# Addressing the Building Evidence of Effectiveness McNair Competitive Priority 

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## A Short History of Evaluation of TRIO Programs

-Competitive Priorities
-USED SSS Evaluation (1991) and UB Evaluation (mid-90s/2006)
-Potential USED McNair Evaluation (2007)
Overview U of M McNair Program Model (1991-Present)
-Intensive academic year and summer components
-Mentors, program partners, networking
-Program and cohort identity
"This Sounds Good, Does it Work?"
-Description of Propensity Score Matching
-Methodology
-Preliminary Results
What we are learning and future direction -Reconciling 20 years of data (USED/Institution/Natl. Clearinghouse)
-Using this evaluation

Discussion

## Propensity Analysis

- Used to create comparison group.
- Best with very large \# of potential comparison students.
- We had 112,187 U of M students from 2000 on.
- Logistic regression comparing McNair students to everyone on seven attributes.
- Does not do exact match.
- Computes probability of any student being part of McNair group.
- Created comparison group matching on this probability.


## Comparison Attributes

- low income (Y/N)
- first generation (Y/N)
- race
- sex
- age when first enrolled
- cum GPA
- STEM degree (Y/N)
- ACT score (when available)


## And then...

- Ensured no sig differences on each attribute
- Comparison group 3x size of McNair group.
- Took these 1412 names to National Student Clearinghouse to determine subsequent academic achievement.


## When Propensity Matching is Impractical

- Compare McNair students with all students at your institution.
- Use vars such as GPA, Whiteness, Poverty, etc.
- Likely create conservative comparison.
- Use National Student Clearinghouse to see subsequent academic achievement.
- Compare them.
- If you need help, call me.

Degree Attained and type of students: Entire Sample
Note. ${ }^{* * *}=\quad p \leq 0.001$


Degree Attained and type of students: Students Not Currently Enrolled
Note. ${ }^{* * *}=p \leq 0.001$


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