

Worldwide trends

- Enrollment growth
- Diffusion of Euro-American research university model
- Increased research activity
- Intensified competition (rankings / metrics / markets)
- Accountability to social and economic responsiveness

Experiences within universities & academic departments

- New Public Management / Academic Capitalism
 - Academic managers actively prioritize some activities, redirecting resources to reflect managerial preferences
- Increased pace of work / growing expectations
- Growing precarity and uncertainty in academic careers
 - Difficult job market, jobs available are often contingent (short term contracts dependent on grant income)

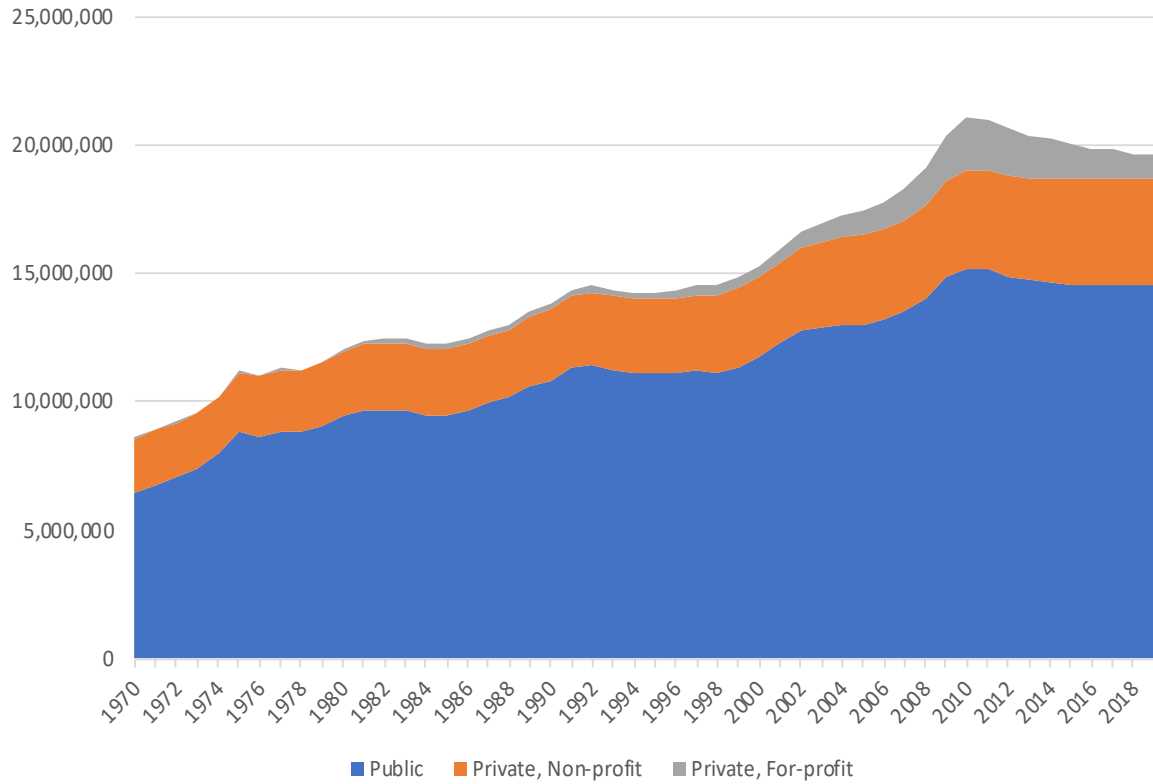
USA

- Highly marketized
- Strong administration, academic capitalism management
- Growing public discontent
 - Highly partisan but broad-based anxiety about costs and employment outcomes
- “new faculty majority”
 - Often cited statistic: 75% of faculty off the tenure track
- Arts, humanities, and some social sciences widely seen as disfavored
- Predictions of widespread program and even intuition collapse

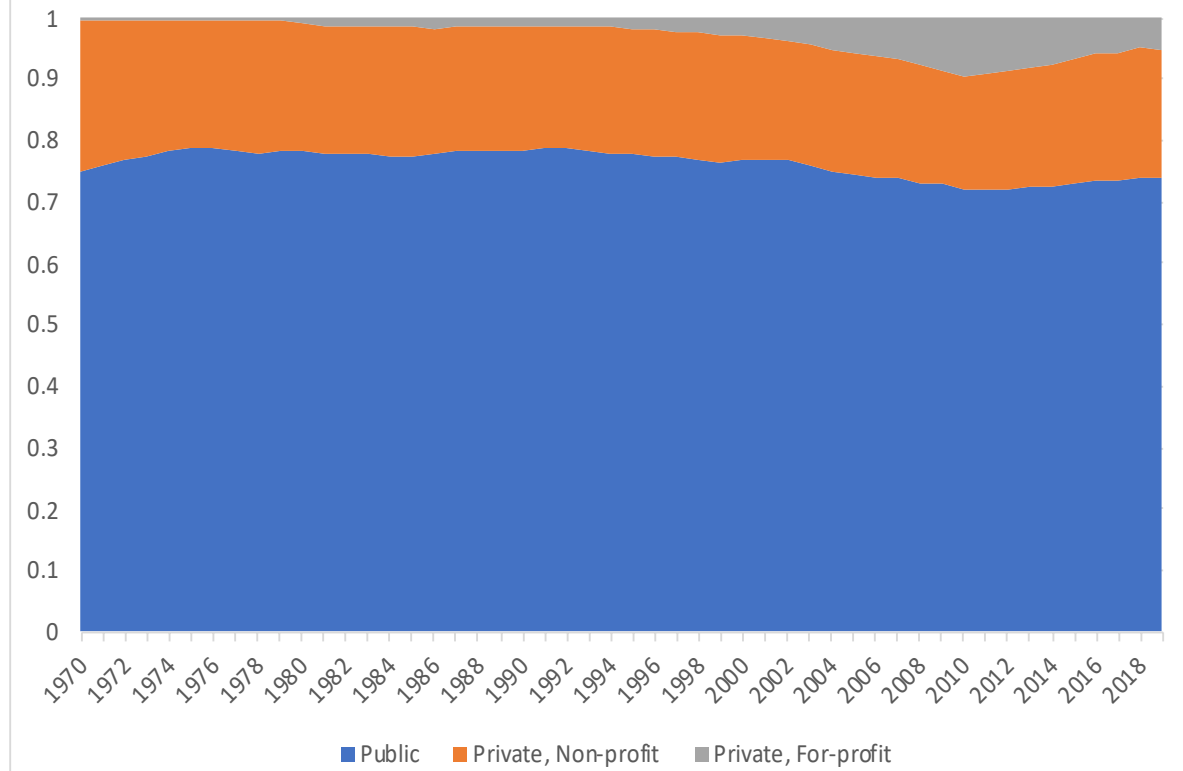
Longview stability

- Recent long-view treatments of higher education seem to contrast the turbine story
 - Expansion and stability
 - 'system' grows but in many regards stays the same
 - Ability to absorb new activities without dispensing with existing ones
 - Faculty market and tenure system sustains strong research system

