
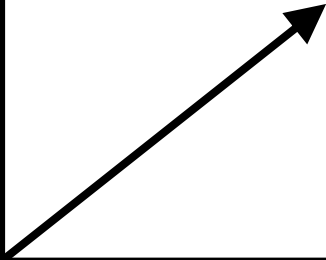
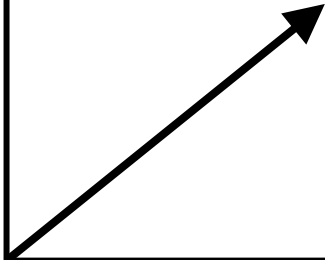
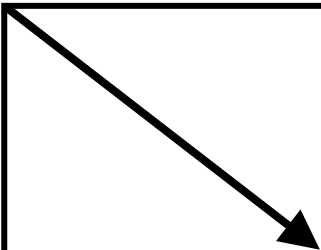

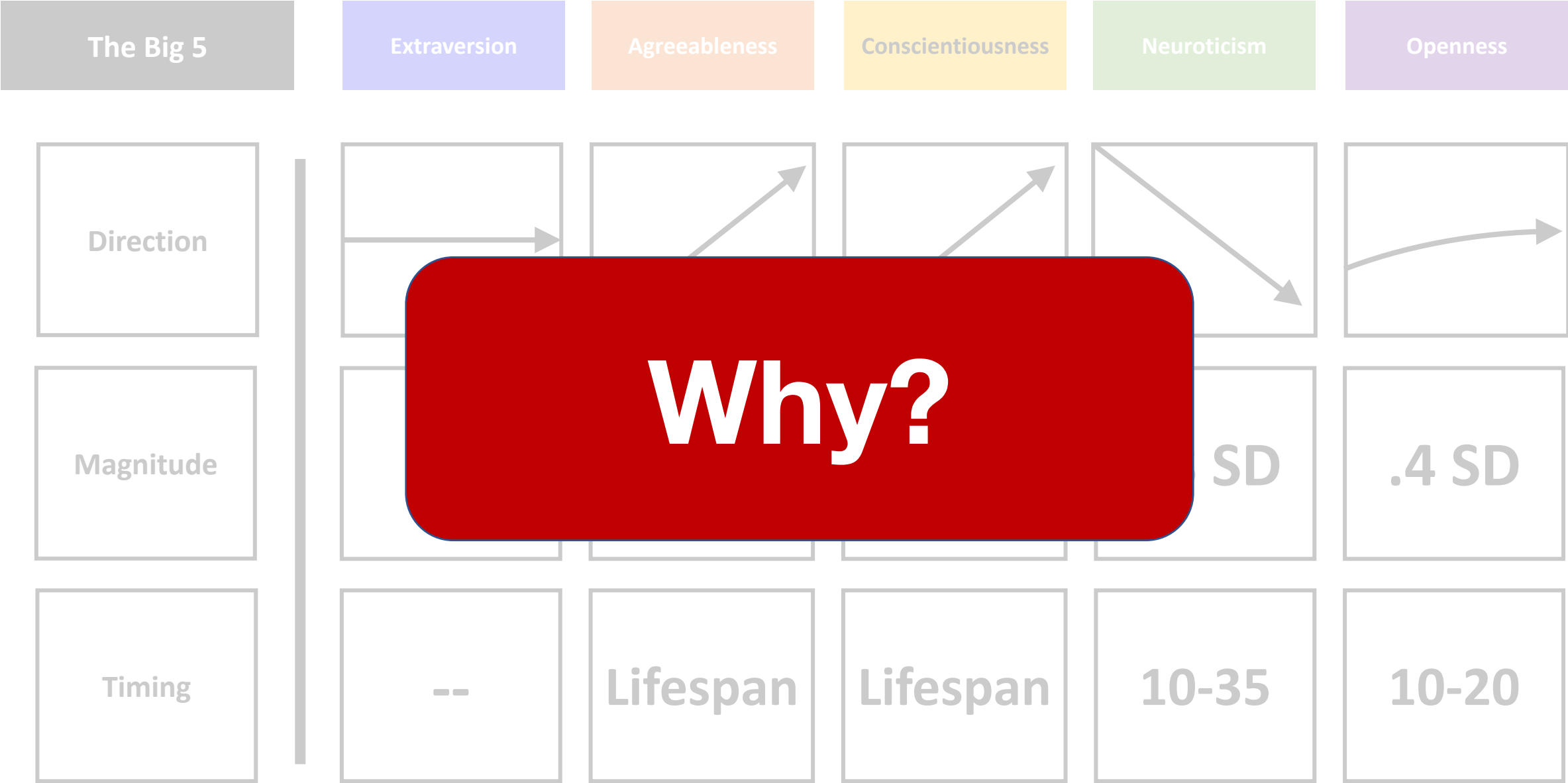


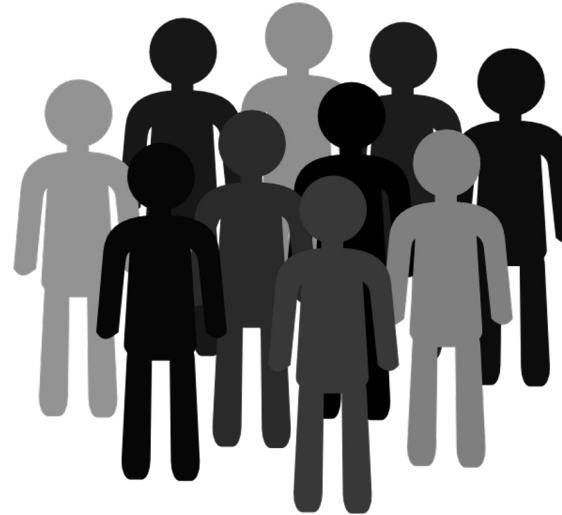
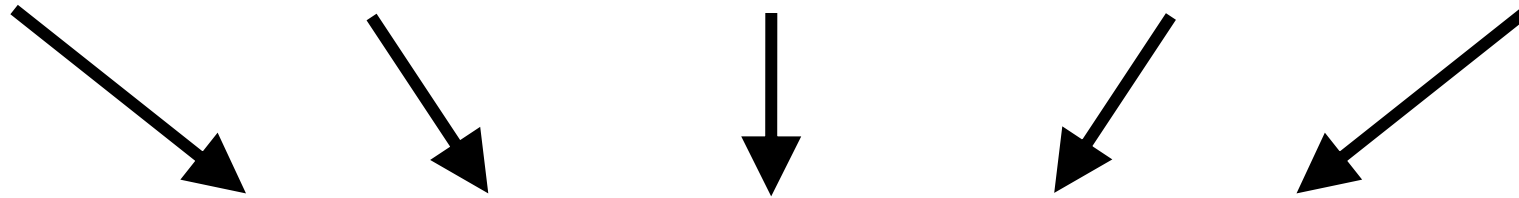
Using Idiographic Features to Inform Between-Person Personality Change

Emorie D. Beck, PhD

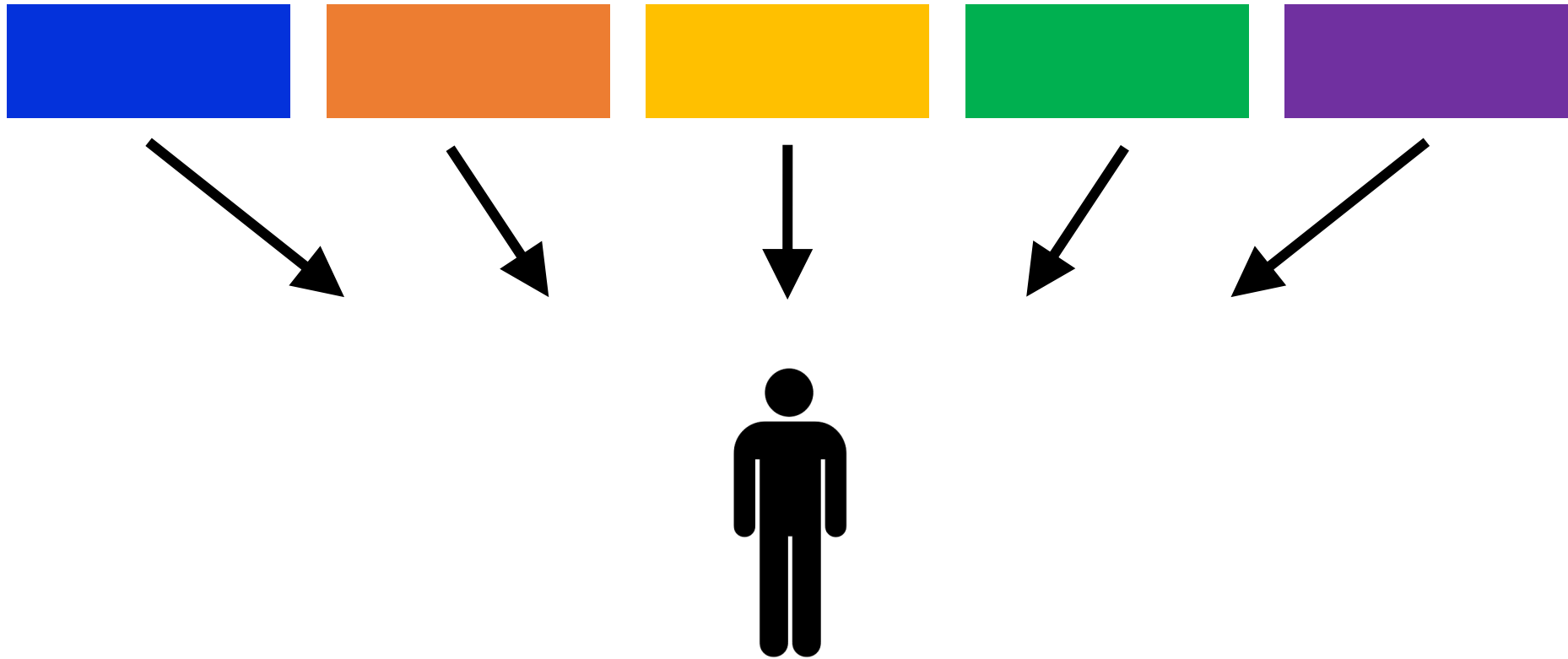


The Big 5	Extraversion	Agreeableness	Conscientiousness	Neuroticism	Openness
Direction					
Magnitude	--	.6 SD	1 SD	-.8 SD	.4 SD
Timing	--	Lifespan	Lifespan	10-35	10-20

