



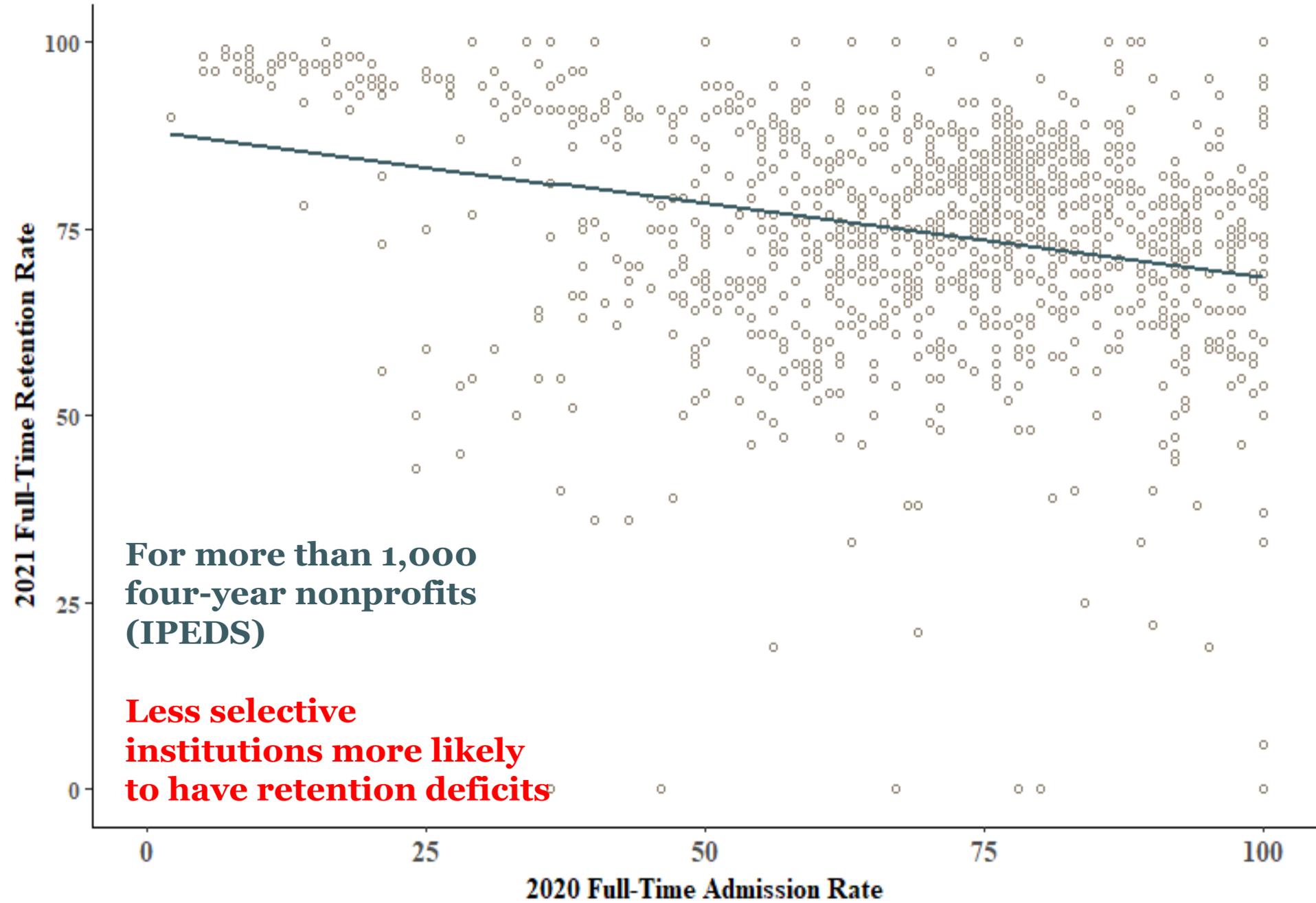
Data-Driven Assessments for Admissions, Goal-Setting, and Retention

