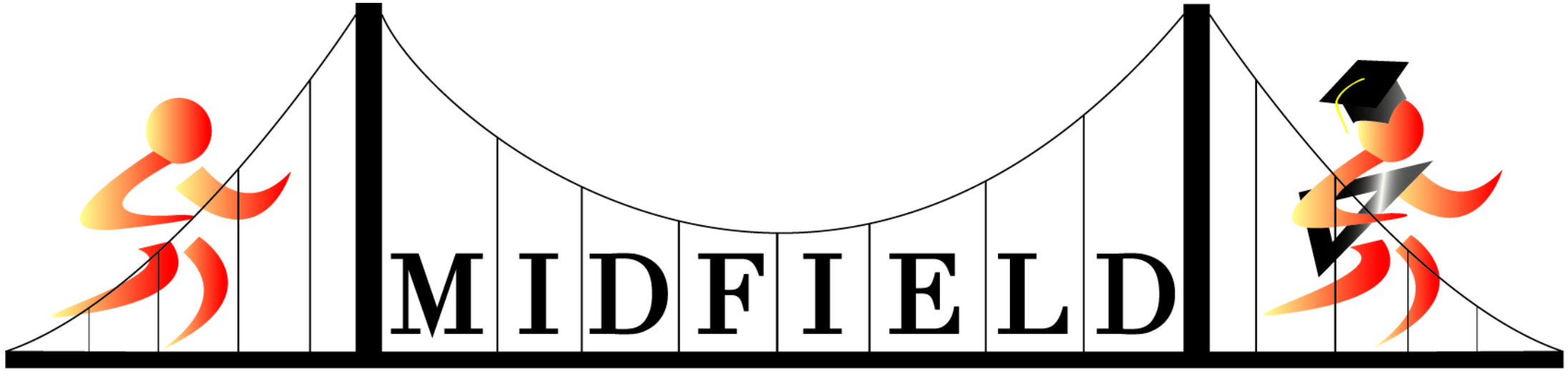
# Introduction to MIDFIELD




Multiple-Institution Database For Investigating Engineering Longitudinal Development

**M**ultiple
**I** nstitution
**D** atabase
**F** or
**I** nvestigating
**E** ngineering
**L** ongitudinal
**D** evelopment