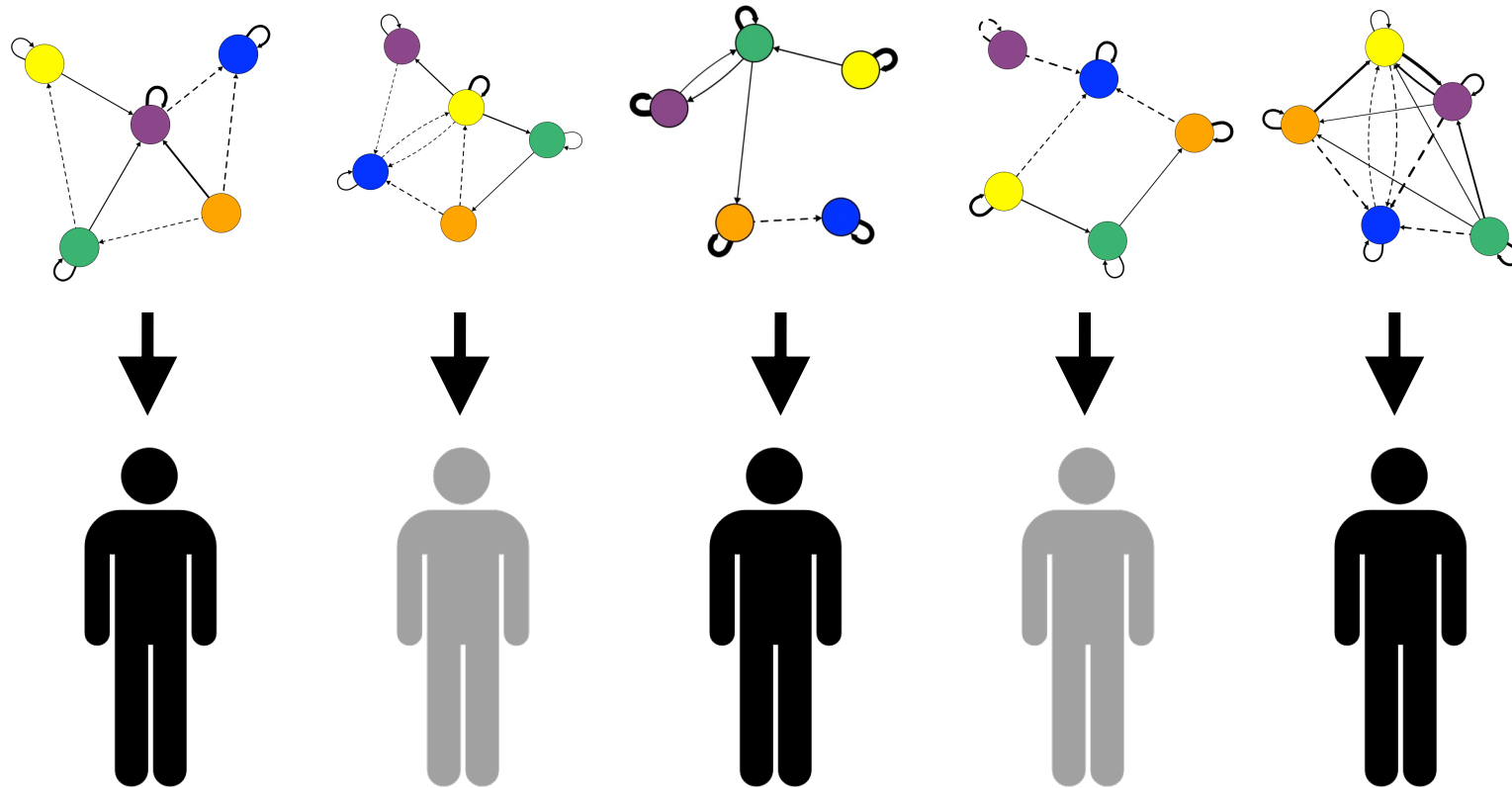




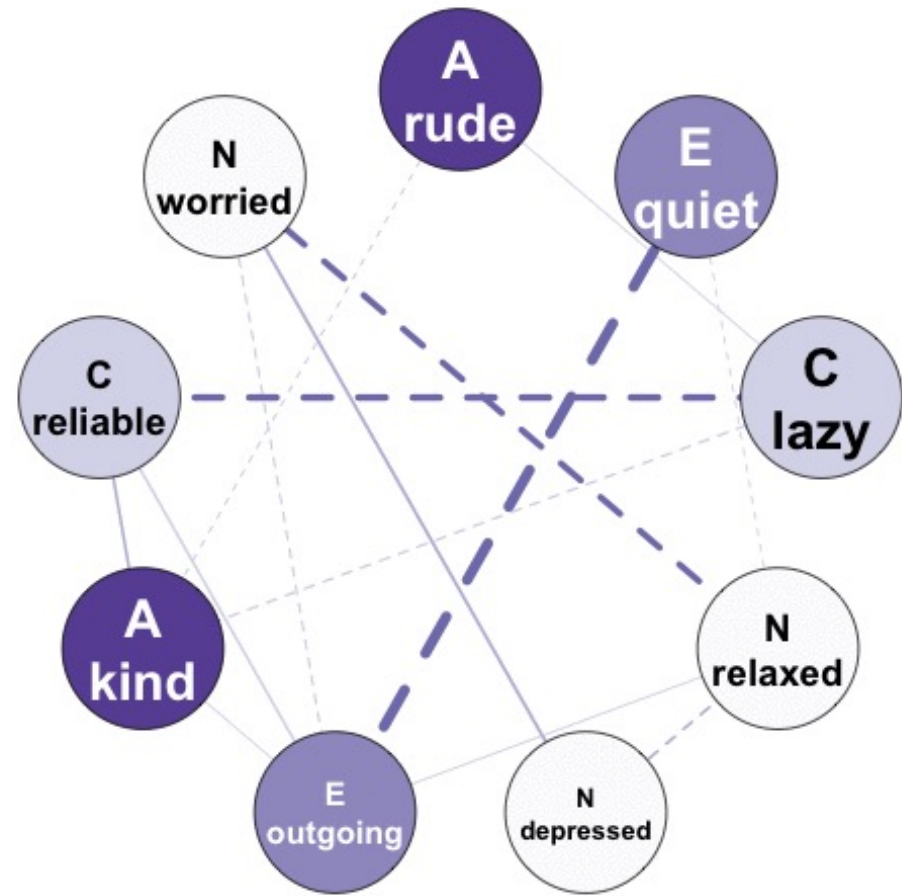
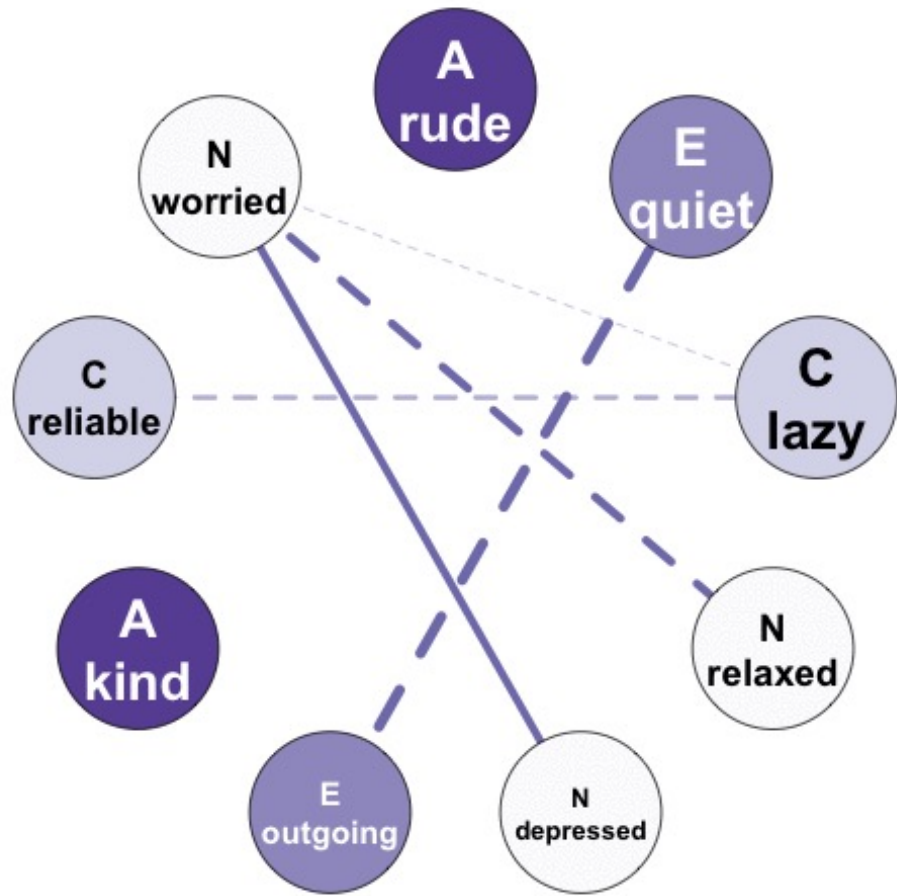
Nomothetic
Between-Person
Variable Centered

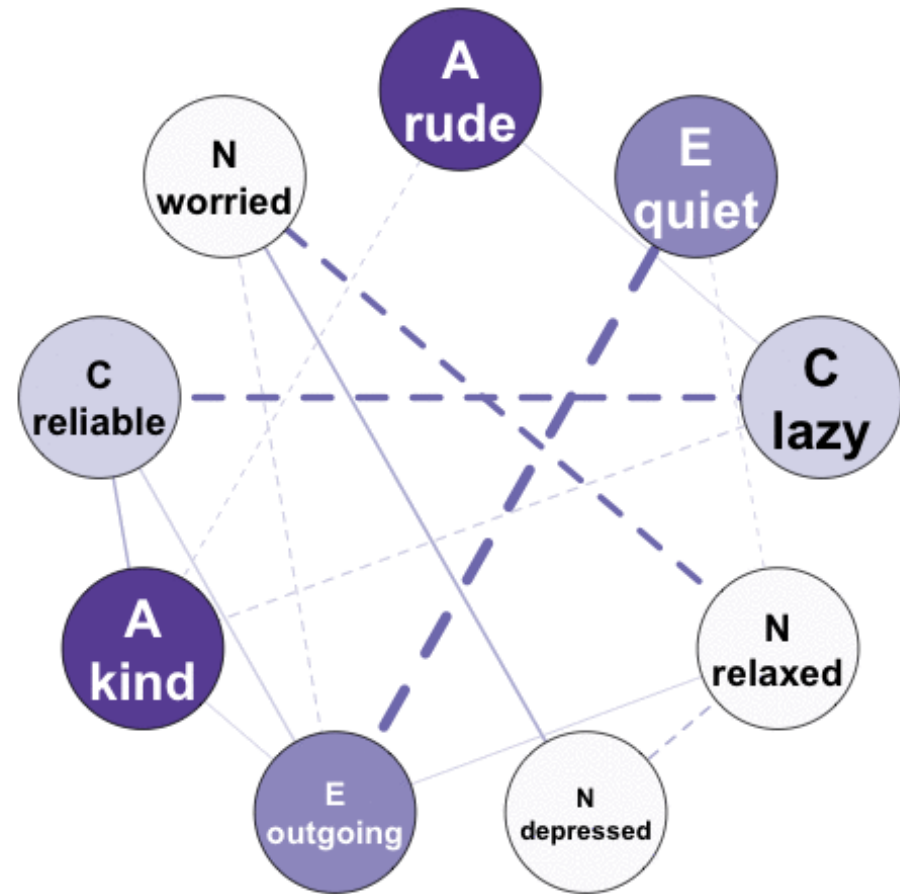
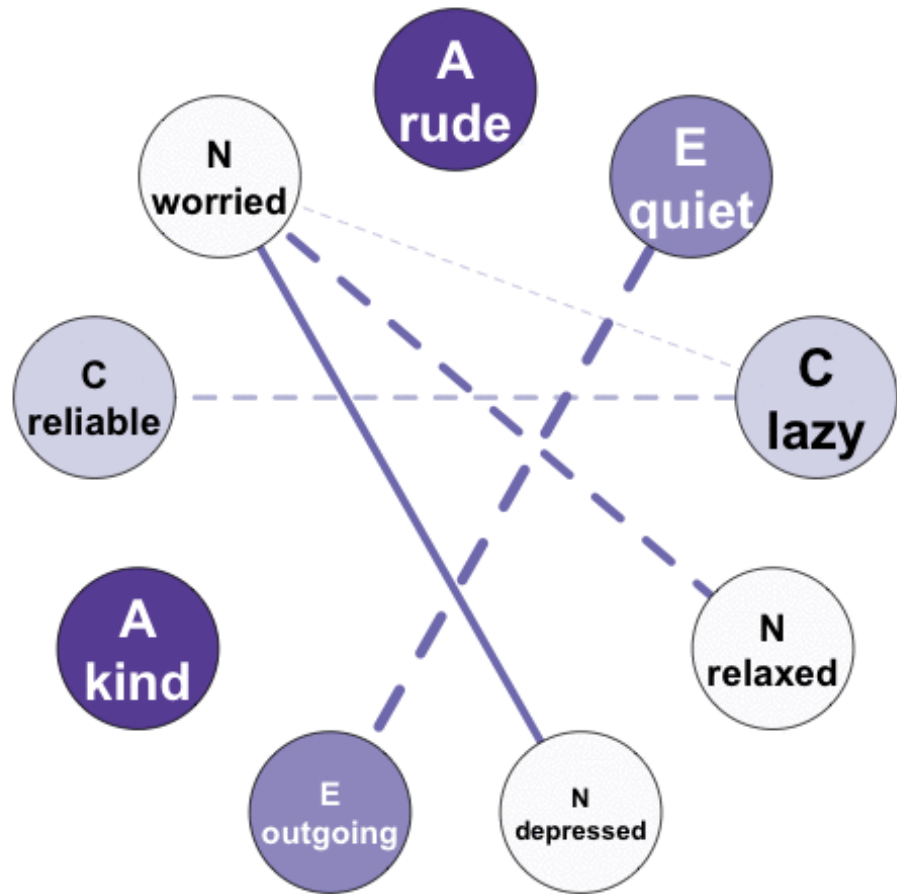