CIC Presidents Institute

January 6, 2023

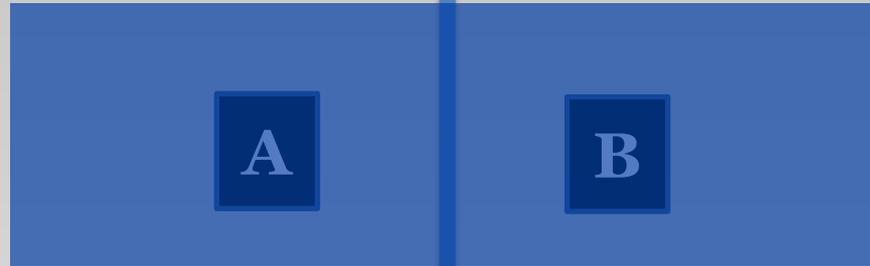
Research Round Robin

Relationship between Admission Rate and Retention Rate



High Cognitive Ability

Standardized tests for admissions focus on identifying these students



Low
Non-Cognitive
Attributes

High
Non-Cognitive
Attributes

A

B

C

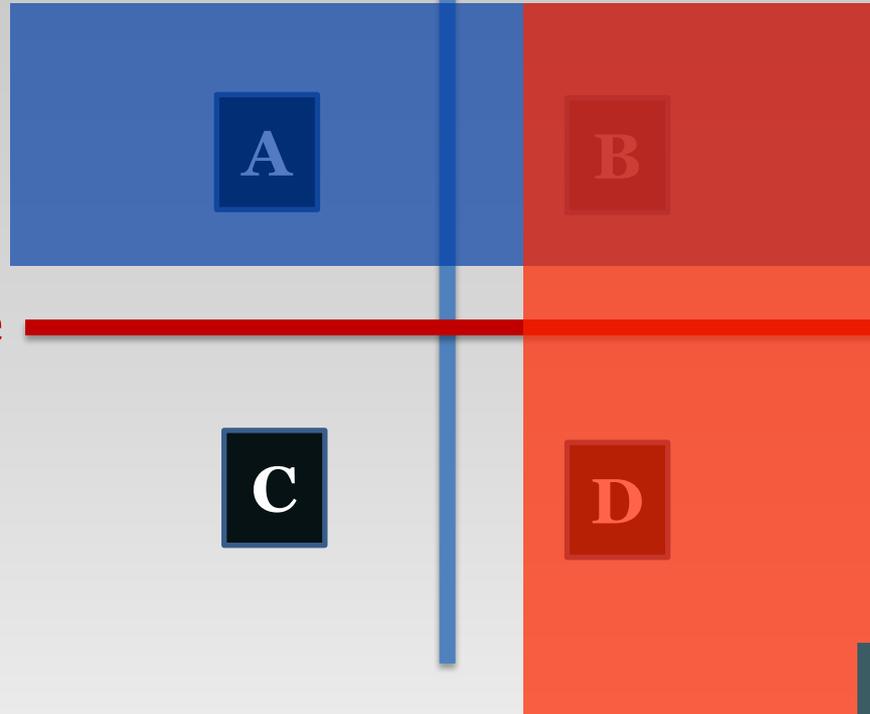
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Low Cognitive Ability

We assume these students will do better in college (or be more prepared!)