Whole-population data for institutions and time period

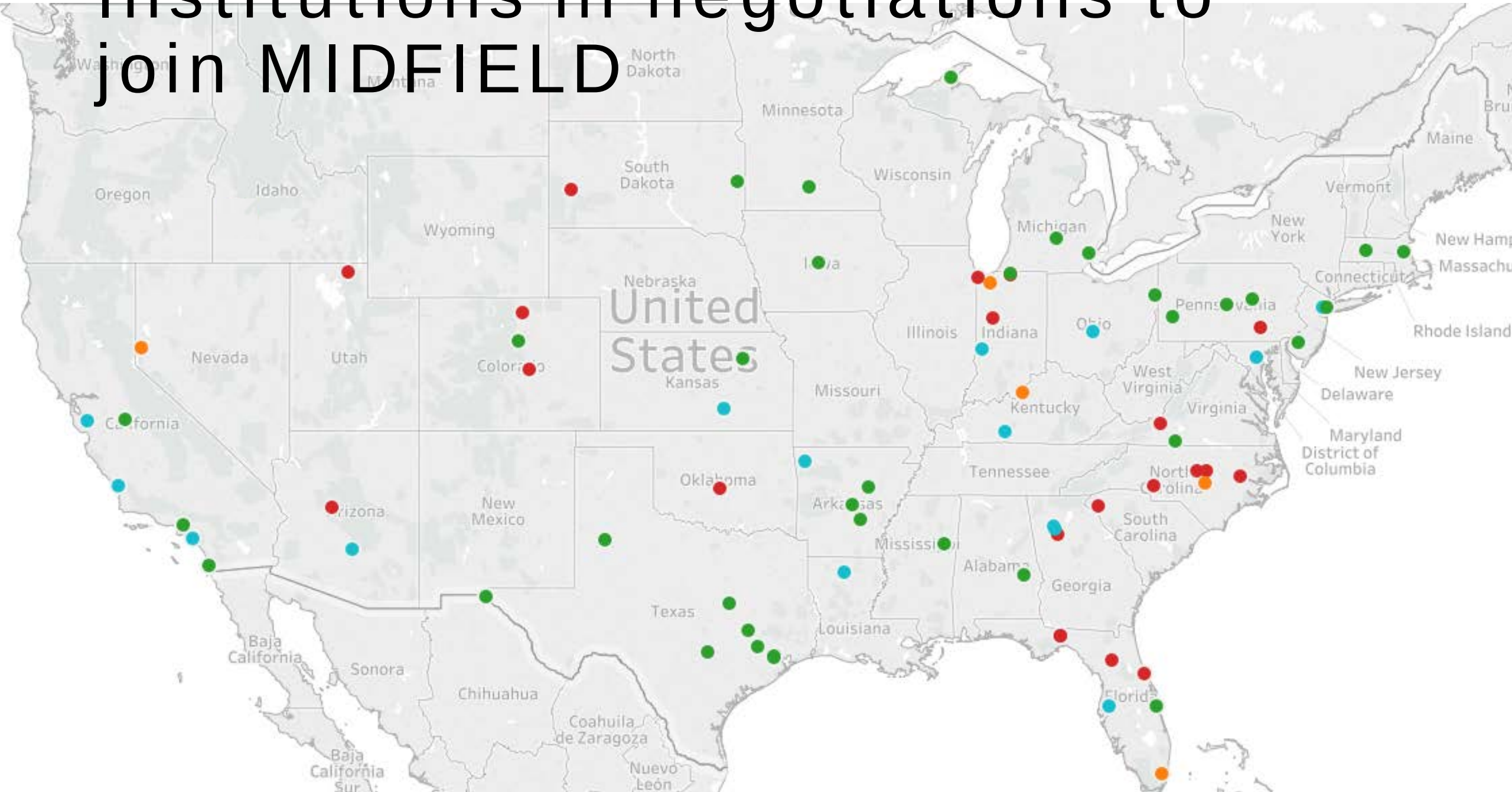
Current dataset

- 22 institutions
- 1.5 million unique students in all departments
- 250,000 unique engineering students, approximately 1/7 US engineering enrollment