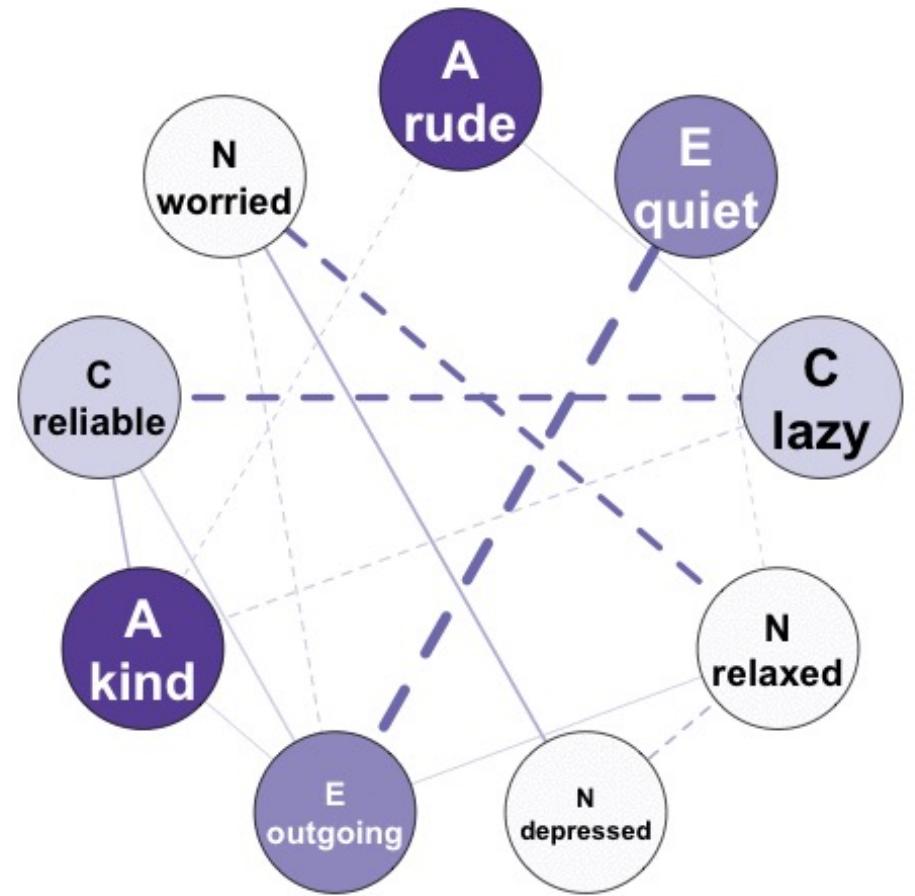
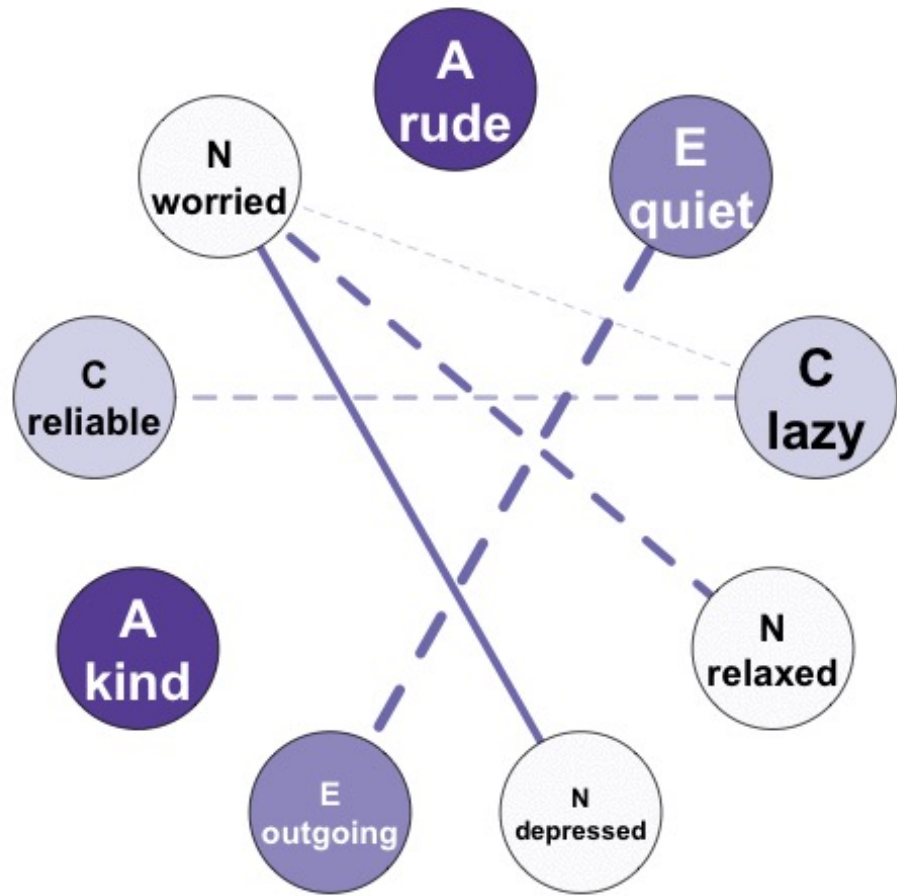
**Idiographic
Person-Specific**



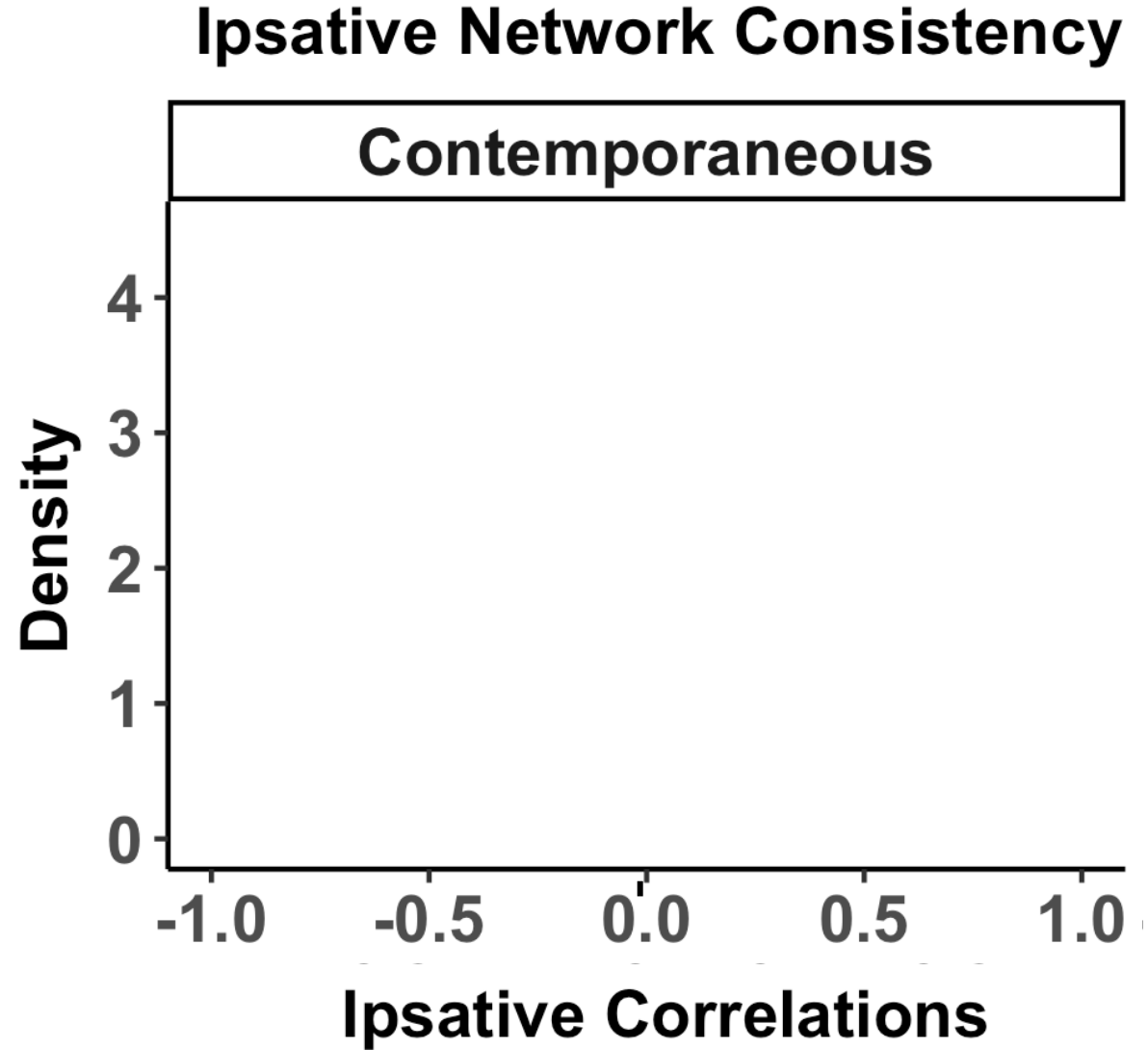
Idiographic
Person-Specific





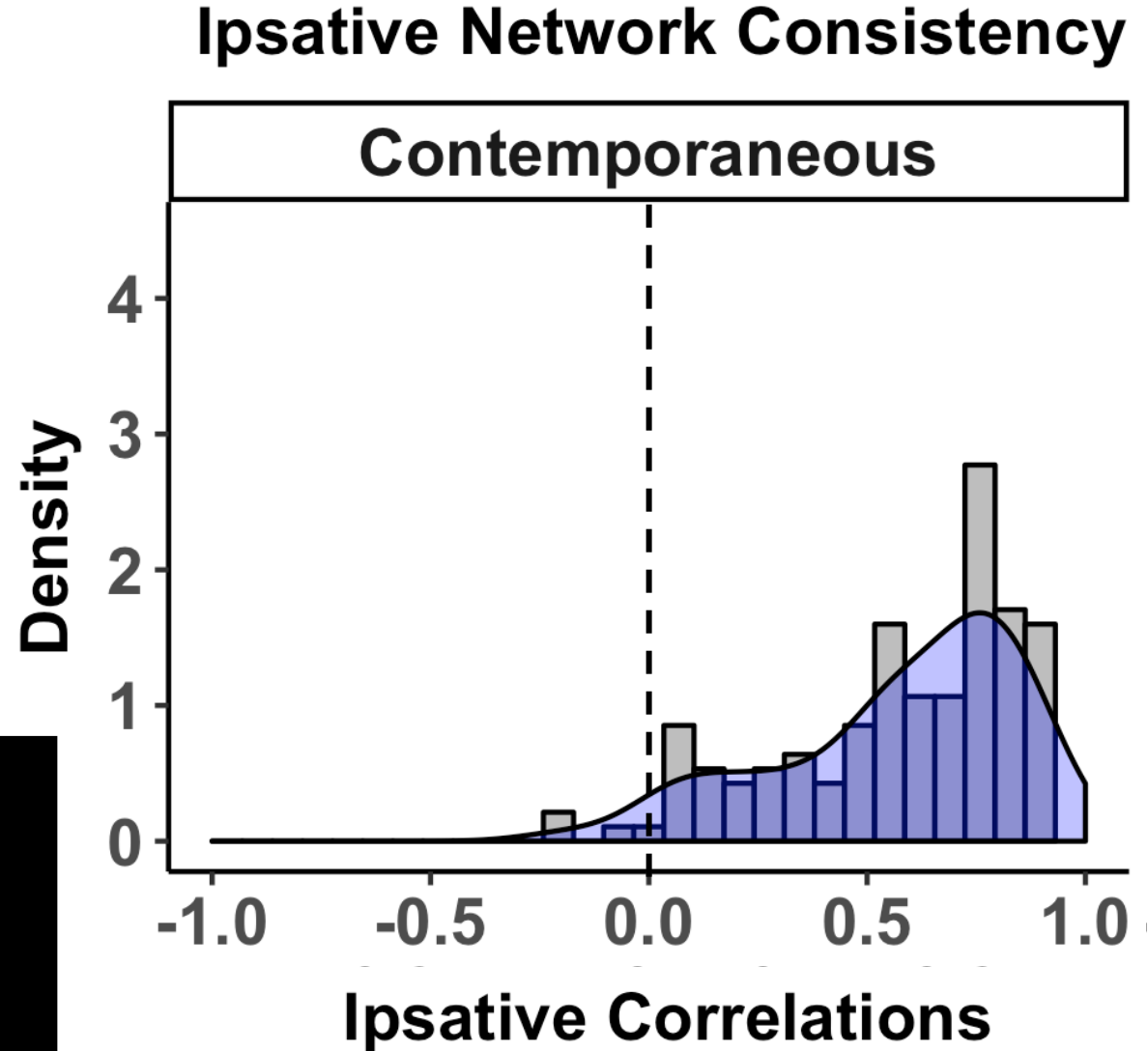


How consistent is
idiographic personality
across two
years?



