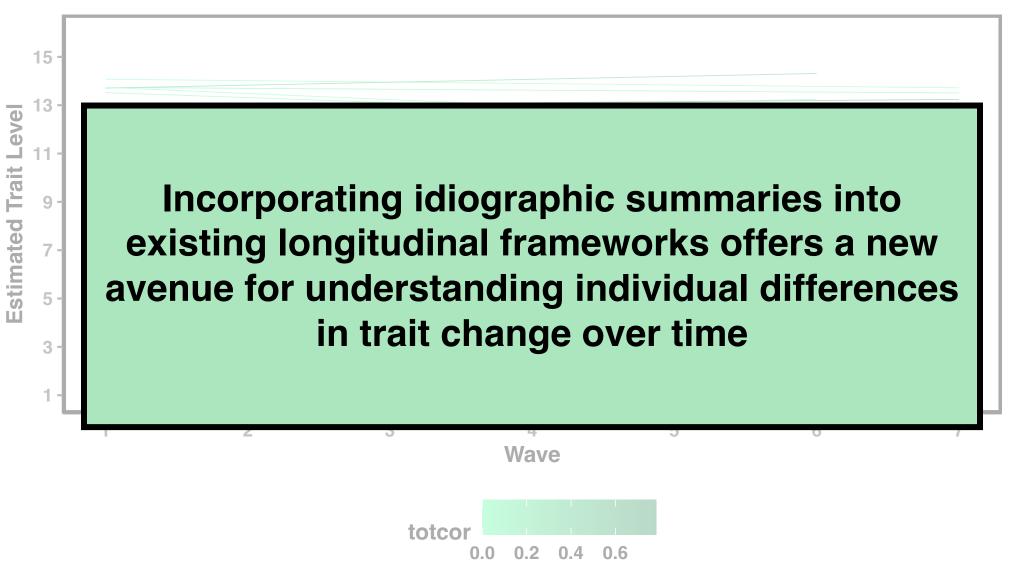


(Extended) Basic Multilevel Growth Model



(Extended) Basic Multilevel Growth Model

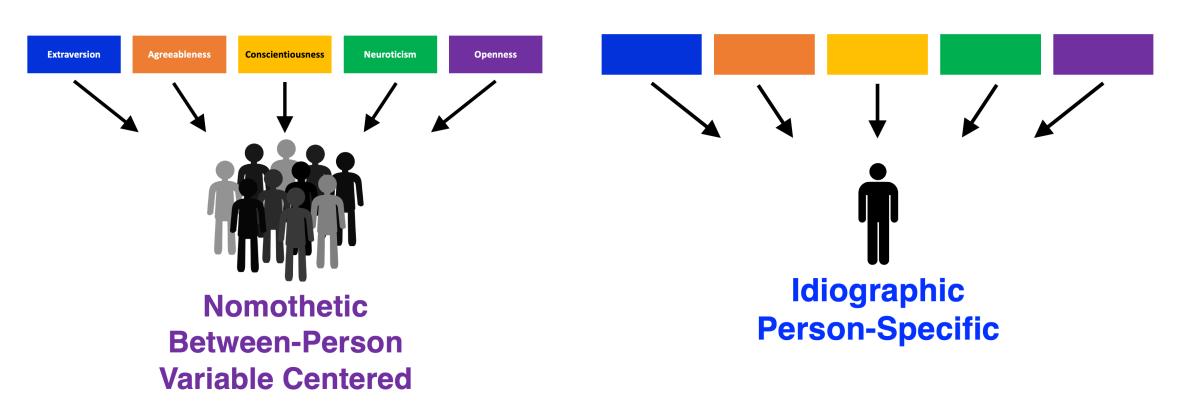




So what does it mean for a person to change?

Change is more than mean levels, and understanding change requires more than mean levels, too.

It's time to move beyond two sciences of personality.



So what does it mean for a person to change?

Lingering Challenges

Measurement

Ensuring measures are optimized to detect change

Longitudinal Designs

Longitudinal burst designs to for short- and long-term change

Experimental Designs

Tailored interventions & N = 1 Trials

Folk Theories of Change

Open ended surveys and narrative methods (How do understand change?)

Statistical Models

Examining changing dynamics, not just changing levels

Thank You!

Materials & Contact



https://psyarxiv.com/pb92q/



https://osf.io/fyxza/



https://emoriebeck.shinyapps.io/





https://osf.io/rkunv



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