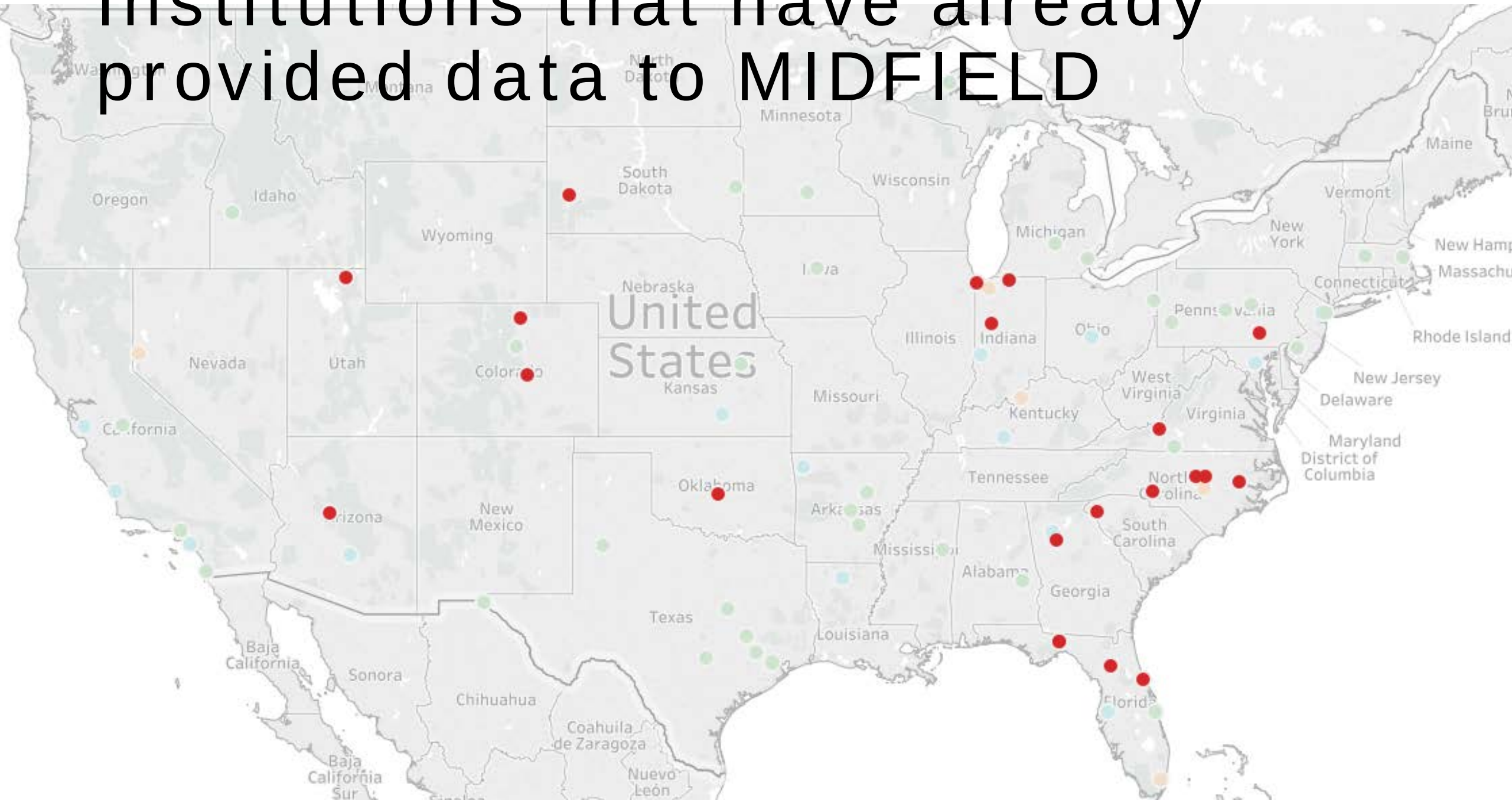
5-year expansion plan in progress

- Total of 100+ diverse institutions
- 1/2 US engineering enrollment

# Institutions in negotiations to join MIDFIELD



# Institutions that have already provided data to MIDFIELD

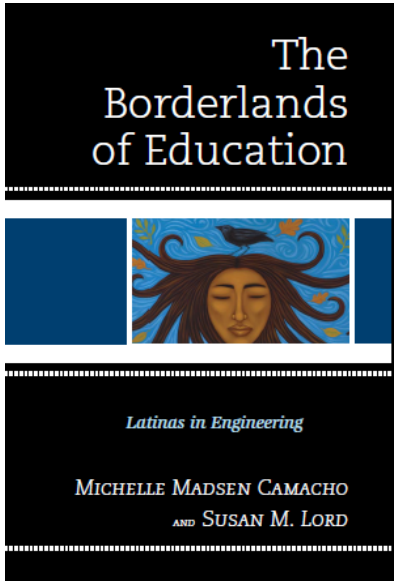


# Different uses of MIDFIELD

- Demographic data:
  - Who enrolls? Where are they coming from?
- Graduation data:
  - Who graduates? How long does it take?
- Term data:
  - When do students leave? How do students move among majors? Why do students change majors and what happens?
- Course data:
  - How do grade distributions vary by section? To what extent do students intentionally co-enroll in classes?