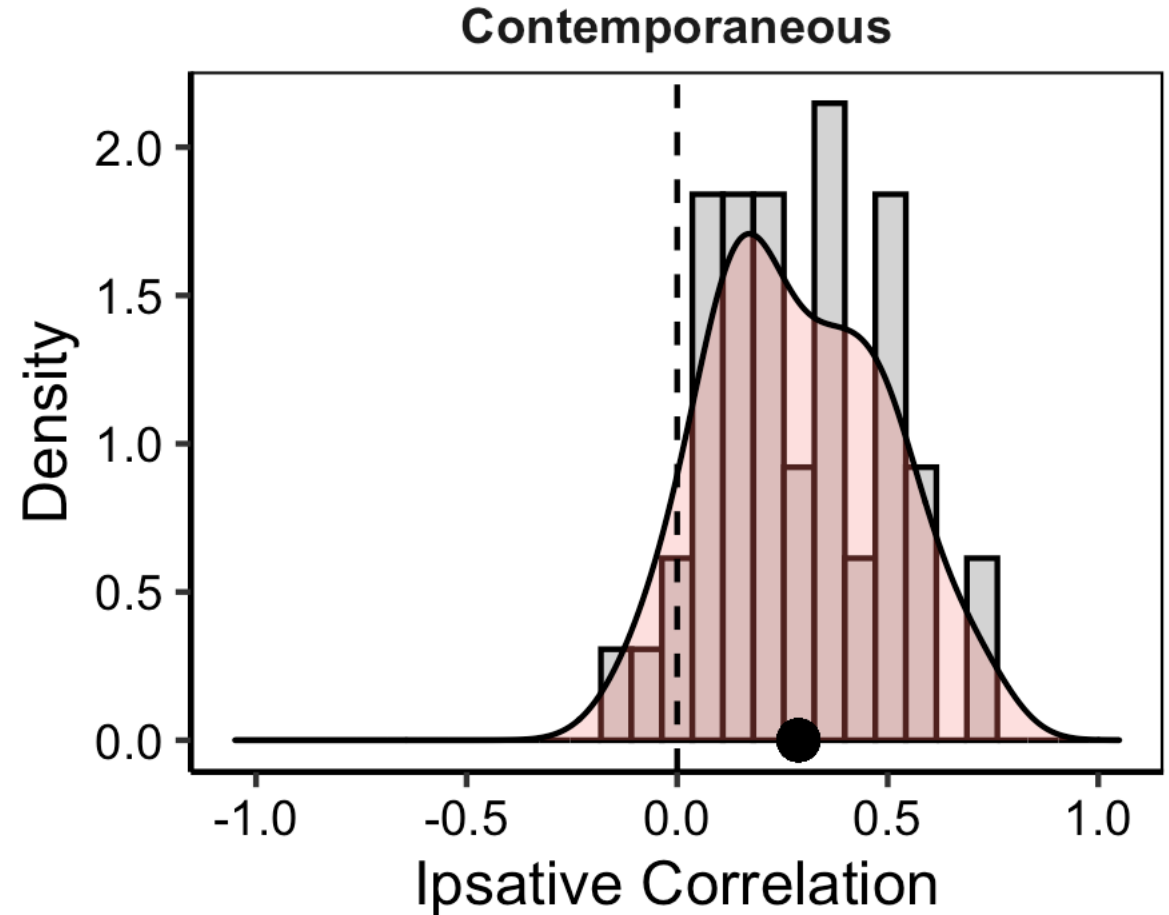
How consistent is
idiographic personality
across two
years?

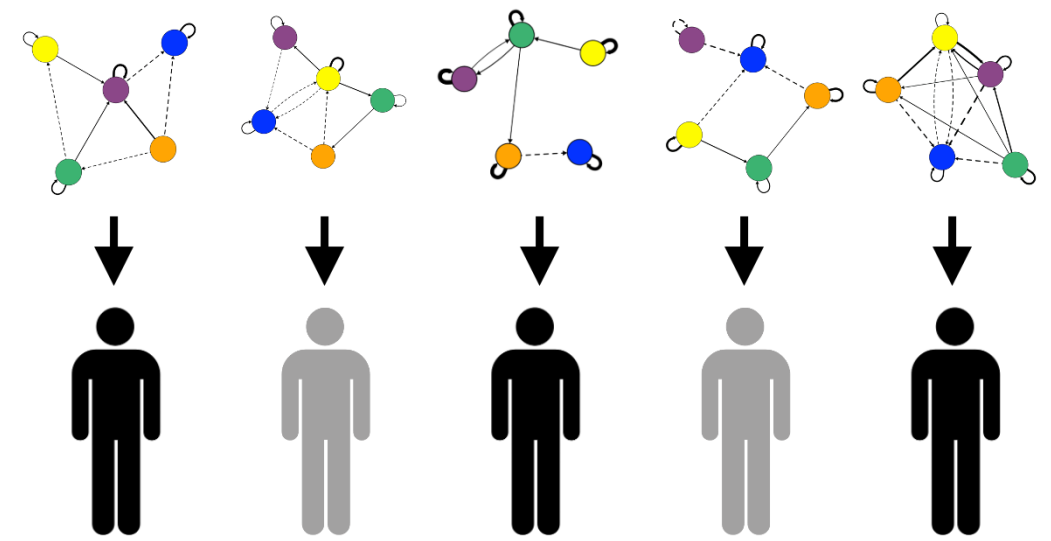
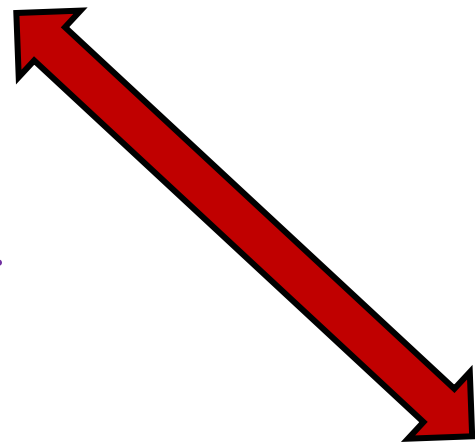
Idiographic Personality
is consistent over two
years.



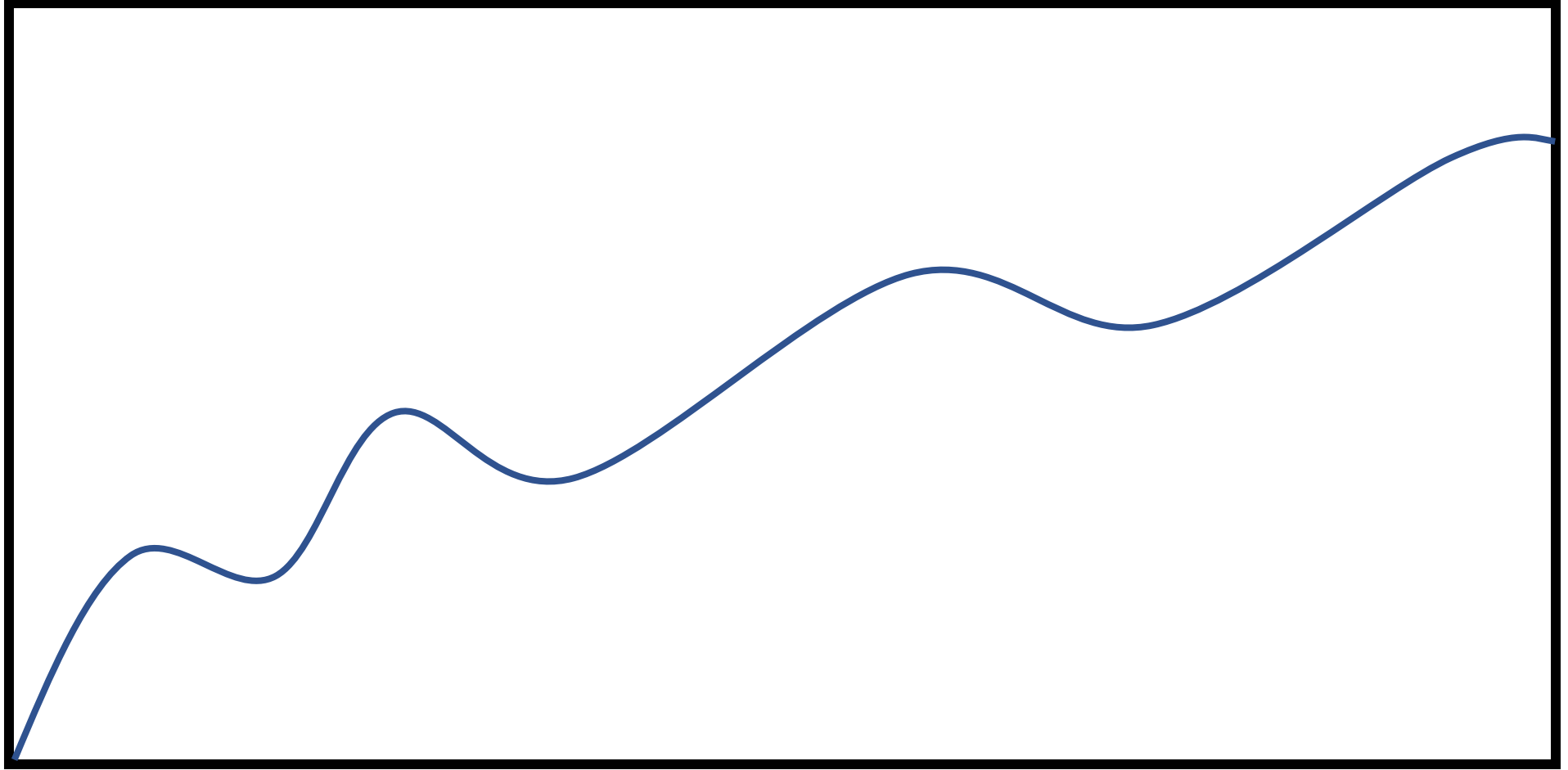
How consistent is
idiographic personality
across two
years?

Idiographic Personality
is consistent over two
years AND global events.