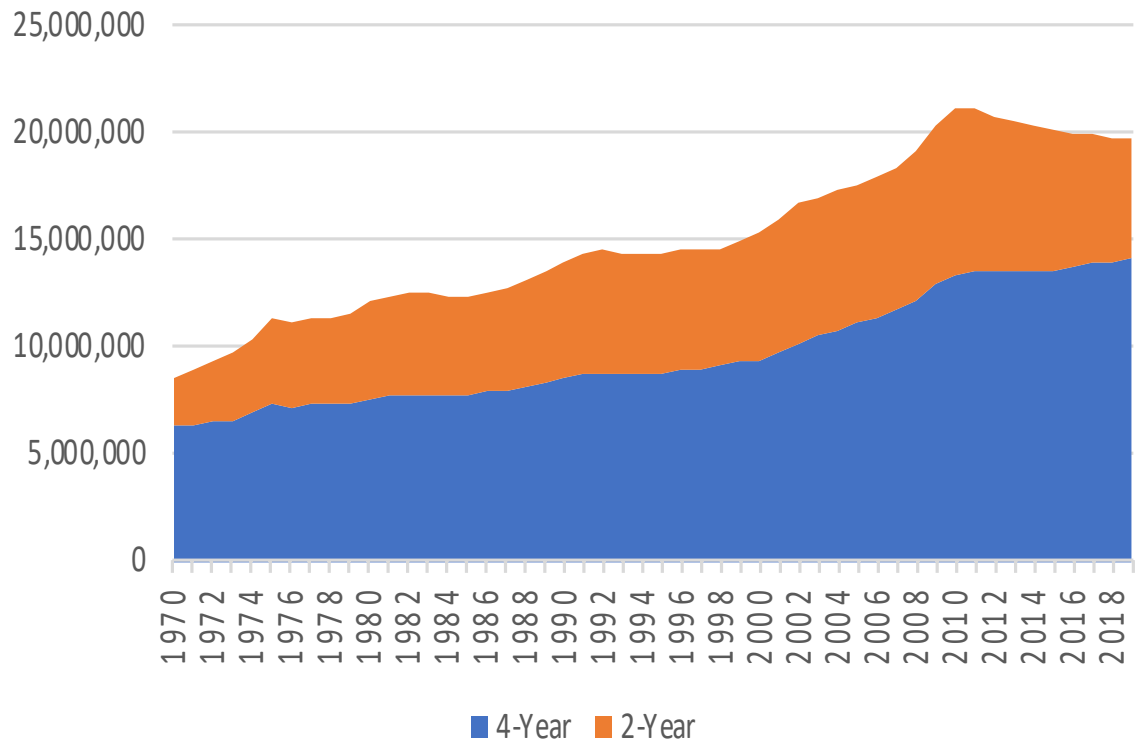
USA Total Enrollment, 1970 - 2019



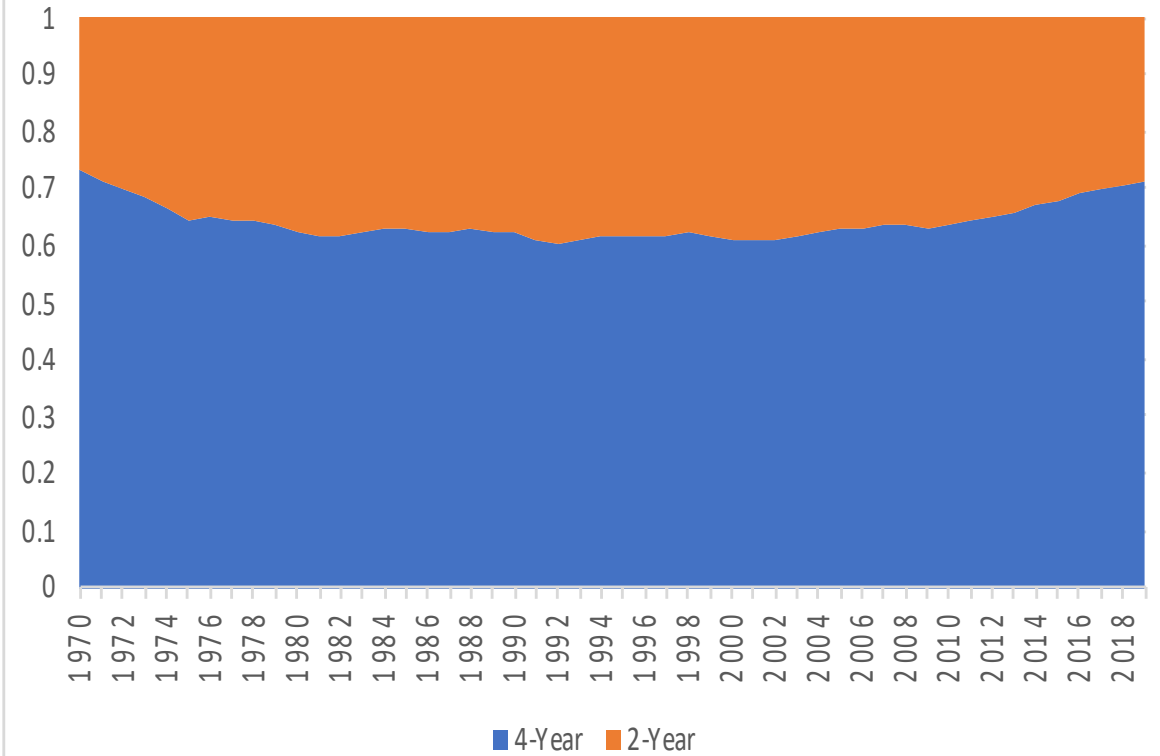
Share of Total Enrollment by Sector in USA, 1970 - 1999



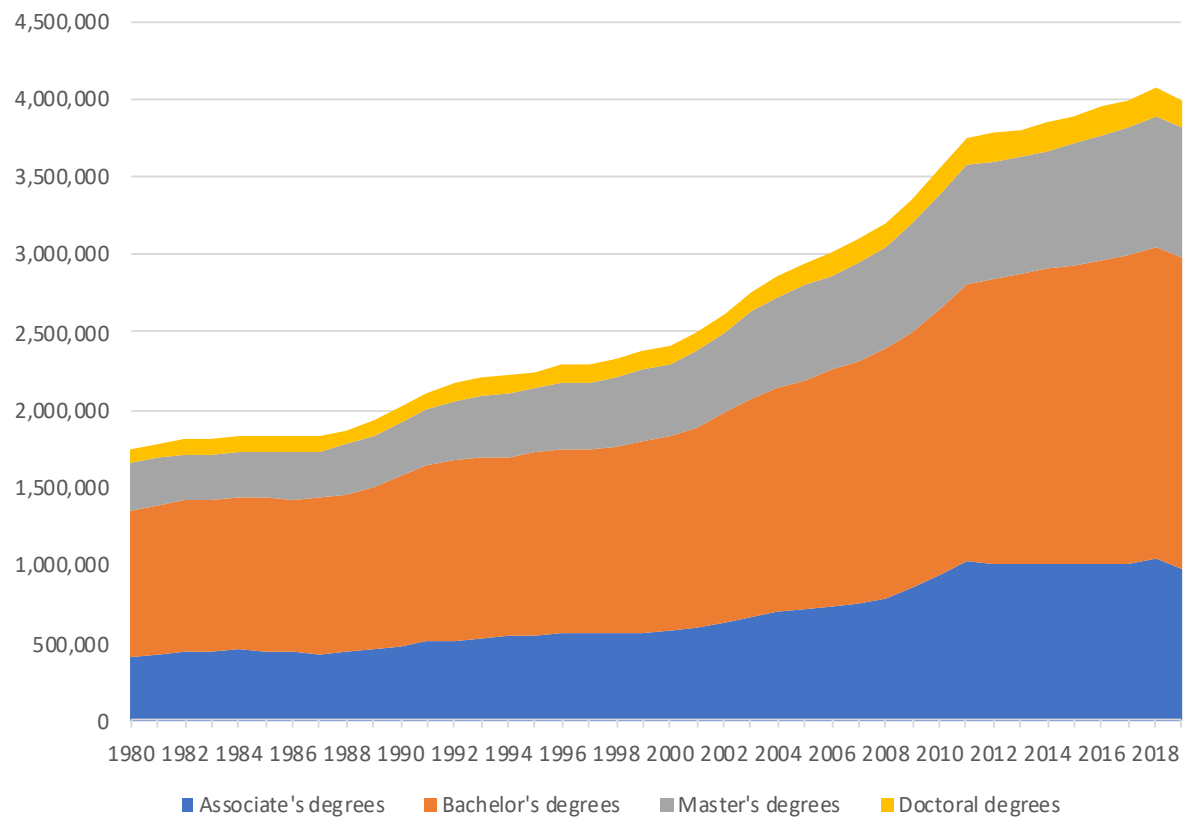
USA Total Enrollment by Level, 1970 - 2019