# What have MIDFIELD researchers accomplished?

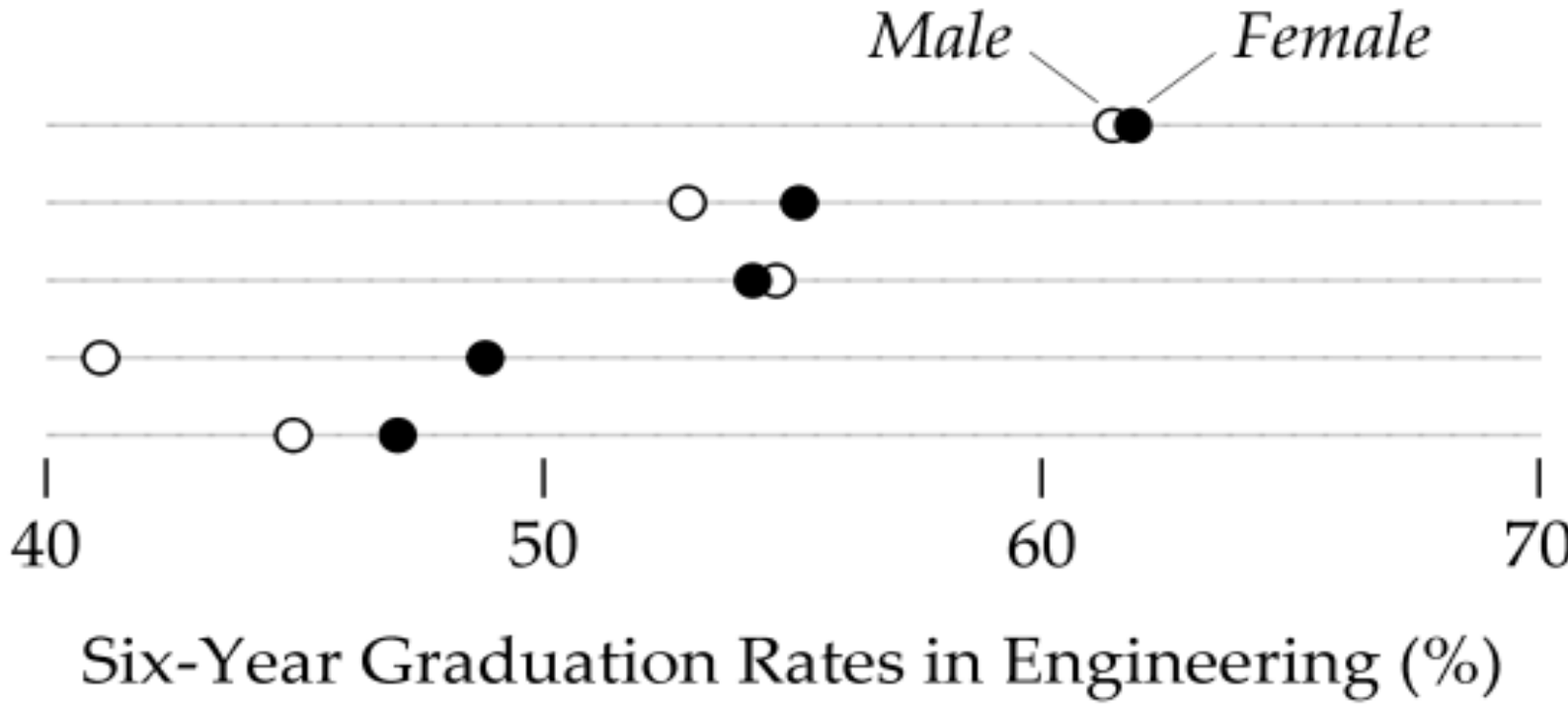
- Many publications in journals and conference proceedings, conference presentations, multiple book chapters, and one entire book.
- 4 journal best paper awards, two conference best paper awards, and other recognitions (e.g. WEPAN, ECEDHA).
- Panel discussions, invited workshops and talks, keynote addresses, publicity in various media outlets.