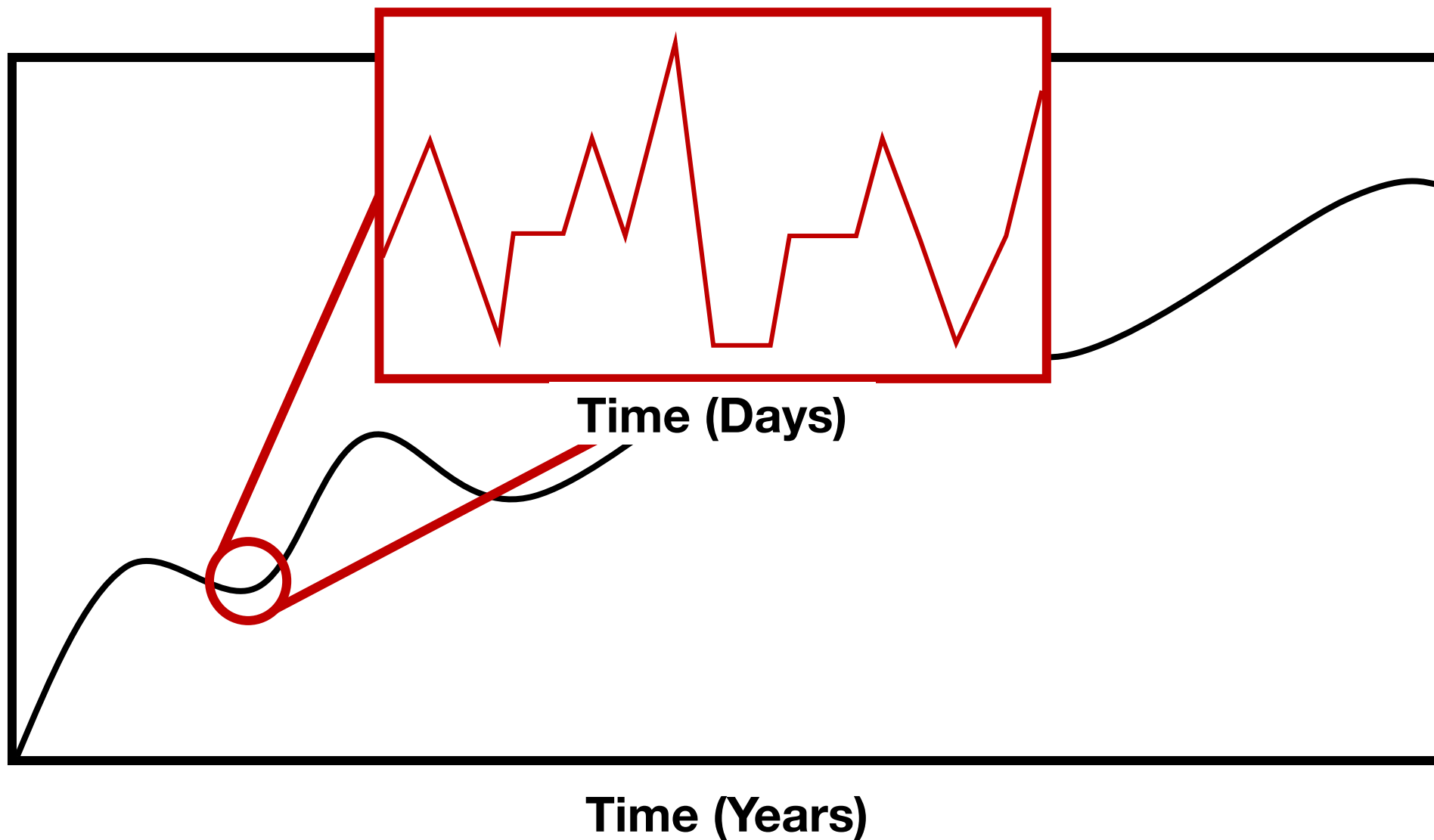




**Idiographic
Person-Centered**



Time (Years)



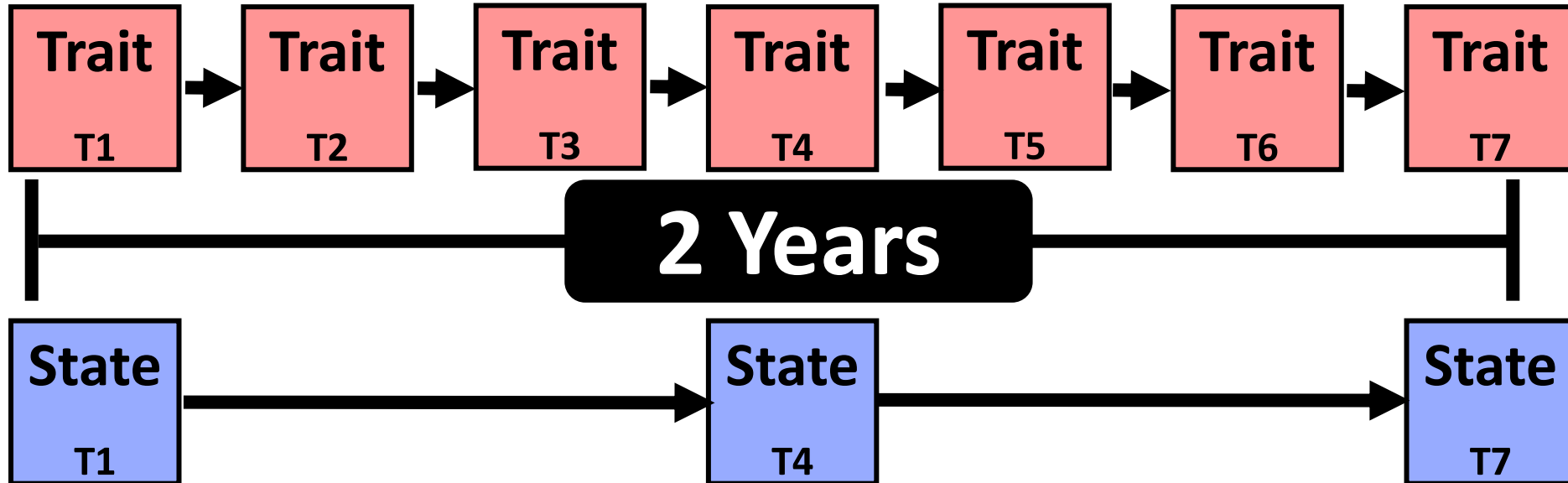
Extraversion

Agreeableness

Conscientiousness

Neuroticism

Openness



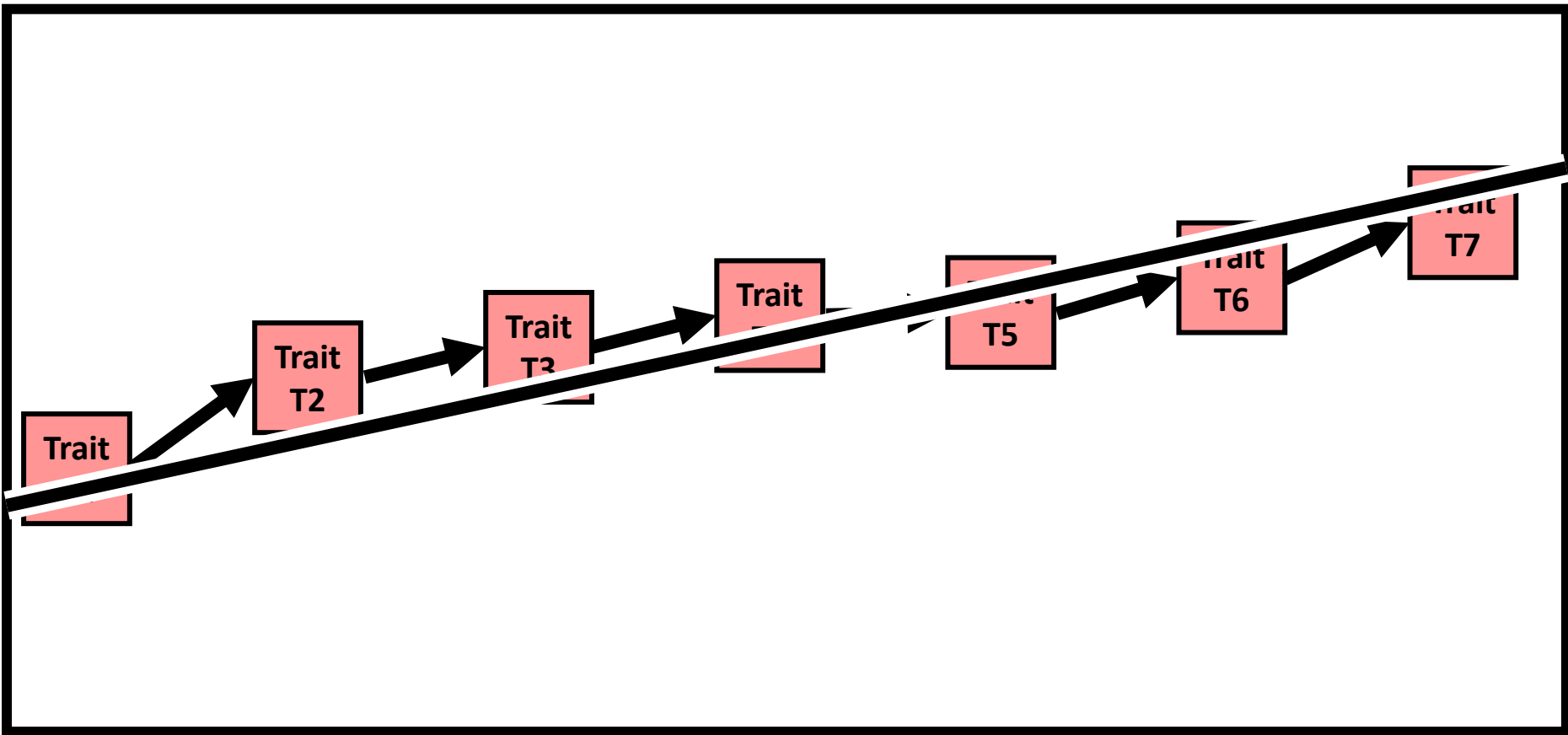
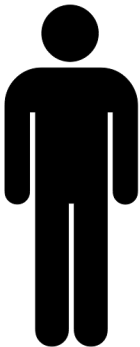
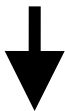
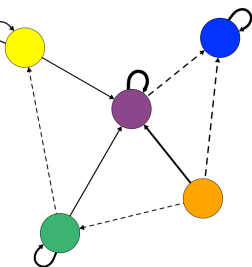
Extraversion

Agreeableness

Conscientiousness

Neuroticism

Openness



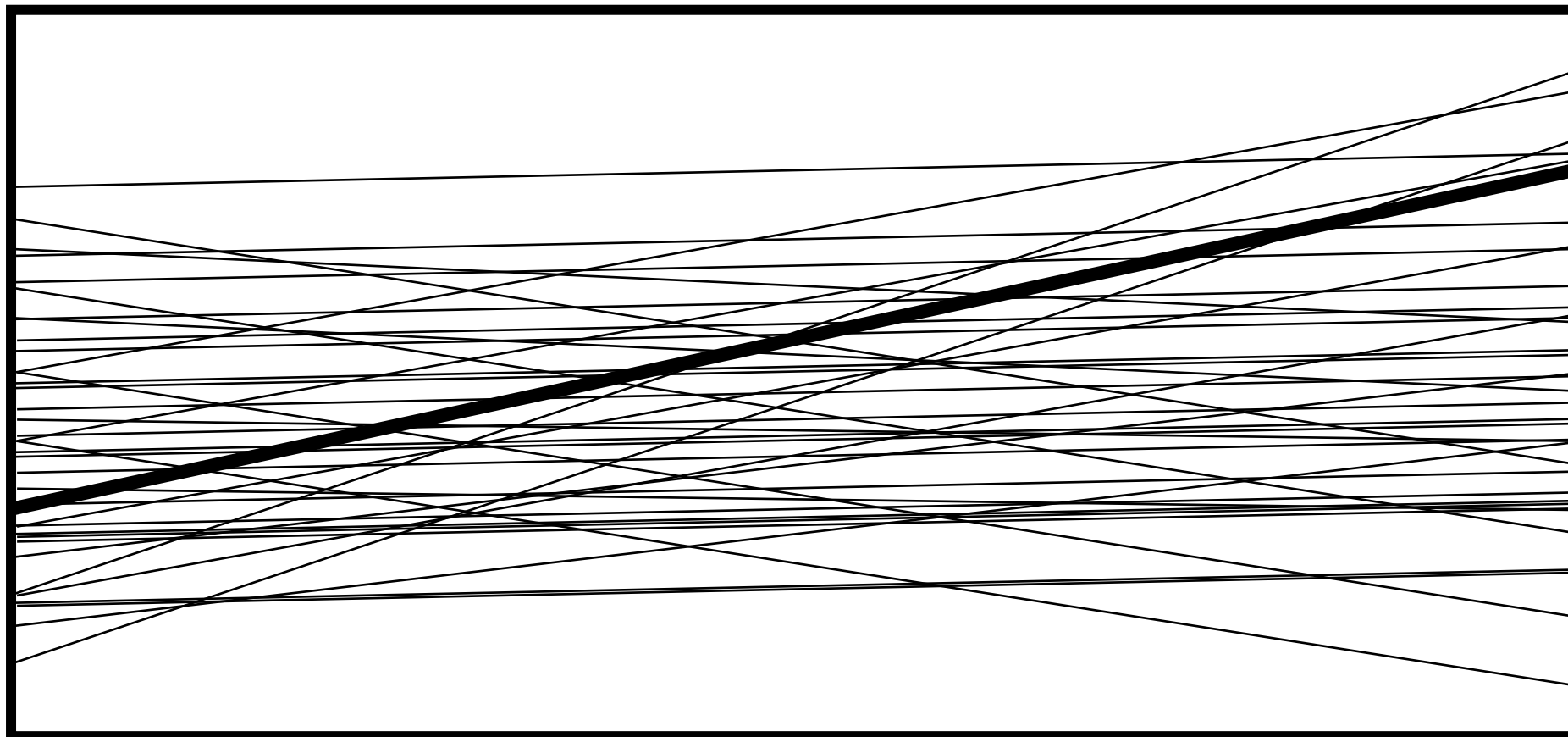
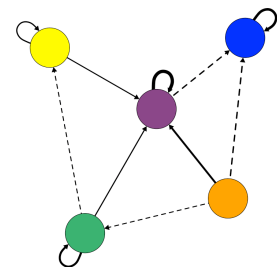
Extraversion

Agreeableness

Conscientiousness

Neuroticism

Openness



Research Framework

**Trajectories of Mean-Level
Trait Change**

**Trajectories of Ipsative Trait
Consistency**

**Properties of Idiographic
Personality Networks:**

Density

Entropy

Ipsative (network) consistency

Total Correlation

NMI

Methods

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

N = 434 Washington University in St. Louis 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

Basic Multilevel Growth Model

Level 1:

$$Y_{it} = \beta_{0i} + \beta_{1i} * time_{it} + \varepsilon_{it}$$

Level 2:

$$\beta_{0i} = \gamma_{00} + u_{0i}$$

$$\beta_{1i} = \gamma_{10} + u_{1i}$$

β_{1i} = person-specific slope for individual i .