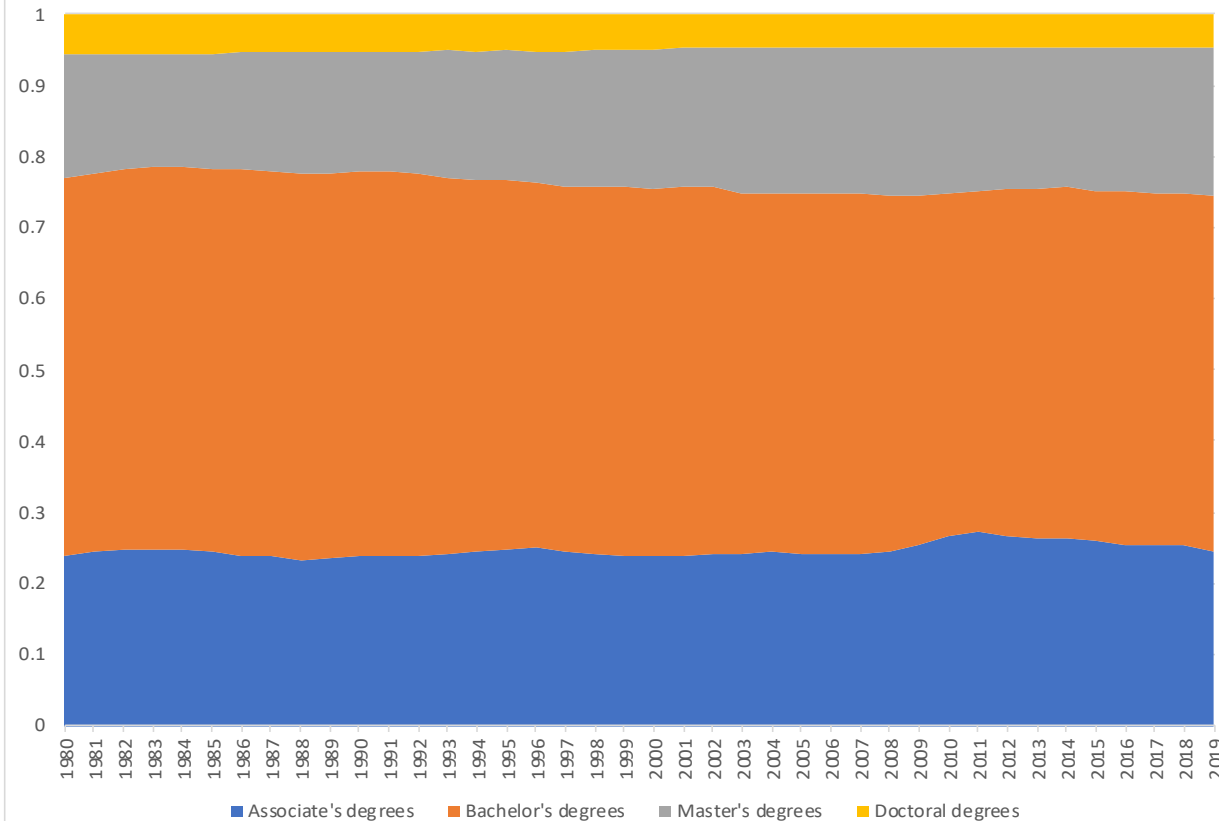
Share of Total Enrollment by Level in USA, 1970 - 2019



Number of Degree Awards by Level in the USA, 1980 - 2019

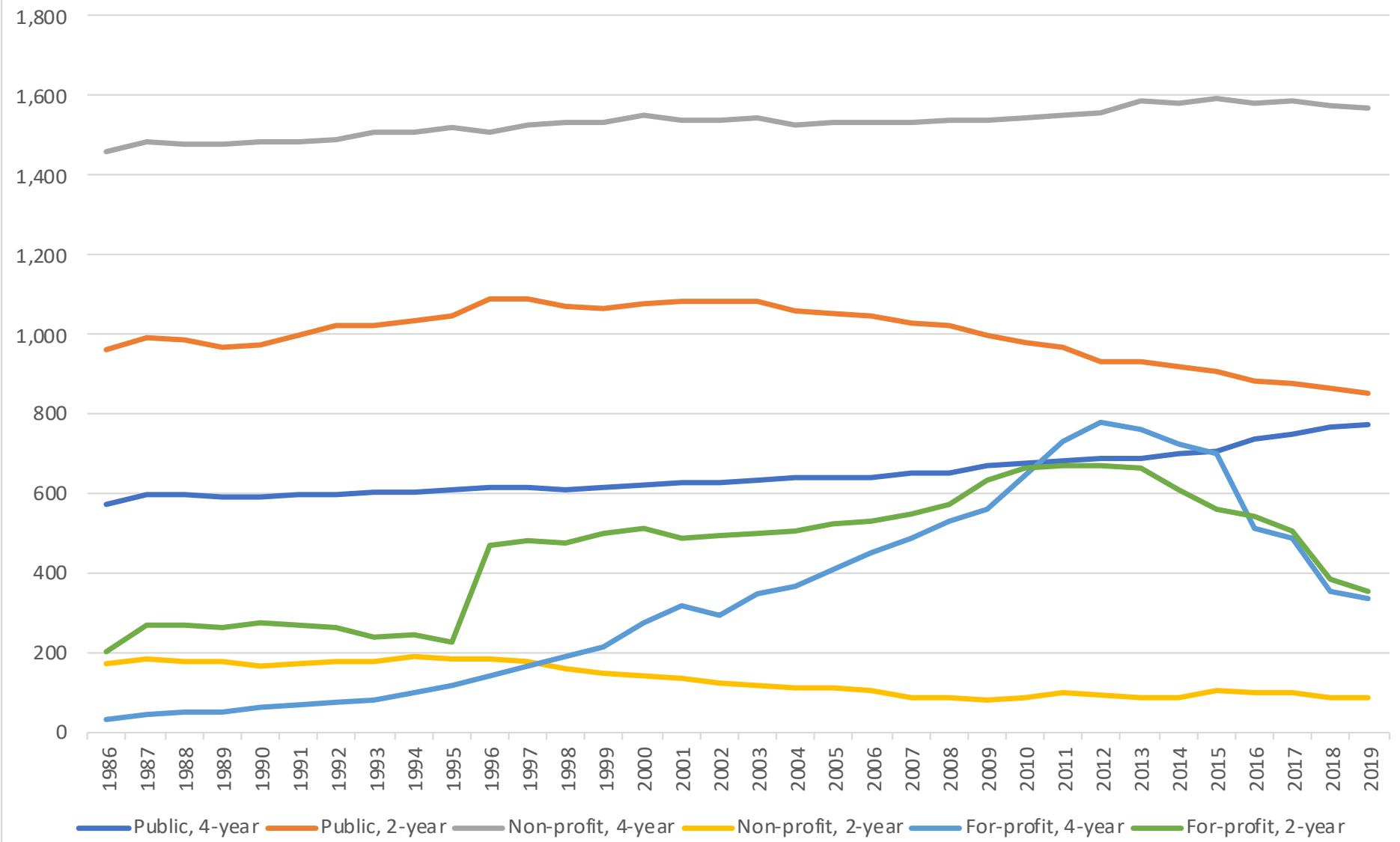


Share of Degree Awards by Level in the USA, 1980 - 2019



Number of institutions by type in the USA, 1986/7 - 2019/20

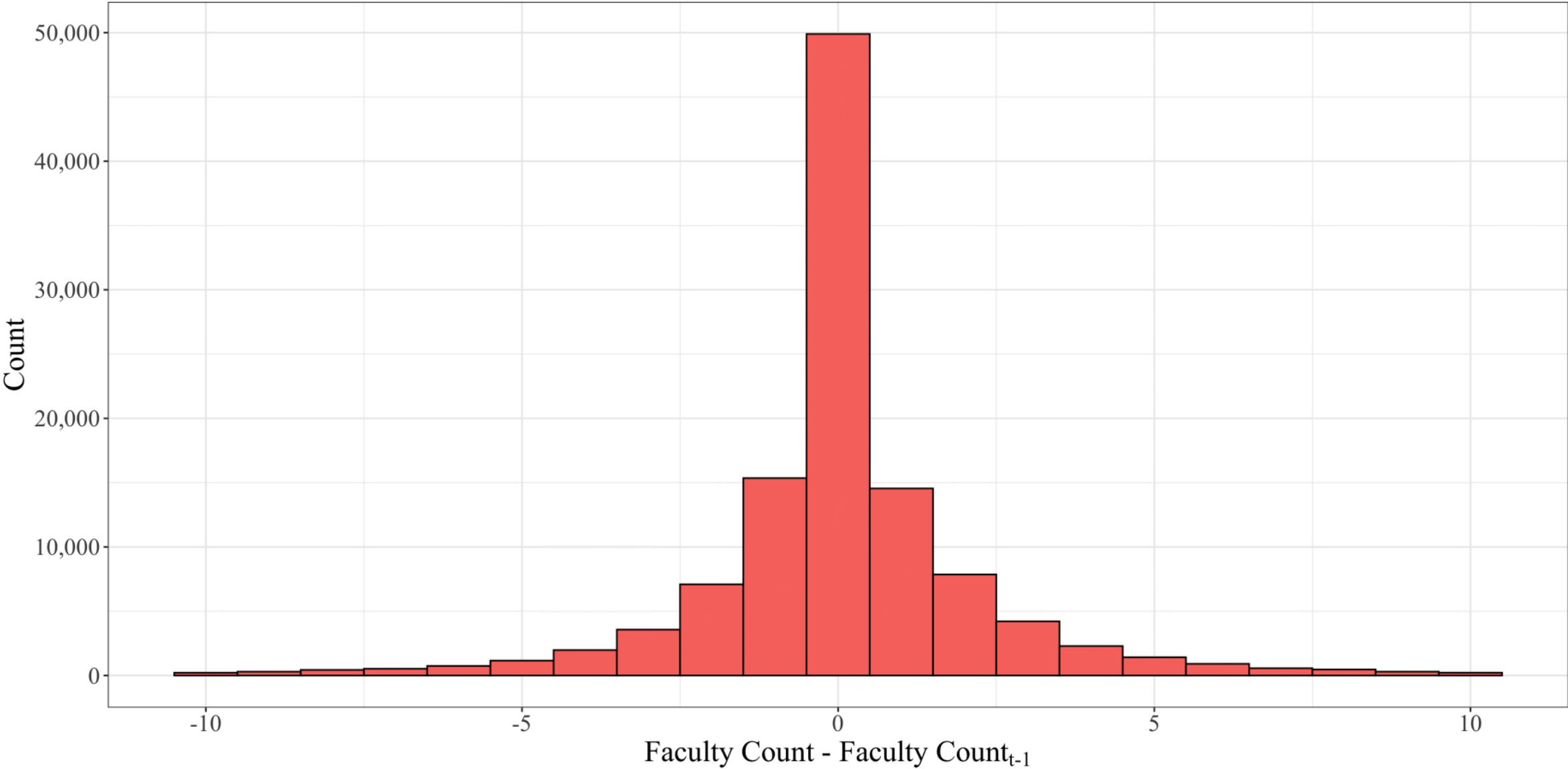
Source: NCES *Digest of Education Statistics*, 2020, Table 317.10