High Cognitive Ability

Non-cognitive assessments focus on identifying these students



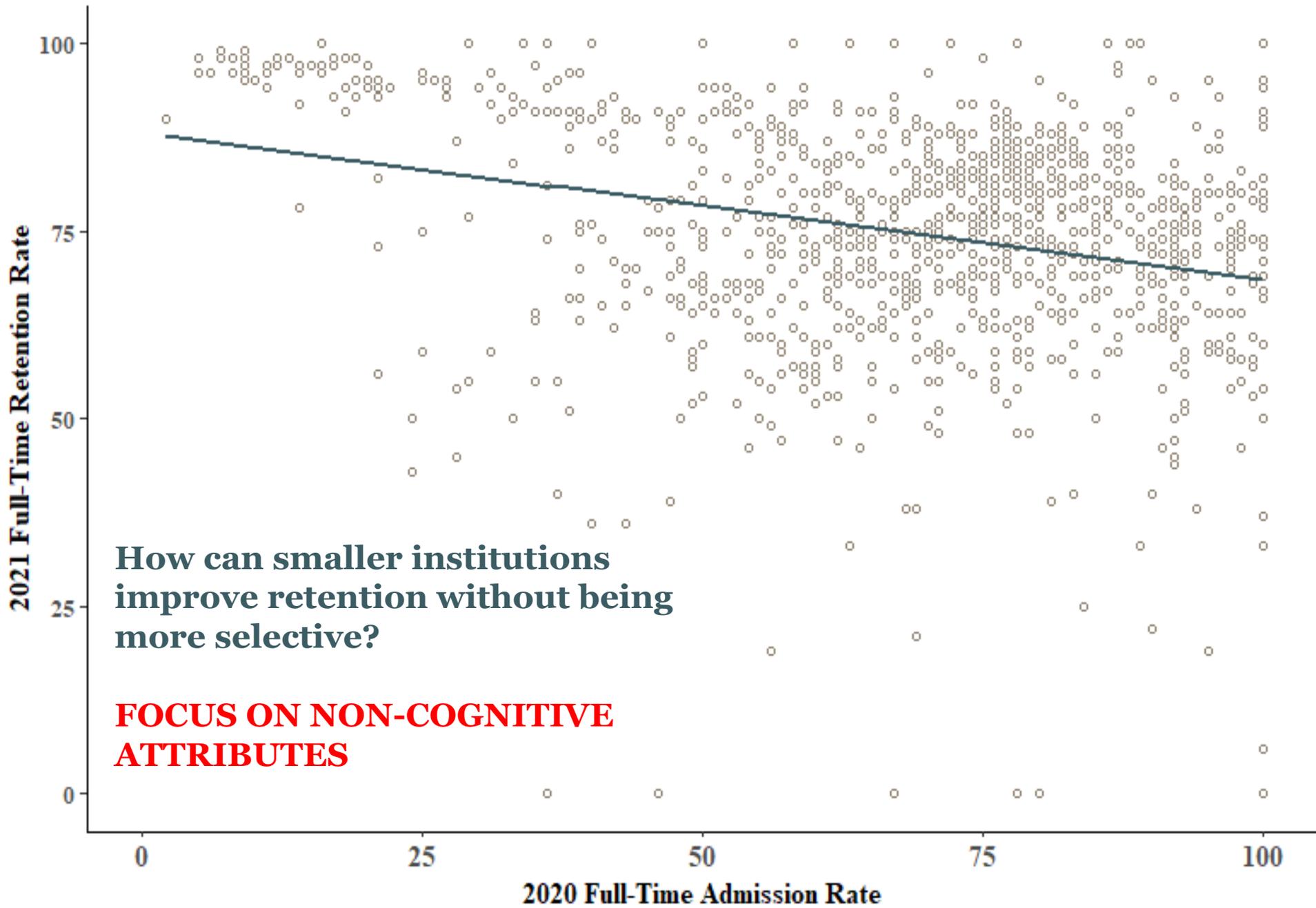
Low Non-Cognitive Attributes

High Non-Cognitive Attributes

Low Cognitive Ability

We may *try* to measure this with admissions essays and extracurricular activities, but those aren't very standardized

Relationship between Admission Rate and Retention Rate



How can smaller institutions improve retention without being more selective?

FOCUS ON NON-COGNITIVE ATTRIBUTES

Non-Cognitive Variables Predict Real Outcomes

Non-Cognitive Variables Predict:

Career Success

Healthy Relationships

Physical Health

Academic Performance and Retention

- Career success & positive career outcomes (Roberts et al., 2003)
- More positive relationship interactions, better relationship quality (Donnellan et al., 2005)
- Better physical health (Cohen & Williamson, 1991; Jerram & Coleman, 2010)
- ***Some non-cognitive variables are associated with better academic performance, even after accounting for intelligence (Gasser et al., 2004; Poropat, 2009)***

What is the Applicant Success Assessment (ASA)?