This is what we
want to predict
with idiographic
features!

(Extended) Basic Multilevel Growth Model

Level 1:

$$Y_{it} = \beta_{0i} + \beta_{1i} * time_{it} + \varepsilon_{it}$$

Level 2:

$$\beta_{0i} = \gamma_{00} + \gamma_{01} * X_i + u_{0i}$$

$$\beta_{1i} = \gamma_{10} + \gamma_{11} * X_i + u_{1i}$$



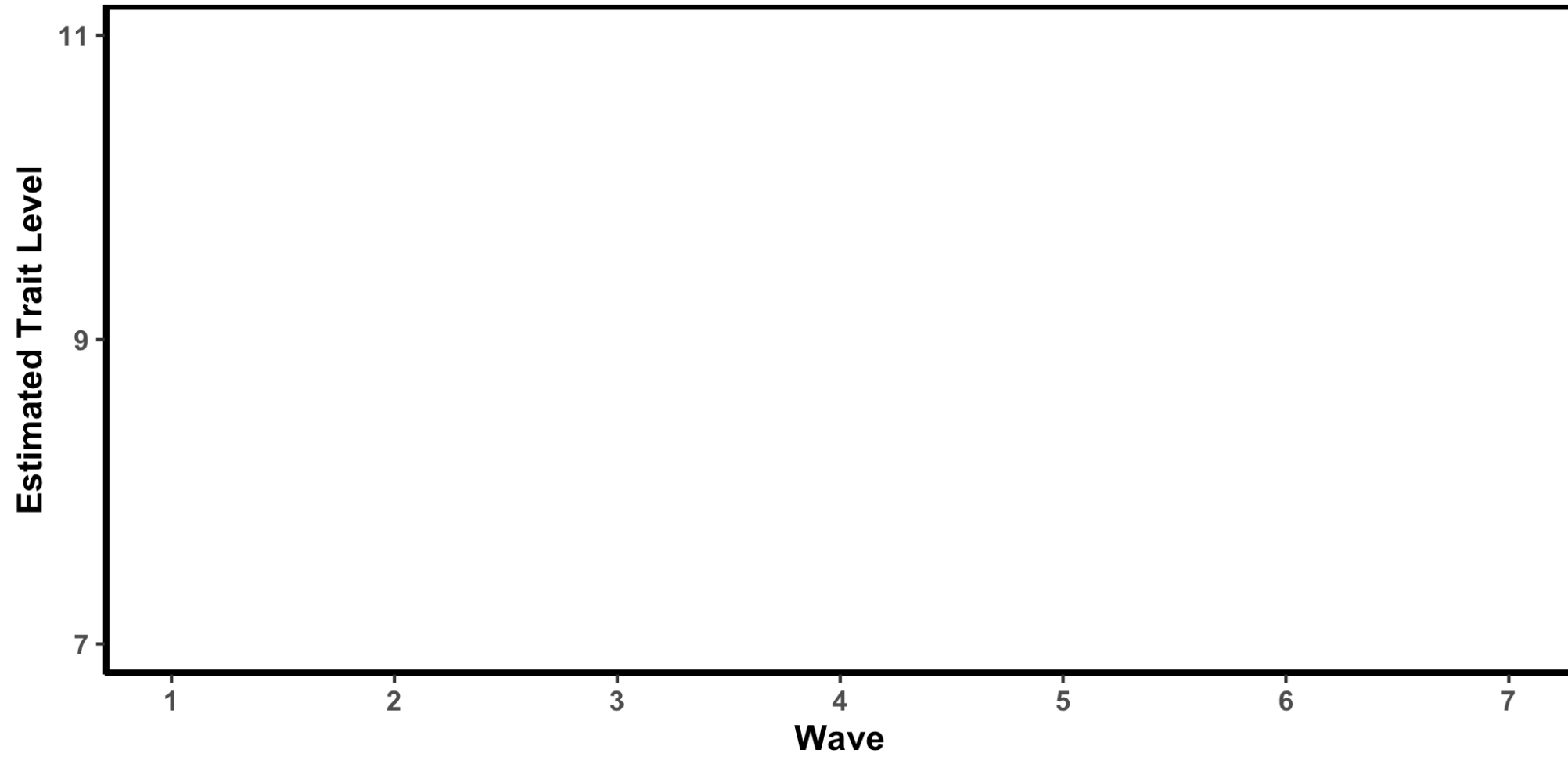
The idiographic features

β_{1i} = person-specific slope for individual i .

γ_{11} = average association between feature and slope.

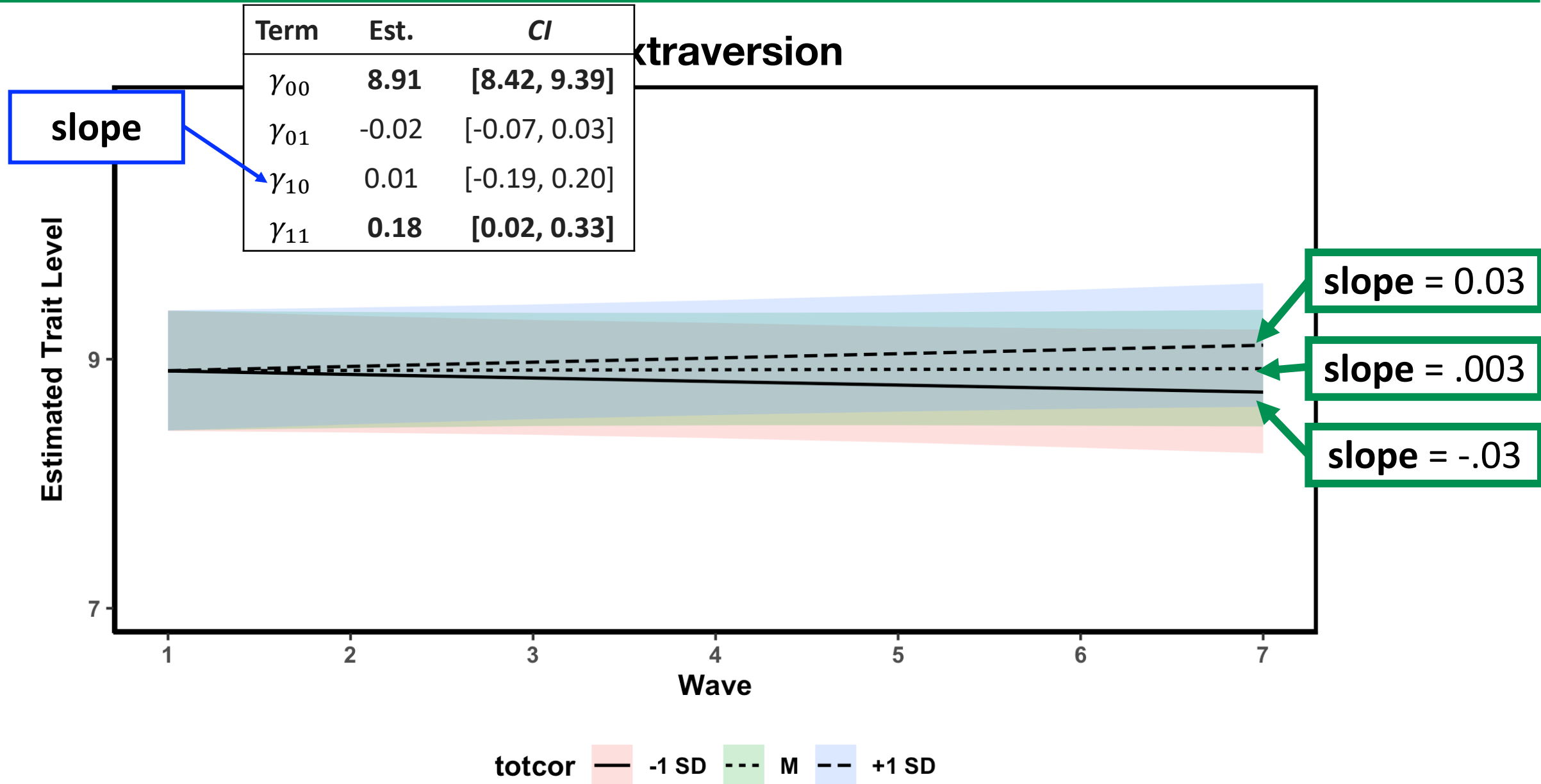
(Extended) Basic Multilevel Growth Model