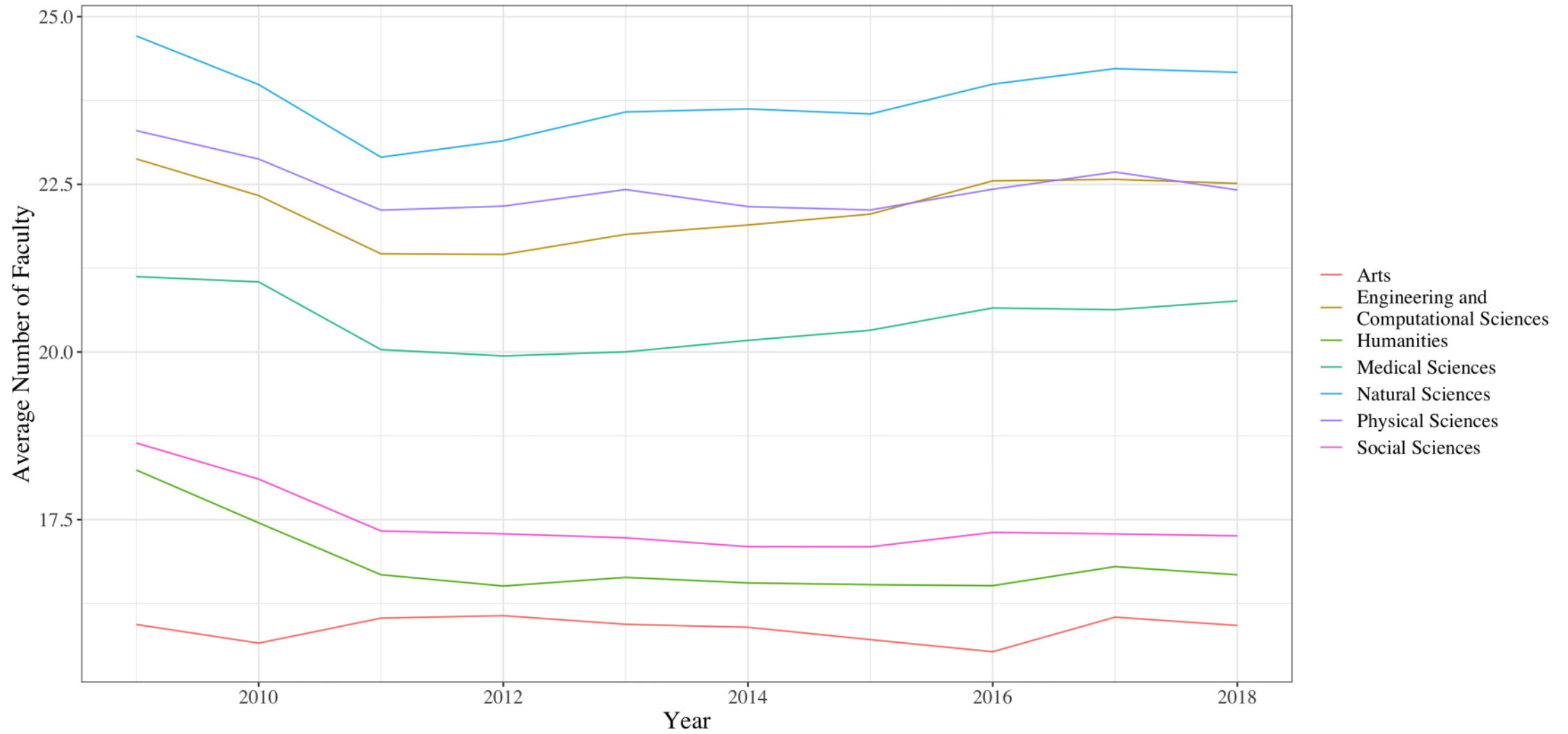
How is this playing out inside US universities?

- Does overall picture of stability and growth translate within departments?
- Examine change in academic departments (Academic Analytics)
 - 30,748 department years in 330 universities
- Evidence of active managerial prioritization?
 - Market logics (shift into grant earning fields)
 - Academic logics (reward publications and citations)
 - Organizational inertia (path dependence)
- Check with federal data: change in disciplinary composition academic staff
 - NCES, NSF, BLS

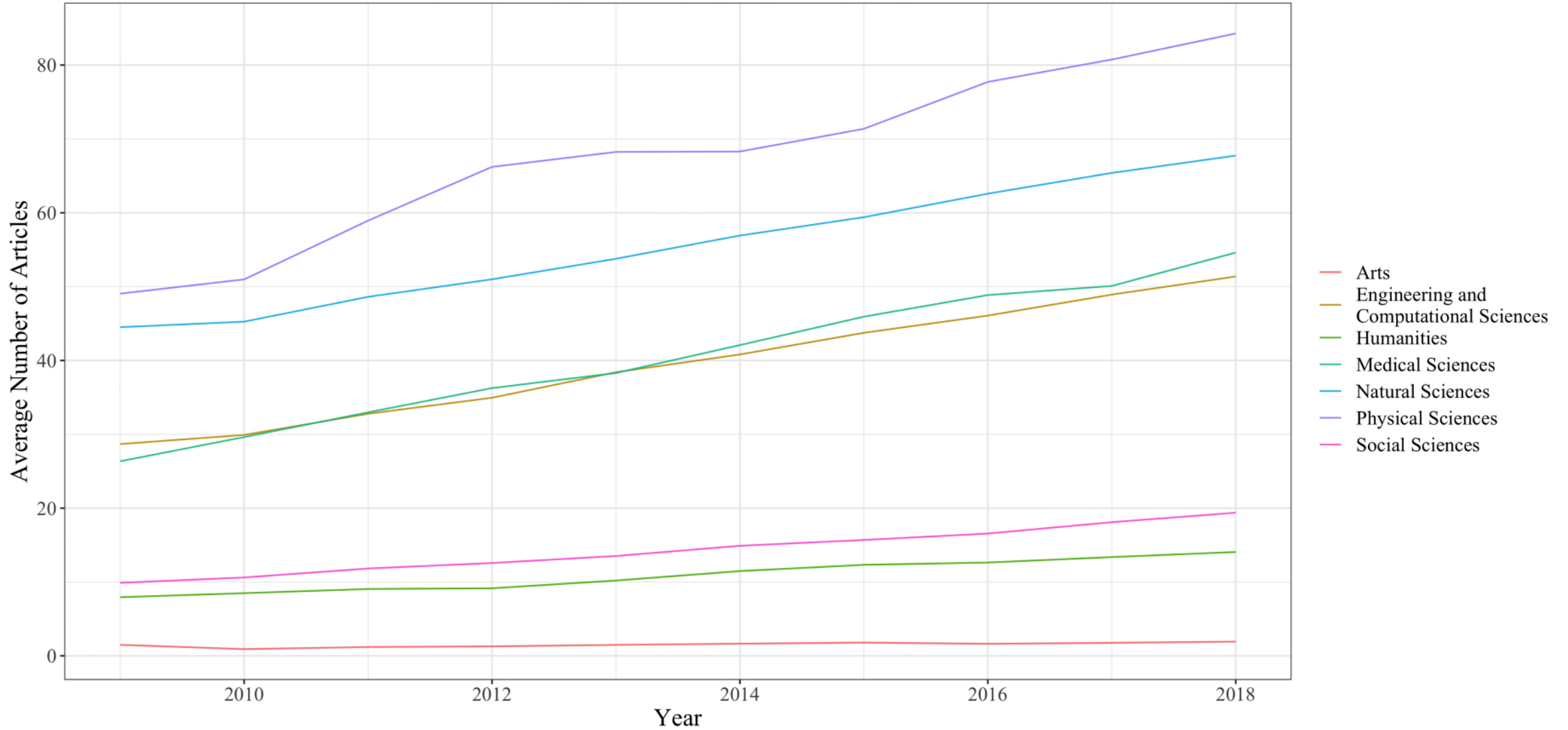
Persistence of Faculty in Departments, Academic Analytics Data