- Assessment tool
 - Applied people analytics and psychological science
 - 55 questions, web-based
 - Tailored report for each student
 - 7 dimensions + Student Success
- Identifies risk factors for non-persistence
 - Based on non-cognitive factors (unlike standardized tests)
 - Useful for *mitigating risks* to improve retention
- Predicts likelihood of success at *any* higher education institution

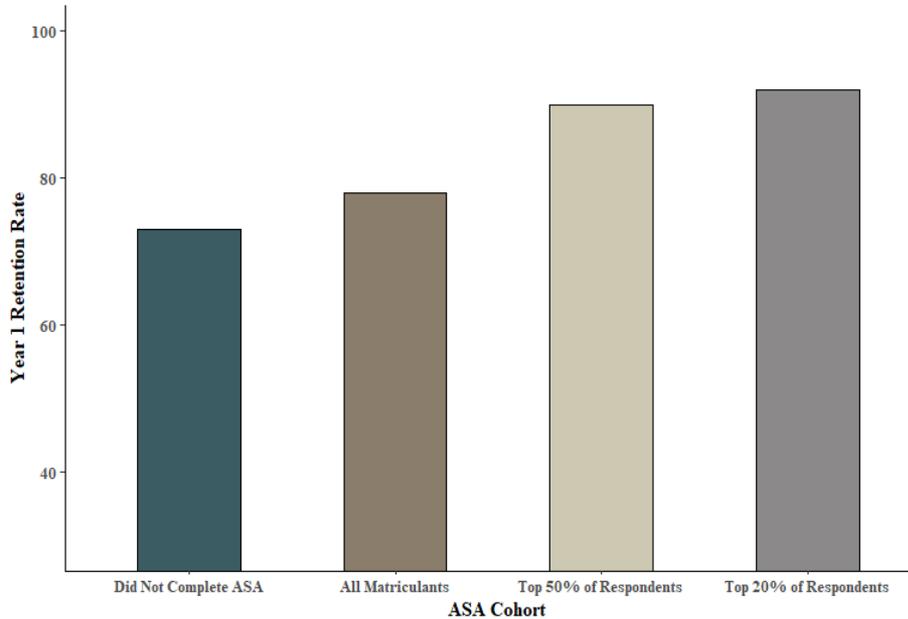
The ASA's Predictive Validity

- Based on two institutions in the northeast (both small, nonprofits)
- Completion of the ASA predicts retention
- The ASA “Student Success Score” predicts GPA
- Including the ASA in statistical modeling improves prediction (beyond cognitive tests)

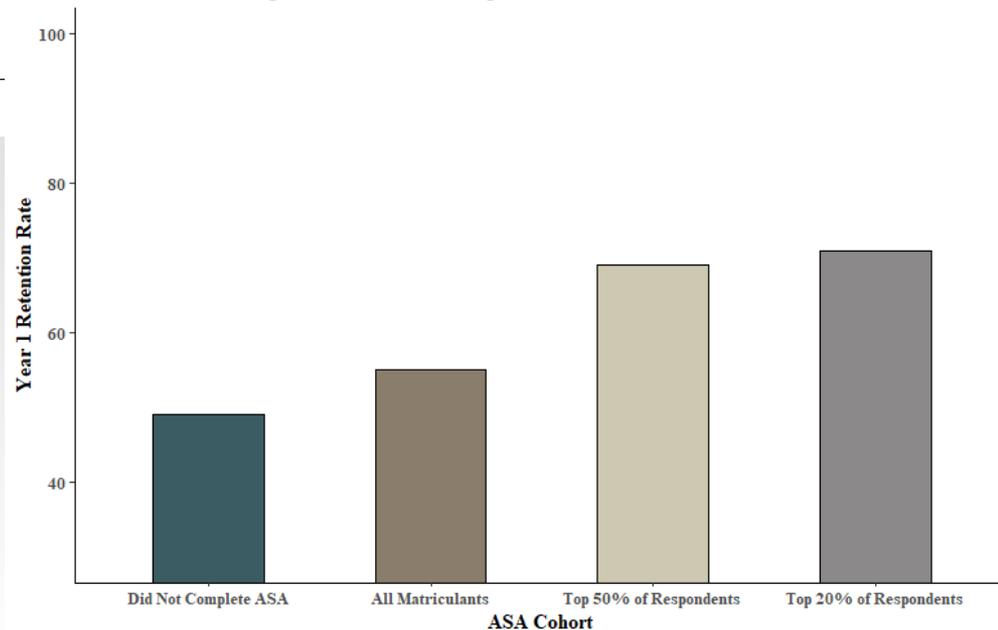
The ASA's Predictive Validity

At both institutions, retention was highest for students with a “success score” in the top 20%.