Extraversion



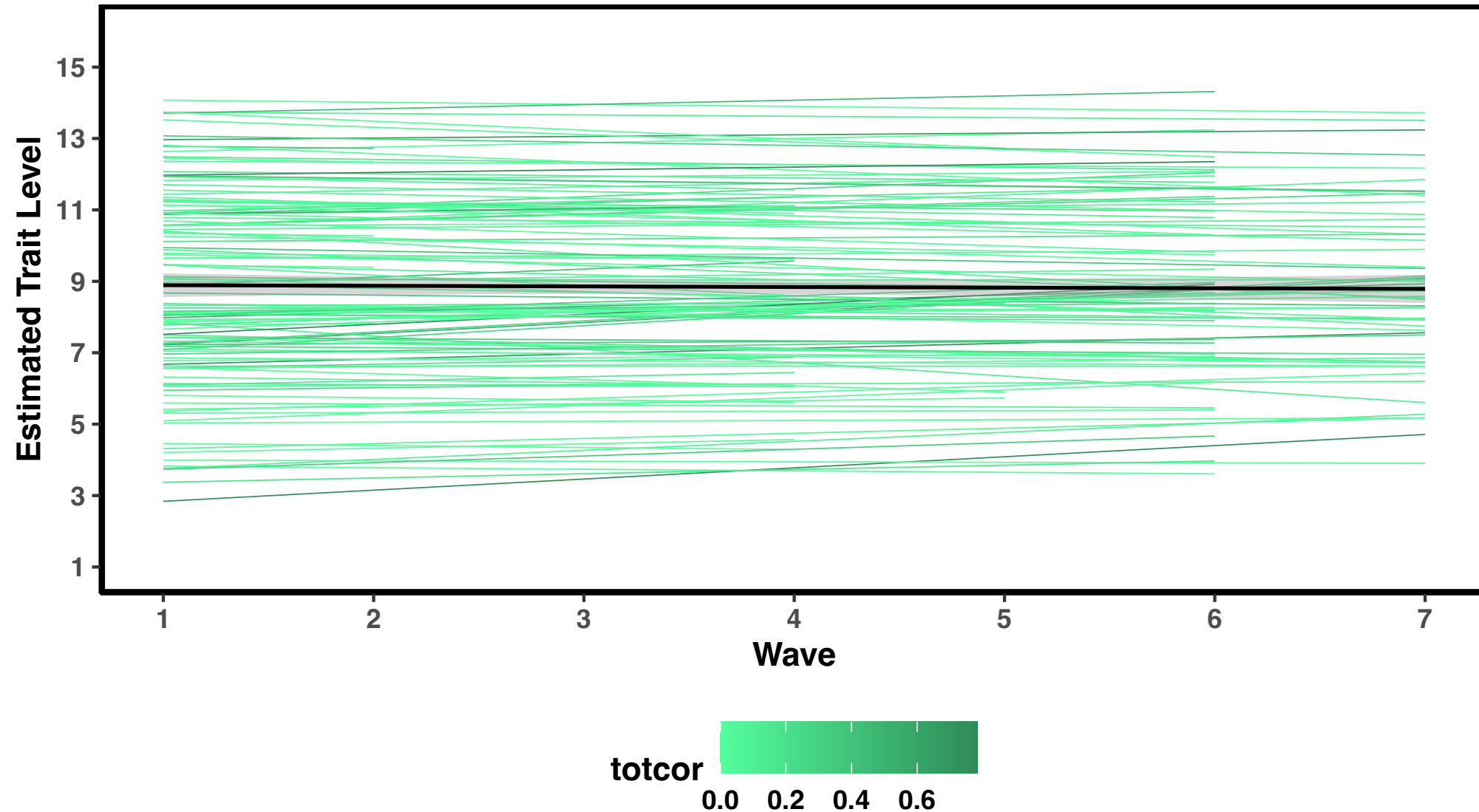
totcor — -1 SD --- M -- +1 SD

(Extended) Basic Multilevel Growth Model



(Extended) Basic Multilevel Growth Model

Extraversion



(Extended) Non-linear Asymptotic Multilevel Growth Model

Level 1:

$$Q_{it} = a_i + (a_i - \beta_{0i}) * e^{(-\beta_{1i} * time_{it})} + \varepsilon_{it}$$

Level 2:

$$\beta_{0i} = \gamma_{00} + \gamma_{01} * X_i + u_{0i}$$

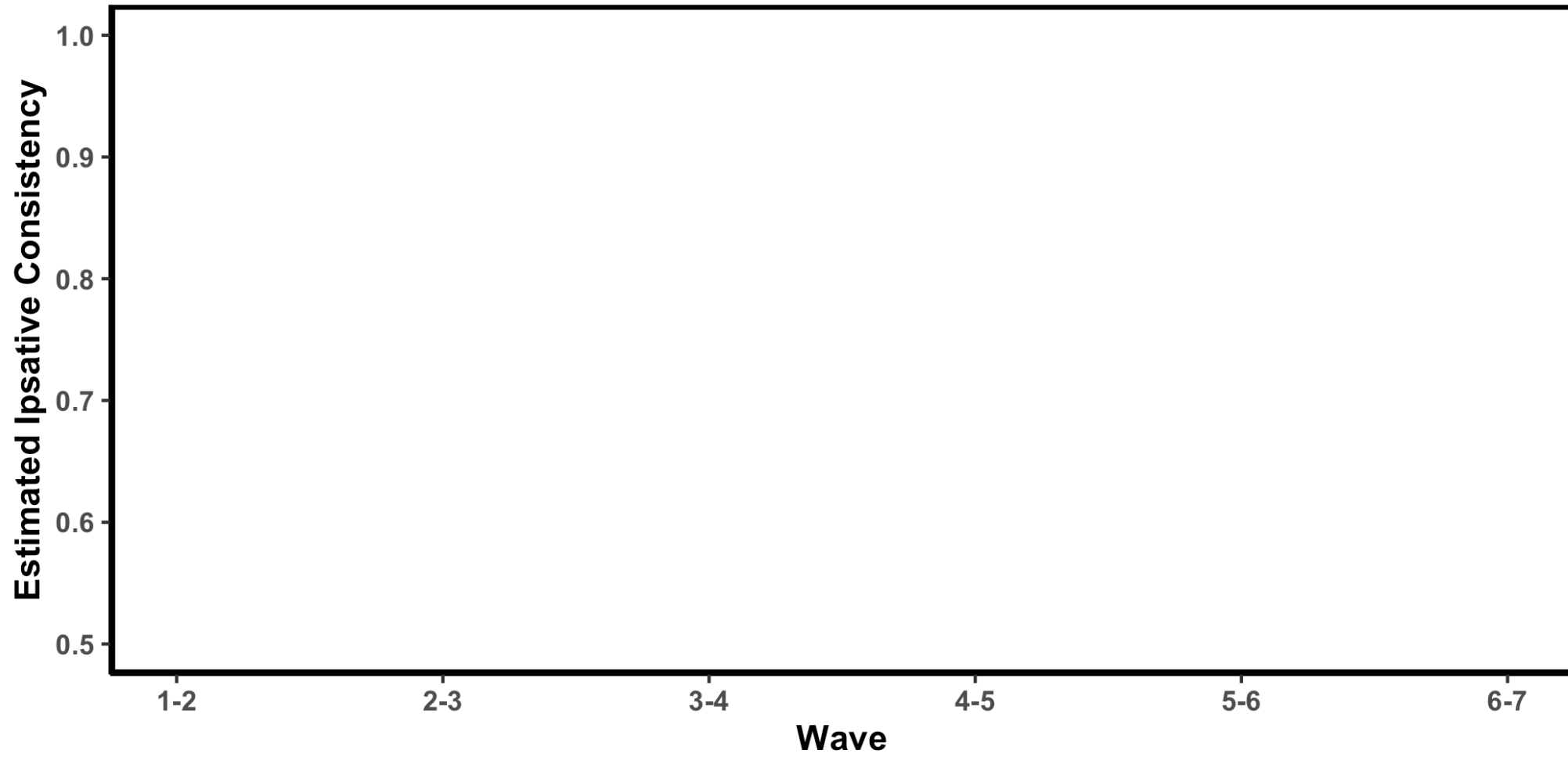
$$\beta_{1i} = \gamma_{10} + \gamma_{11} * X_i + u_{1i}$$

β_{1i} = person-specific slope for individual i .

γ_{11} = average association between feature and slope.

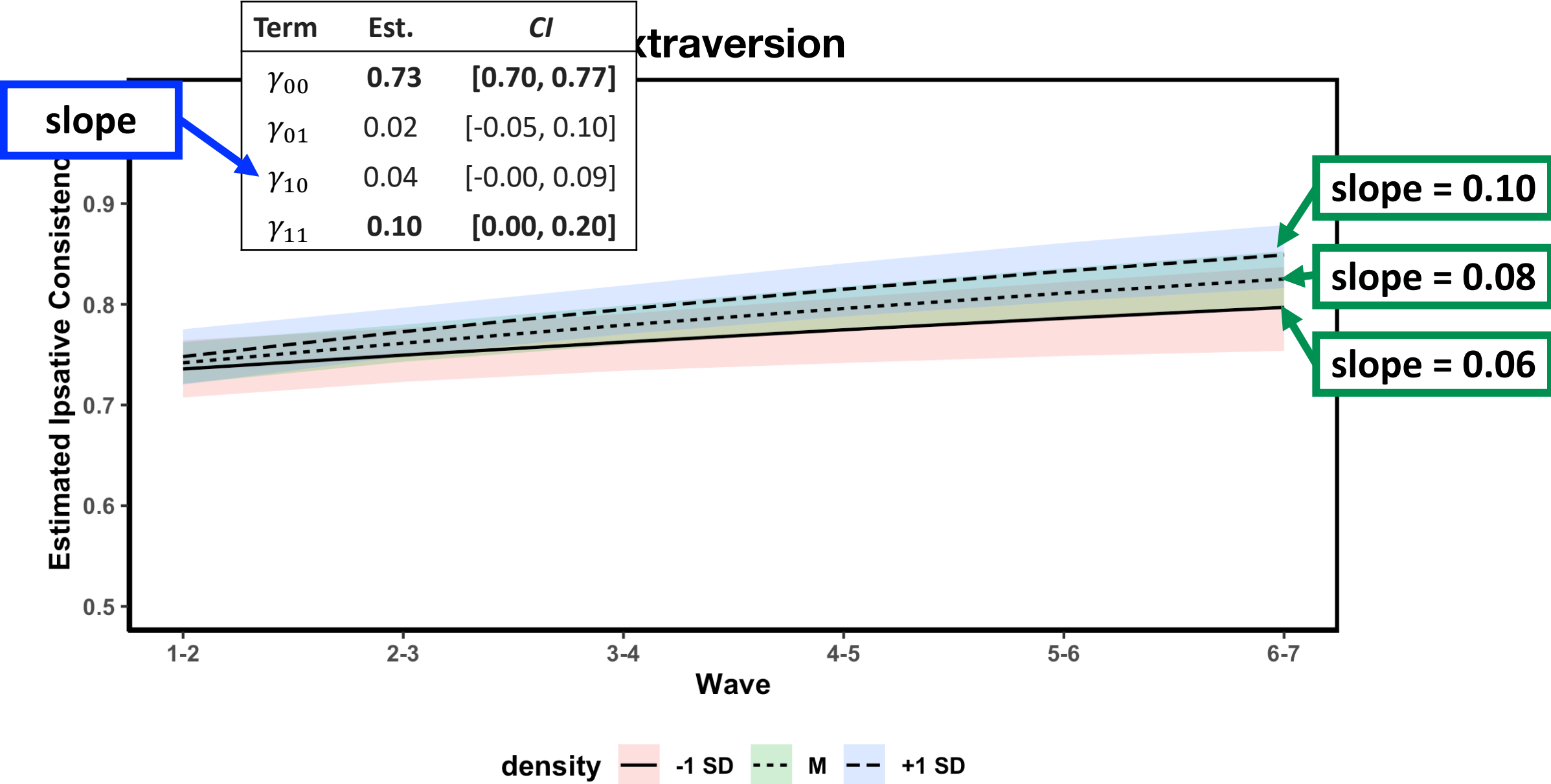
(Extended) Non-linear Asymptotic Multilevel Growth Model