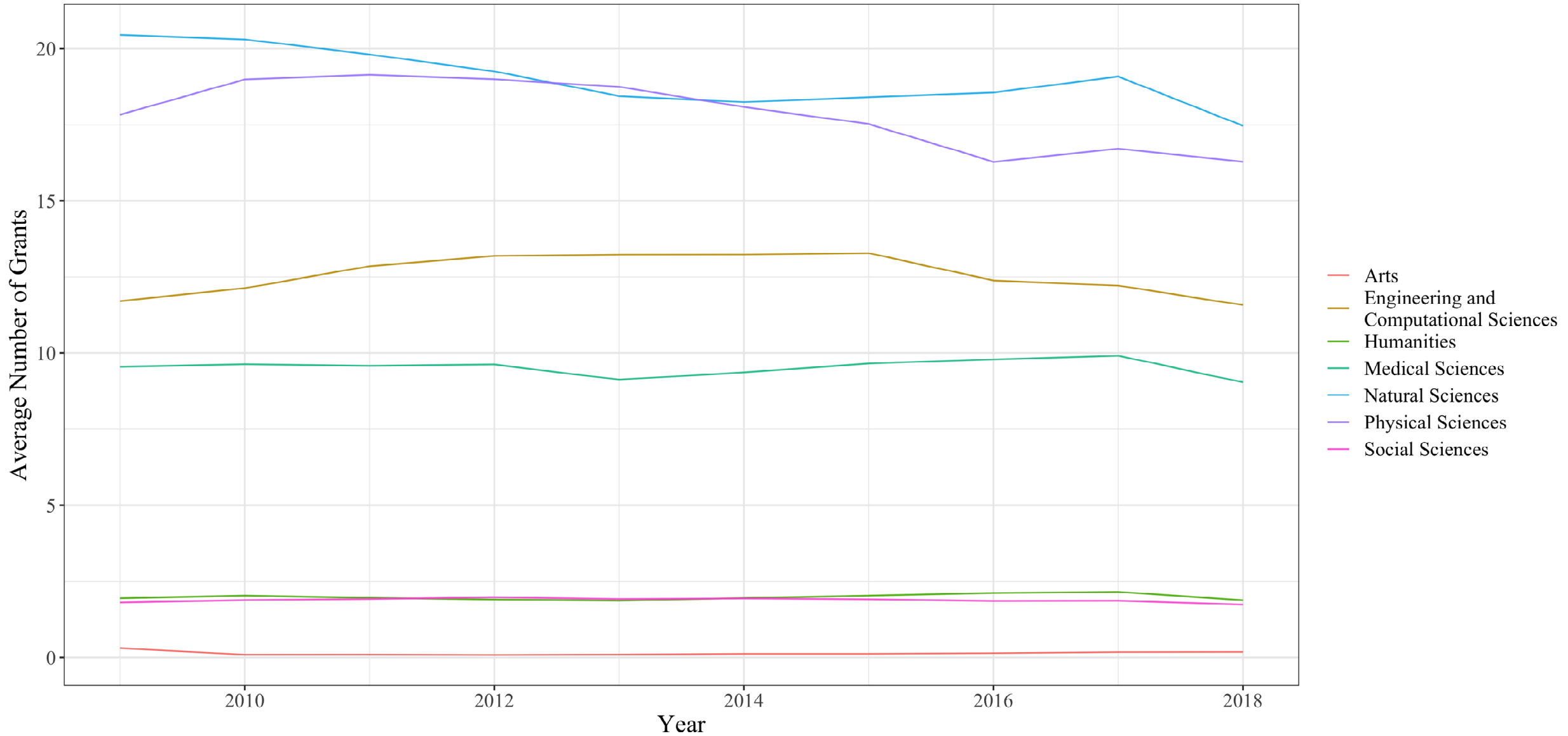
Average Department-Level Faculty Across Disciplines



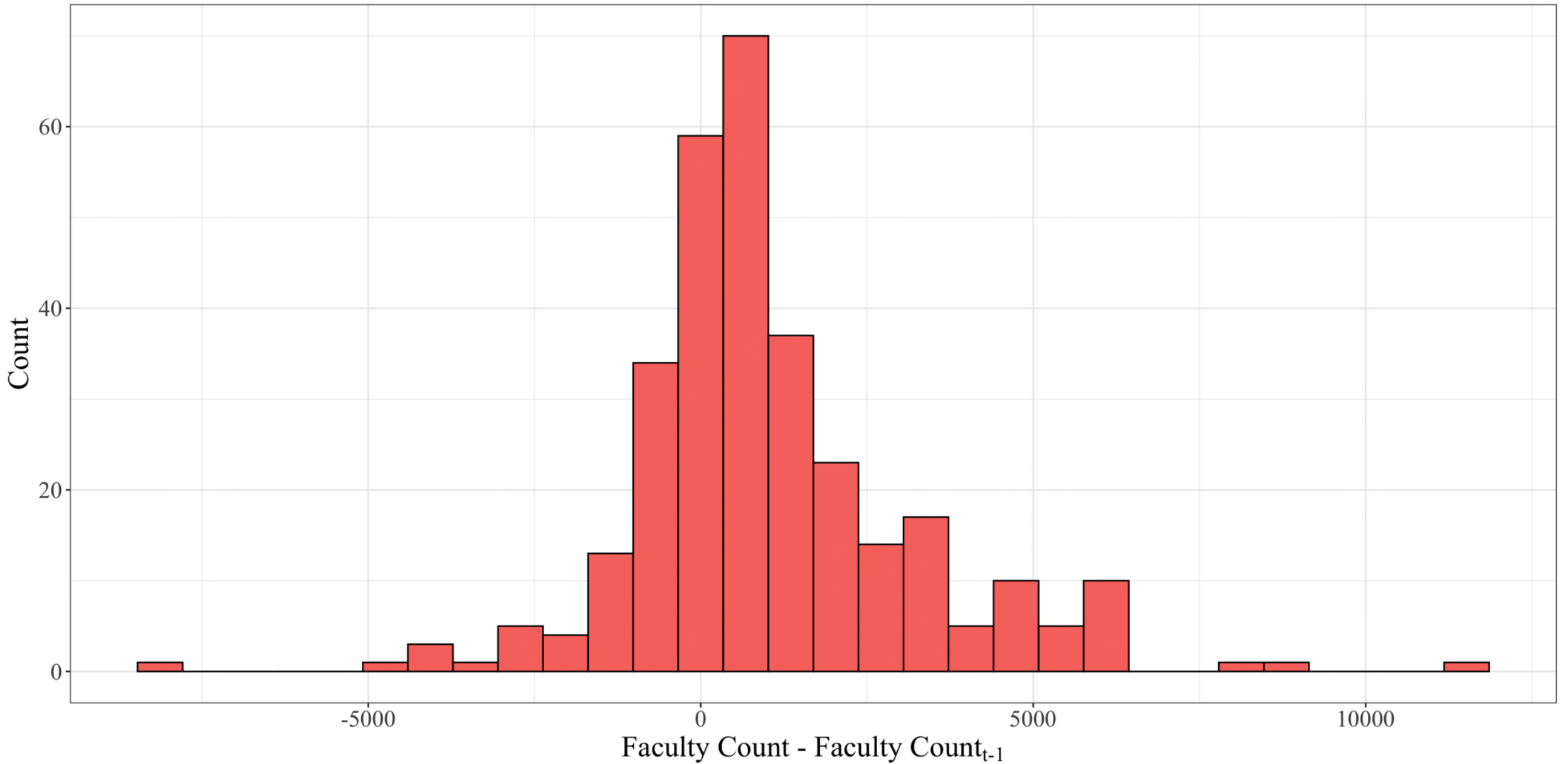
Average Department-Level Articles Across Disciplines