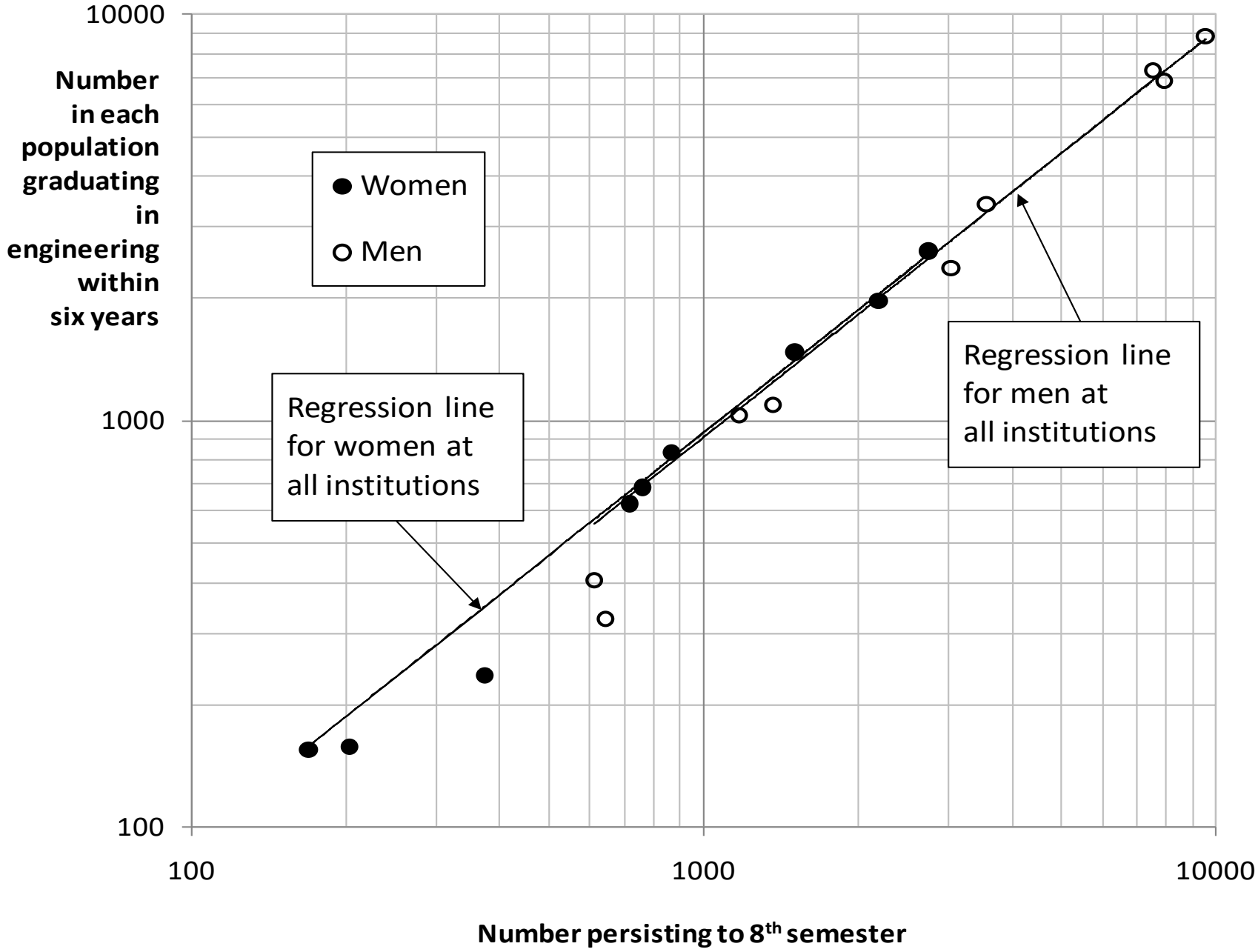
# Women in graduate at the same rates as men.