Relationship between ASA Completion and Retention Rate - Beta Client A



Relationship between ASA Completion and Retention Rate - Beta Client B

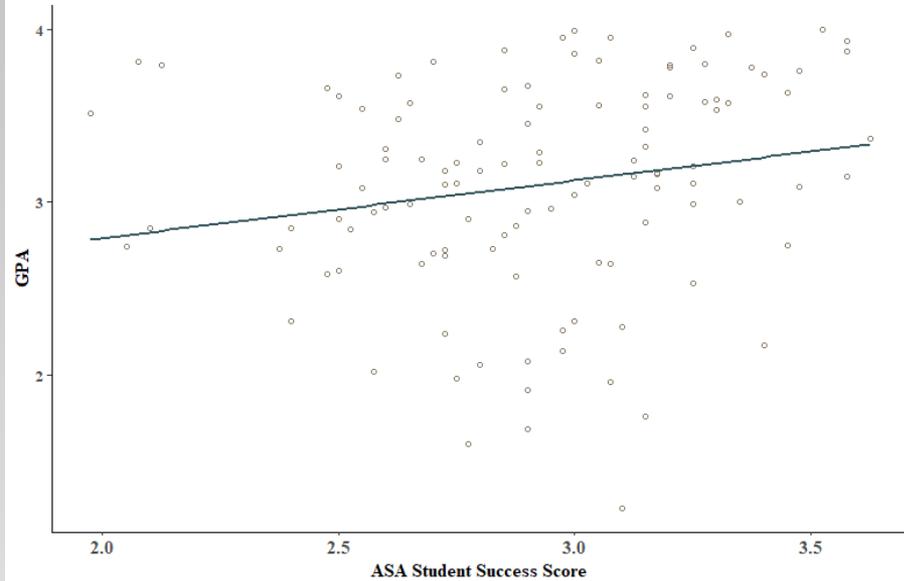


At both institutions, retention was lowest for students who didn't take the ASA when invited

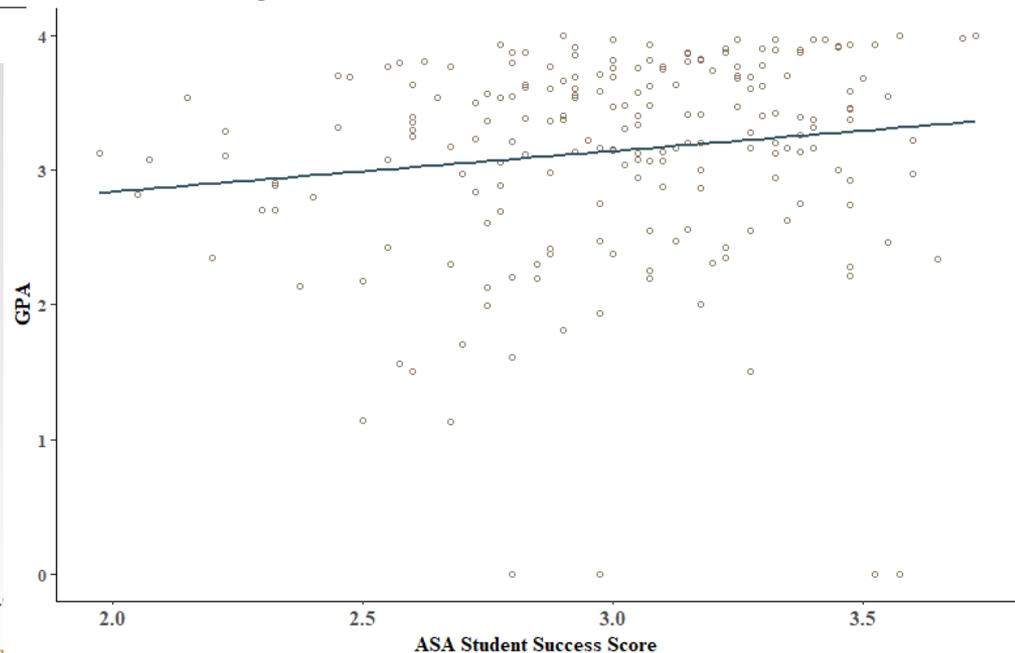
The ASA's Predictive Validity

At both institutions, there's a positive correlation between ASA Student Success and GPA.