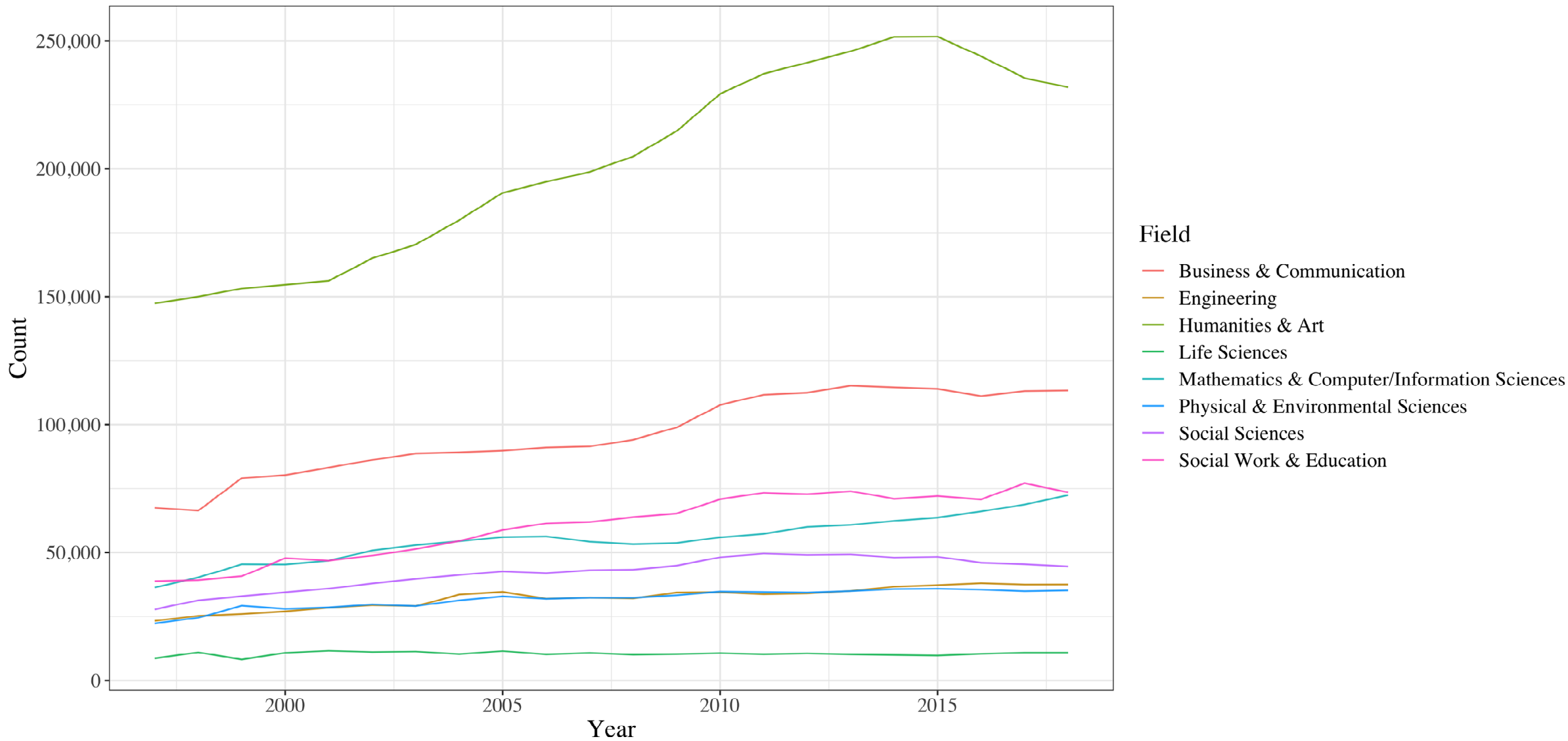
Average Department-Level Grants Across Disciplines



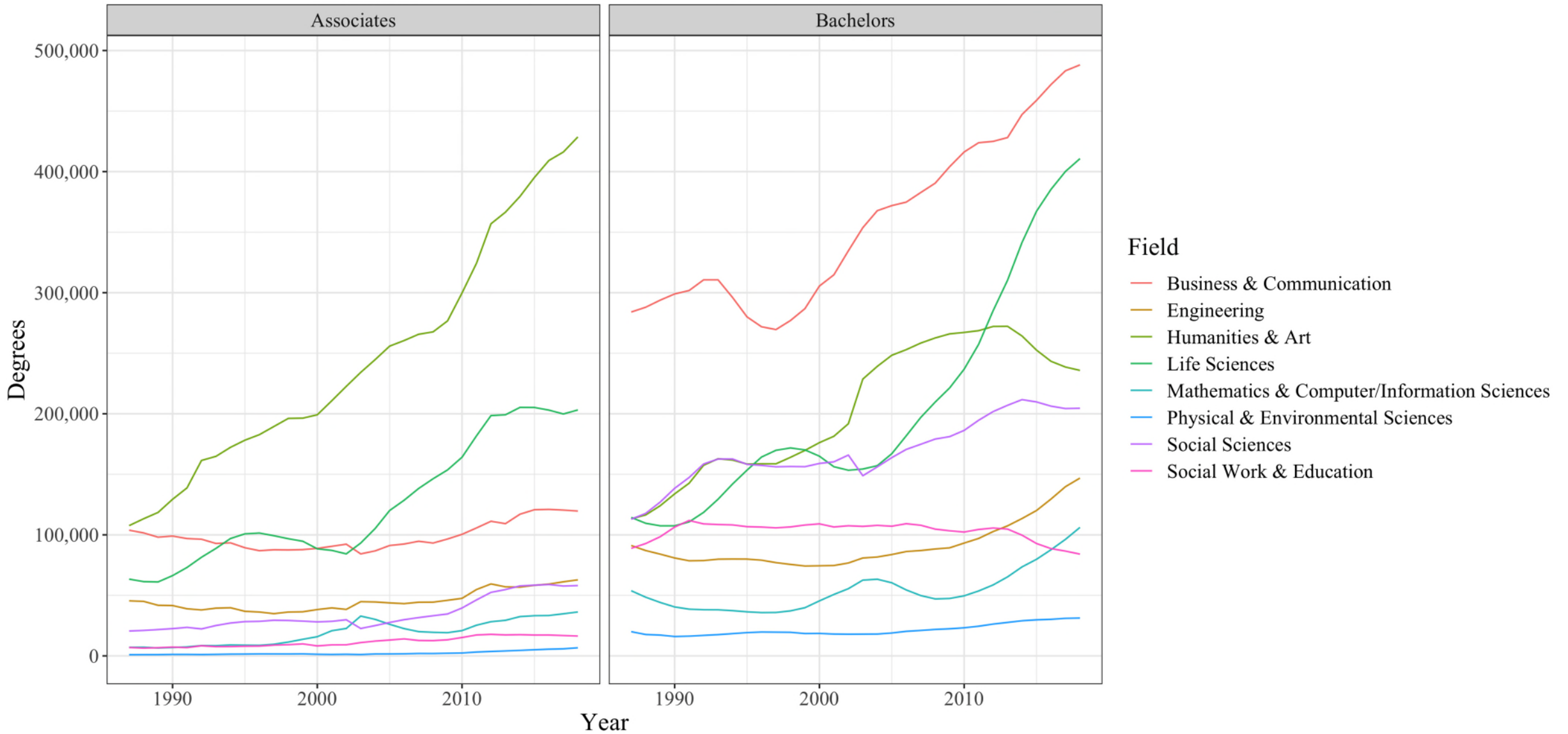
Persistence of Faculty in Fields, BLS Data