***All Engineering Matriculants***

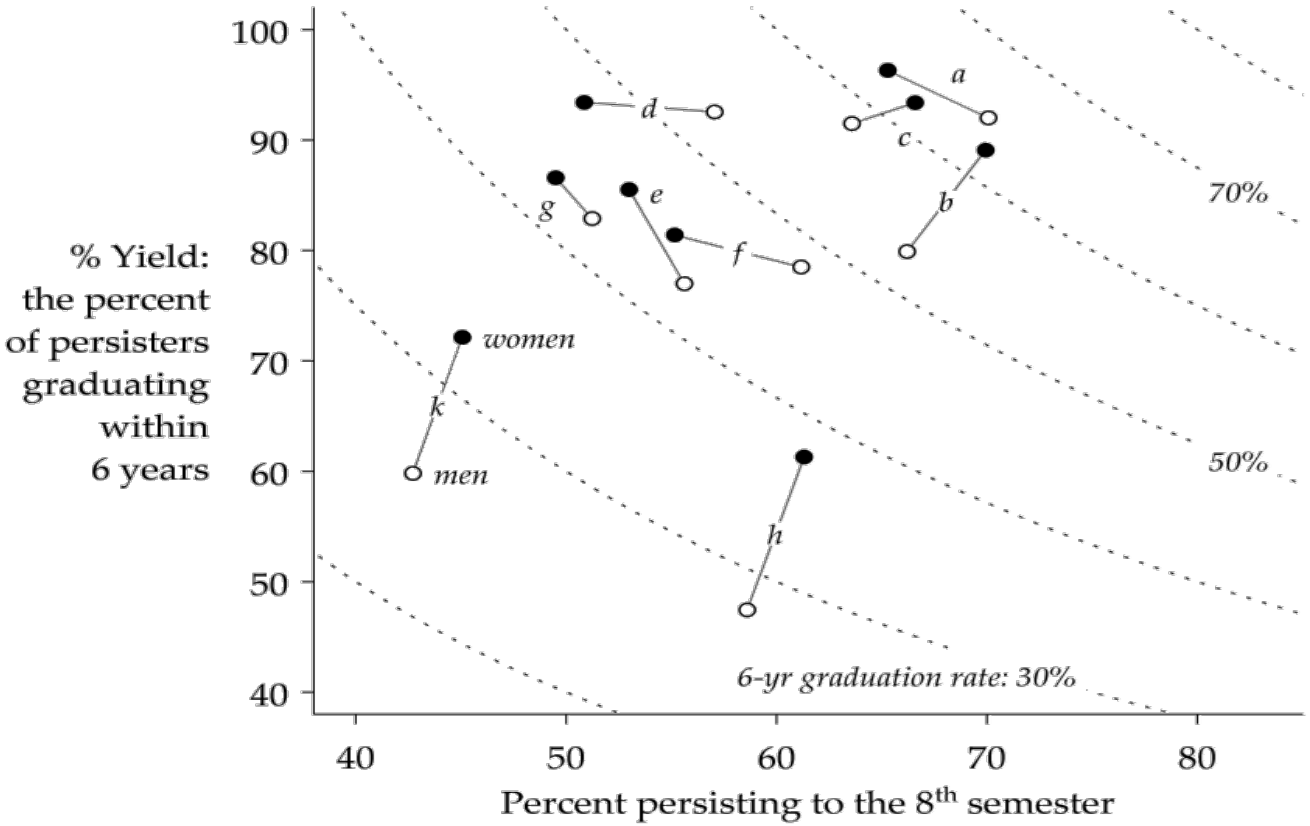
| | $n_F$ | $n_M$ |
|---|---|---|
| Asian | 1001 | 3927 |
| Hispanic | 390 | 1607 |
| White | 9997 | 45291 |
| Black | 3957 | 6624 |
| Native-Am | 68 | 258 |