Relationship between ASA Student Success Score and GPA - Beta Client A

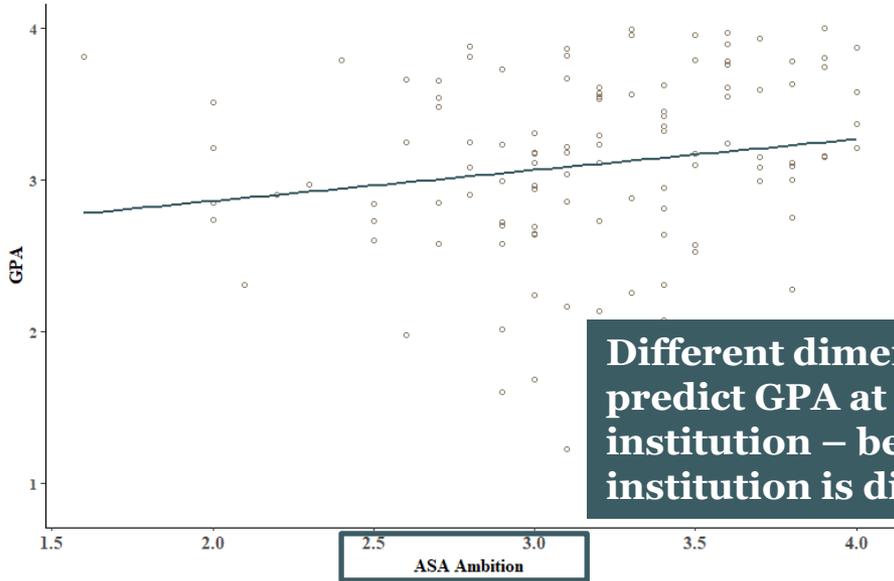


Relationship between ASA Student Success Score and GPA - Beta Client B

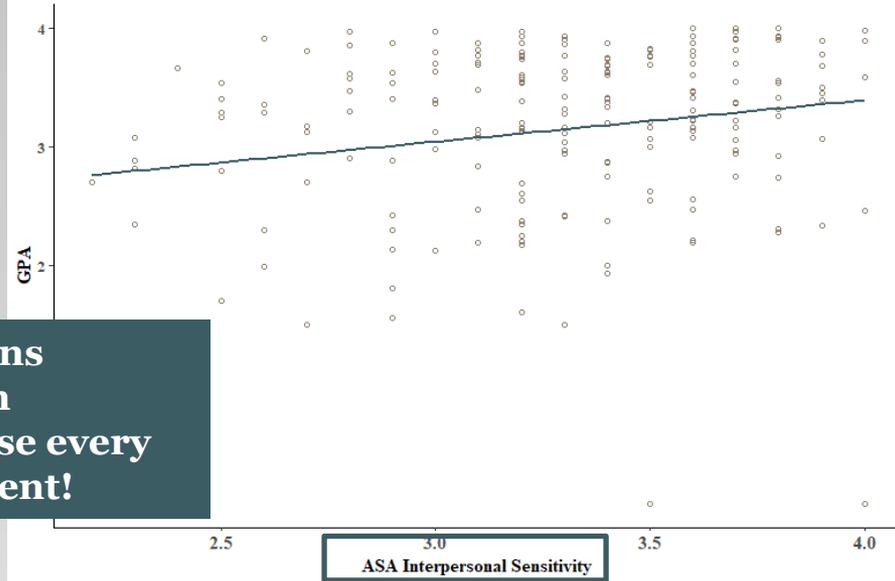


The ASA's Predictive Validity

Relationship between ASA Ambition and GPA - Beta Client A

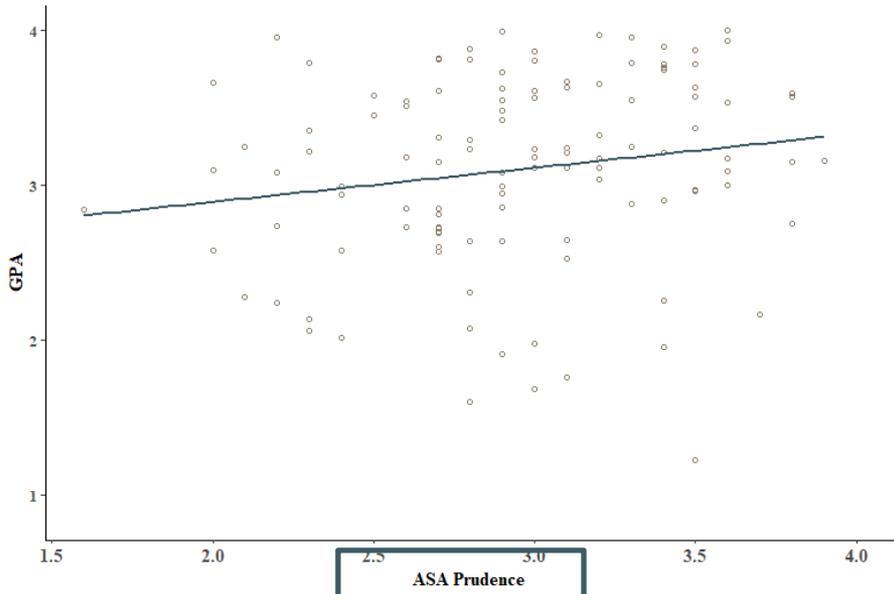


Relationship between ASA Interpersonal Sensitivity and GPA - Beta Client B

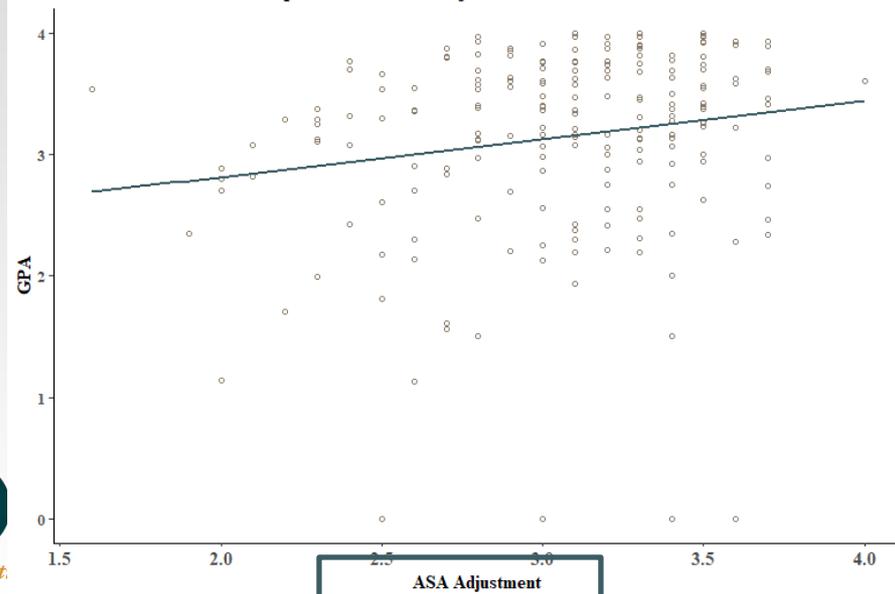


Different dimensions predict GPA at each institution – because every institution is different!

Relationship between ASA Prudence and GPA - Beta Client A



Relationship between ASA Adjustment and GPA - Beta Client B



A Model for Using the **ASA**



During First Year

Stevens Strategy consultants can train your advisors on how to use the ASA with students

Learn More About the ASA



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<https://www.stevensstrategy.com/consultants/rachel-pauletti/>



Curious about the ASA? Scan this code to take the ASA and get your tailored report.

Rachel Pauletti, Ph.D.
Director of Consulting for Stevens *Strategy*