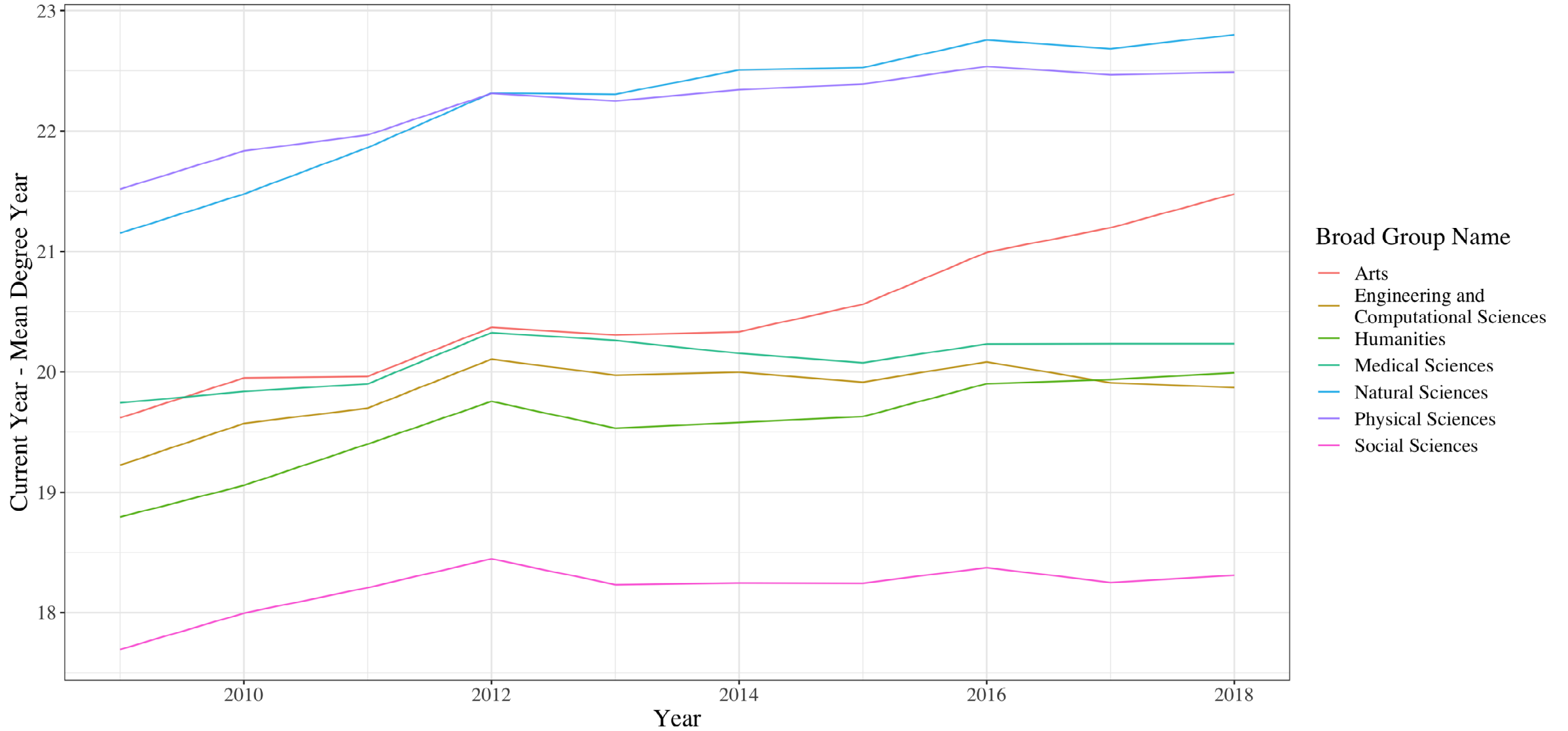
Job Counts by Category Over Time



Change in Degrees Awarded Over Time By Field



Change in Mean Time Since Degree



Change in Proportion of Professors by Rank

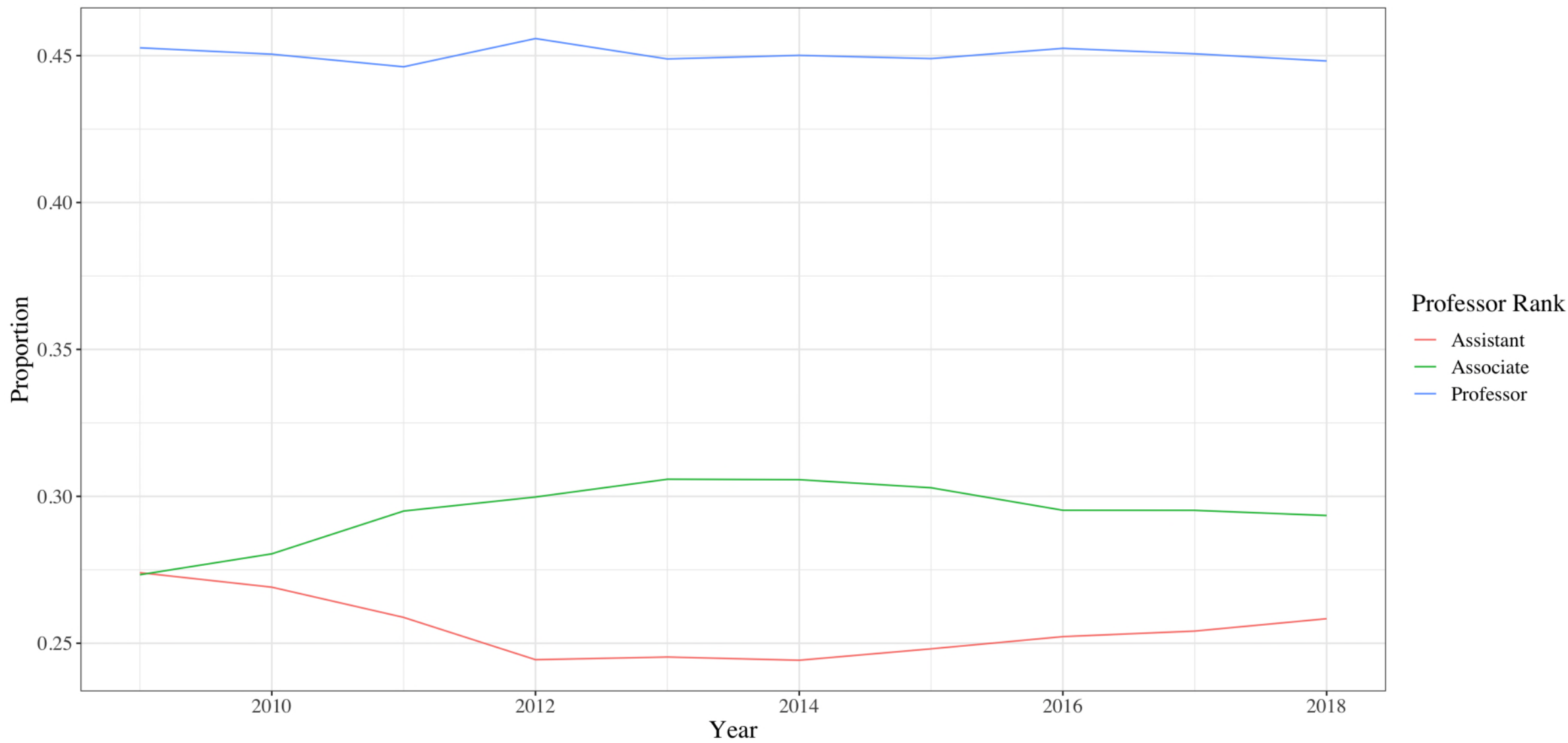


Table 2: Determinants of Faculty Counts in Departments (Discipline-Year Effects)

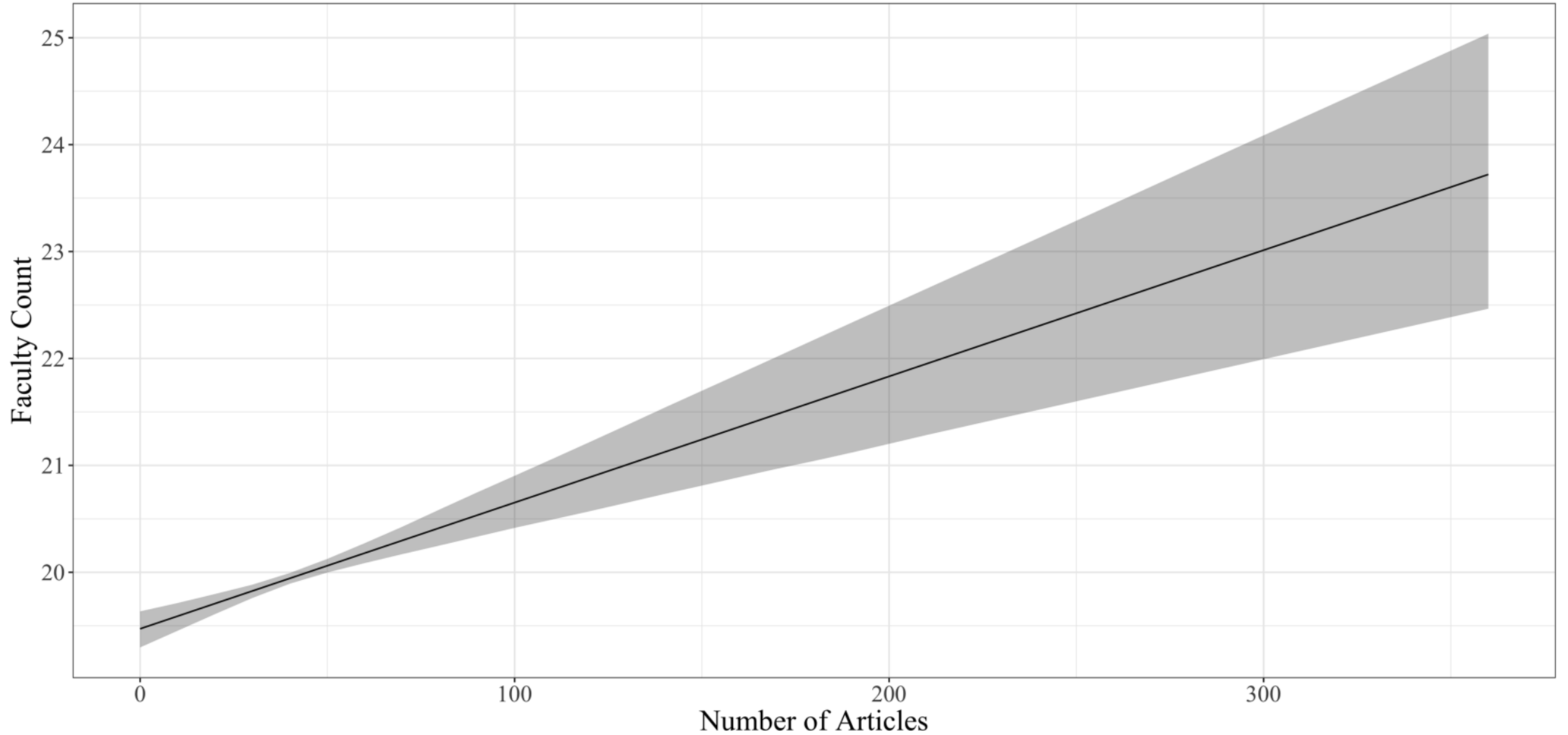
	(5)	(6)	(7)	(8)
	Faculty Count	Faculty Count	Faculty Count	Faculty Count
Faculty Count _{t-2}	0.904*** (144.33)	0.906*** (151.01)	0.903*** (137.45)	0.904*** (141.24)
Articles _{t-2}	0.0110*** (6.05)	0.00853*** (4.62)	0.0112*** (5.23)	0.00989*** (4.37)
Books _{t-2}	0.108*** (5.34)	0.111*** (5.43)	0.105*** (5.13)	0.109*** (5.22)
Grant Dollars _{t-2}	-4.79e-08** (-2.50)		-4.57e-08** (-2.33)	
Grants _{t-2}		-0.00846 (-1.17)		-0.00670 (-0.93)
Citations _{t-2}			-0.0000101 (-0.36)	-0.0000405 (-1.44)
Constant	0.767** (1.99)	0.760** (1.98)	0.452 (1.01)	0.455 (1.01)
Observations	98067	98067	90734	90734