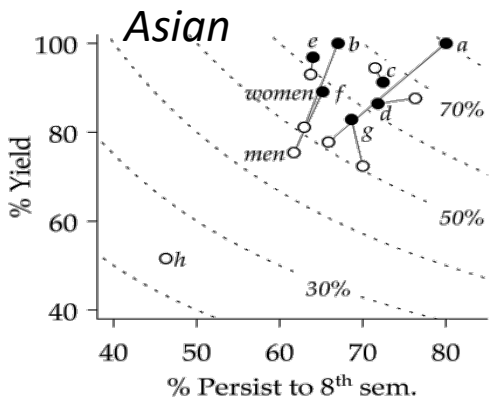


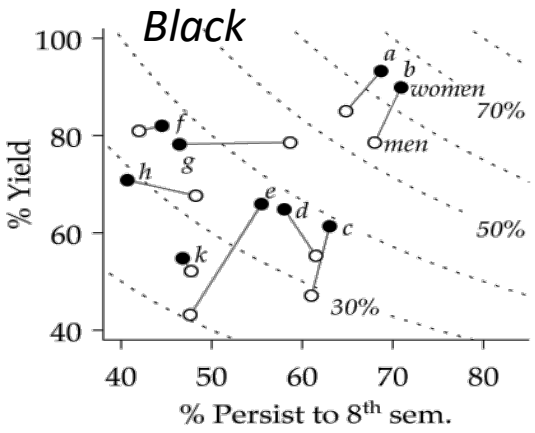
# Eight-semester persistence is a good predictor of six-year graduation… but not for everyone.

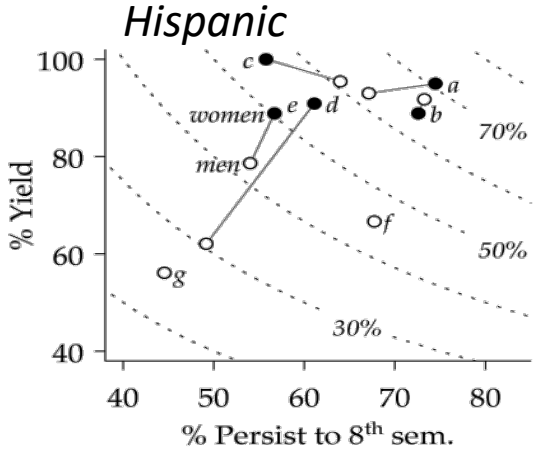


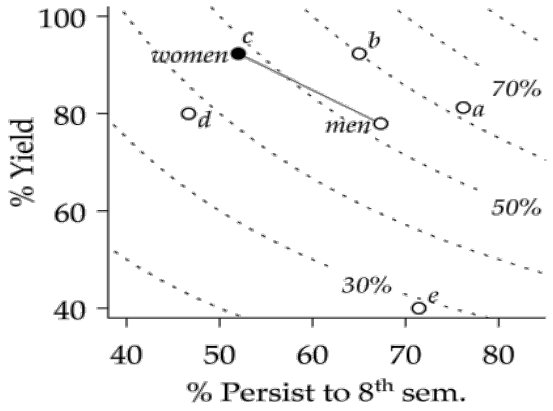
# The aggregate experience doesn't represent the experience of any racial/ethnic group.

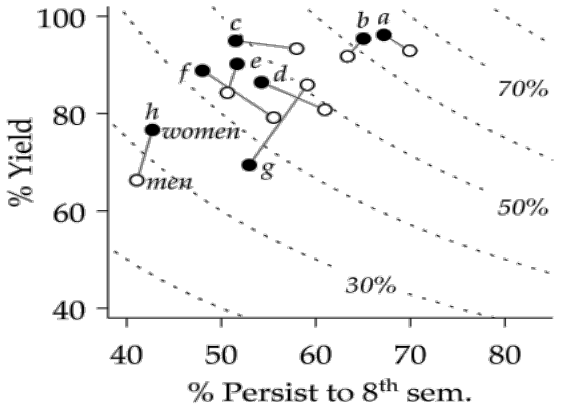


Some disciplines are better than others at graduating students… but some of the students who leave will graduate in other engineering majors.