Extraversion



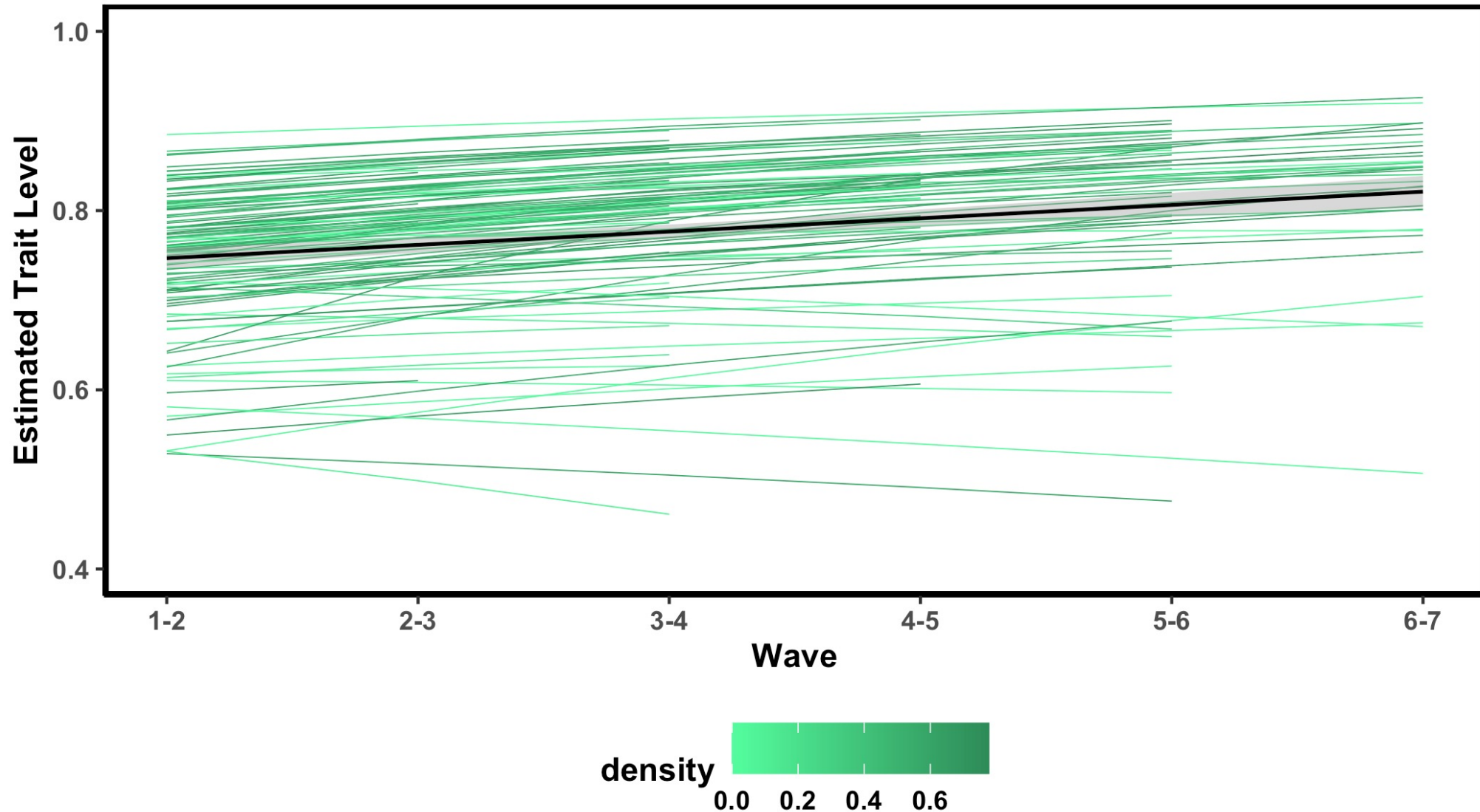
density — -1 SD --- M -- +1 SD

(Extended) Non-linear Asymptotic Multilevel Growth Model



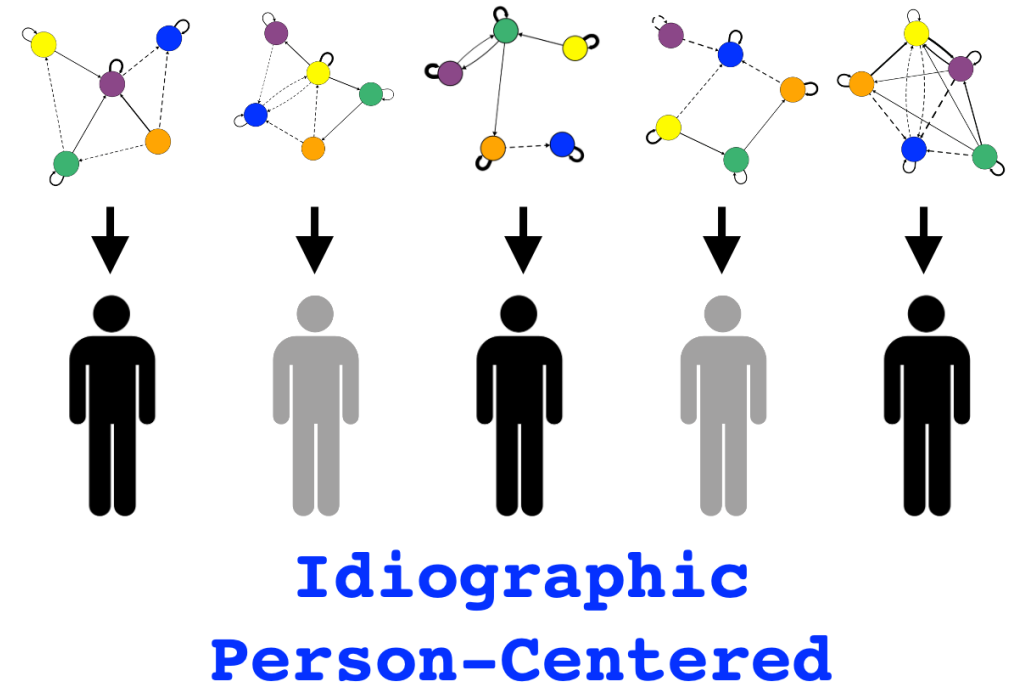
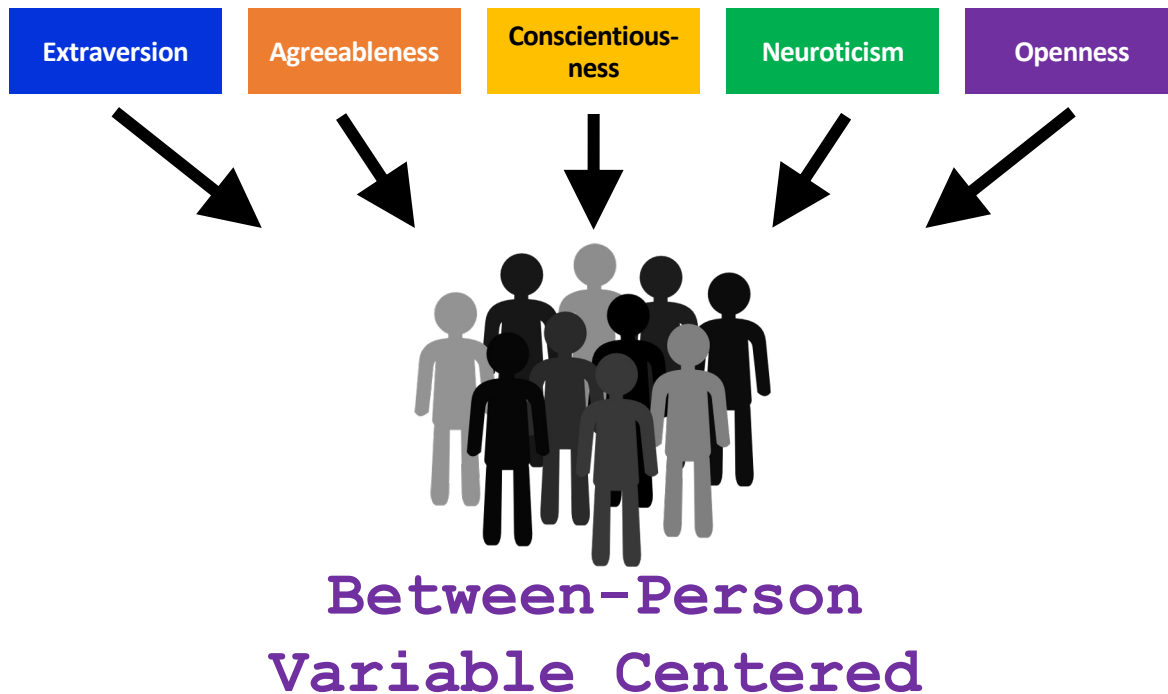
(Extended) Non-linear Asymptotic Multilevel Growth Model

Extraversion



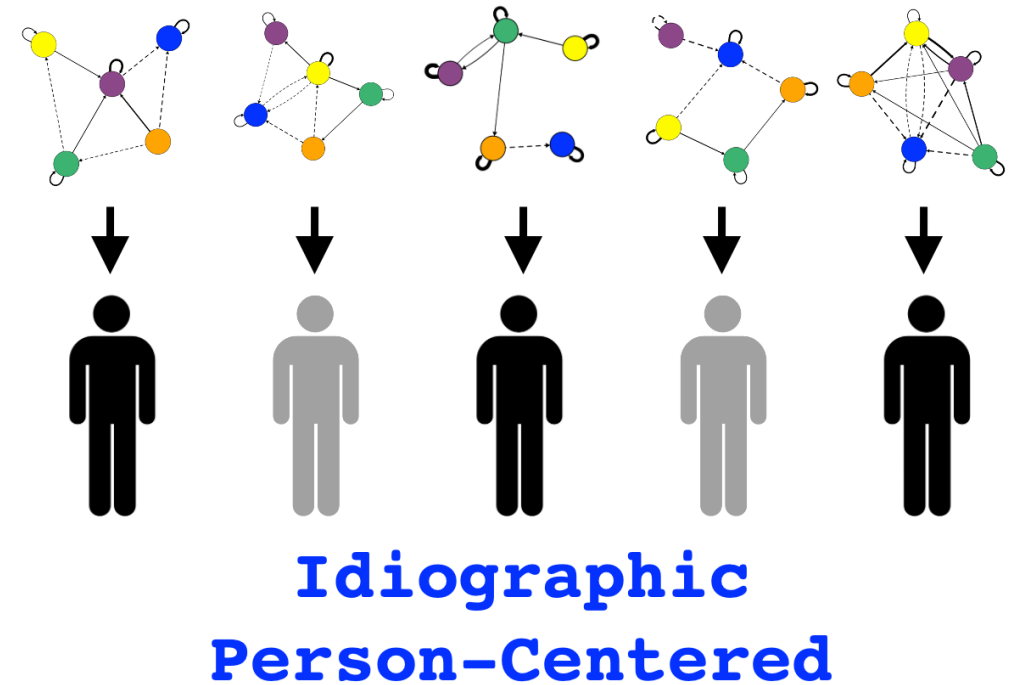
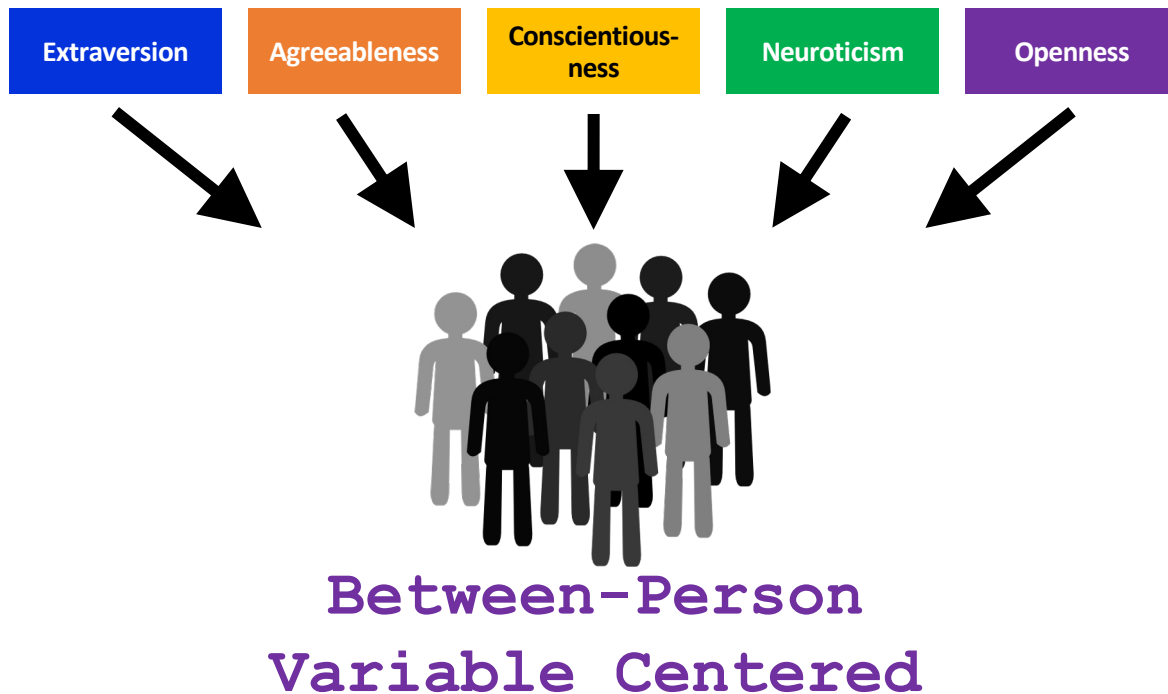
Wrapping Up: Some Goals and Takeaways

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



Wrapping Up: Some Goals and Takeaways

Instead of growing impatient with the single case and hastening on to generalization, why should we not grow impatient with our generalizations and hasten to the internal pattern?" (Allport, 1961, p. 84)



Wrapping Up: Some Goals and Takeaways

Measurement

Ensuring measures are optimized to detect change

Longitudinal Designs

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

Experimental Designs

Tailored interventions

Qualitative Methods:
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!

Please send comments,
questions, and concerns to:

 `edbeck@ucdavis.edu`

 `@EmorieBeck`

Open data, materials,
results, and slides:

`https://github.com/emoriebeck/linking-change`