t statistics in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < .01$

Discipline-Year Fixed Effects, SEs Clustered on University-Departments

Predicted Departmental Faculty Across Article Publications



Predictions Across Middle 99% of Observed Values

Table 3: Determinants of Disciplinary Faculty Counts Nationwide, BLS Data

	(9)	(10)
	Faculty Count (BLS)	Faculty Count (BLS)
	(Year Effects)	(Year & Field Effects)
Faculty Count (BLS) _{t-2}	1.053***	0.809***
	(90.91)	(8.75)
Associate Degrees _{t-2}	-0.0162***	-0.0686**
	(-3.32)	(-2.86)
Bachelor's Degrees _{t-2}	0.000763	0.0483
	(0.31)	(1.54)
R&D Expenditures _{t-2}	-0.0000171	-0.0000823
	(-0.87)	(-0.85)
Constant	2109.2	7163.7
	(1.48)	(0.63)
Observations	198	198

t statistics in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

SEs Clustered on Field

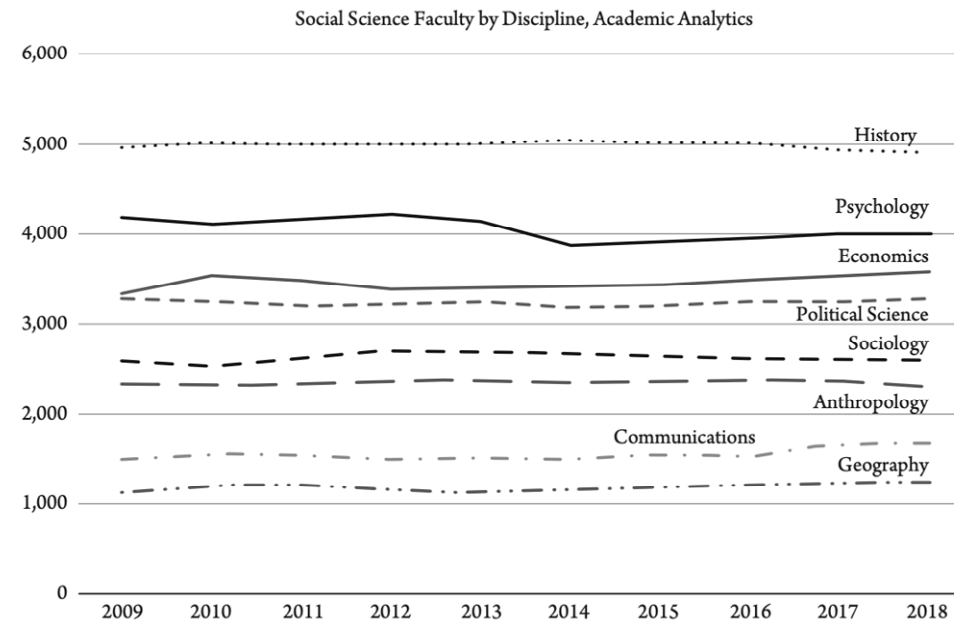
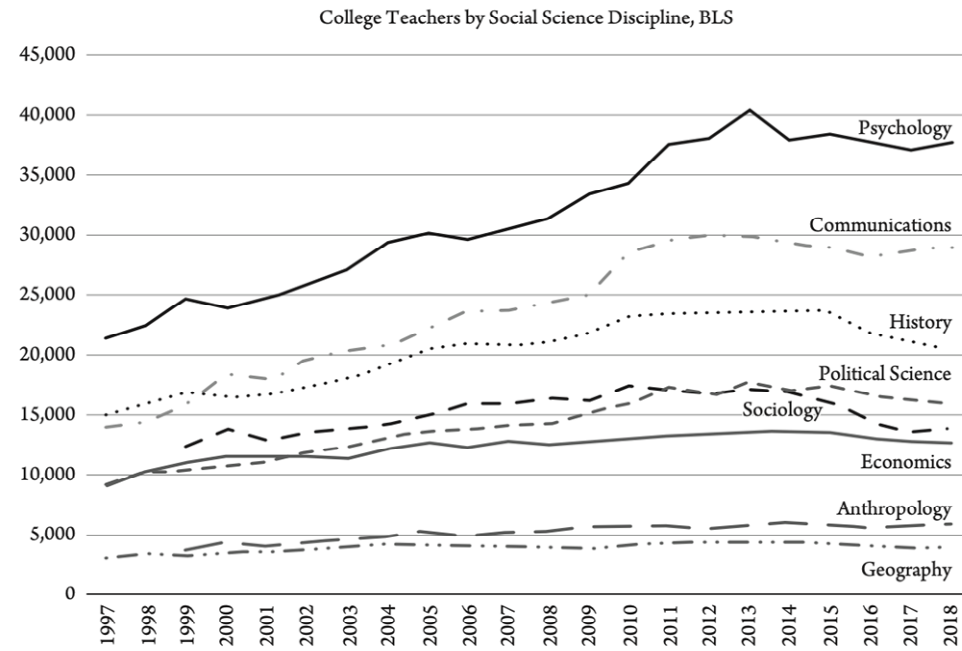


Figure 5.3 Faculty by Social Science Discipline. Data from the Bureau of Labor Statistics (top) and Academic Analytics (bottom).

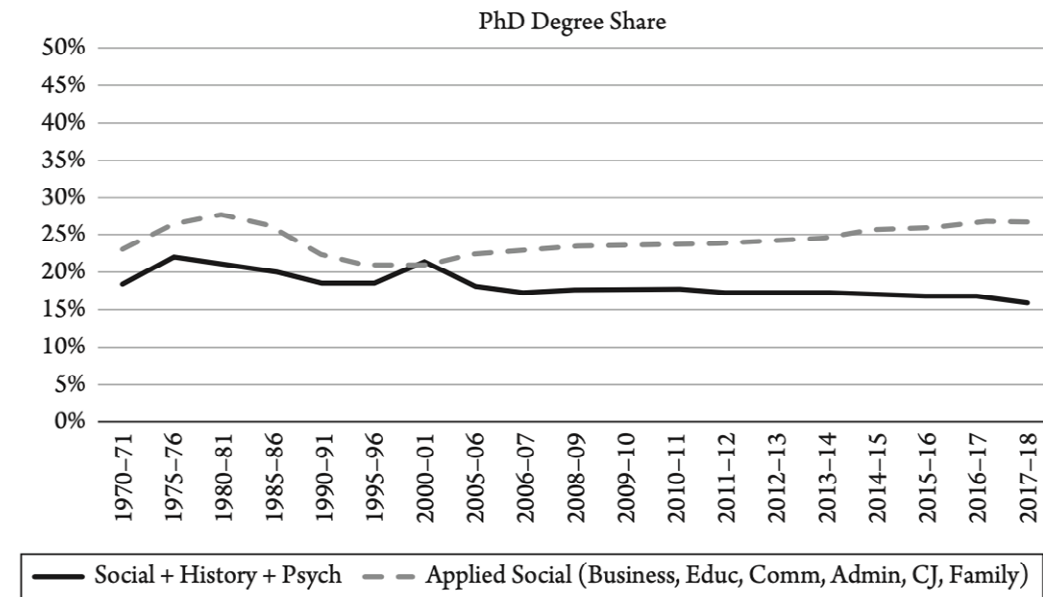
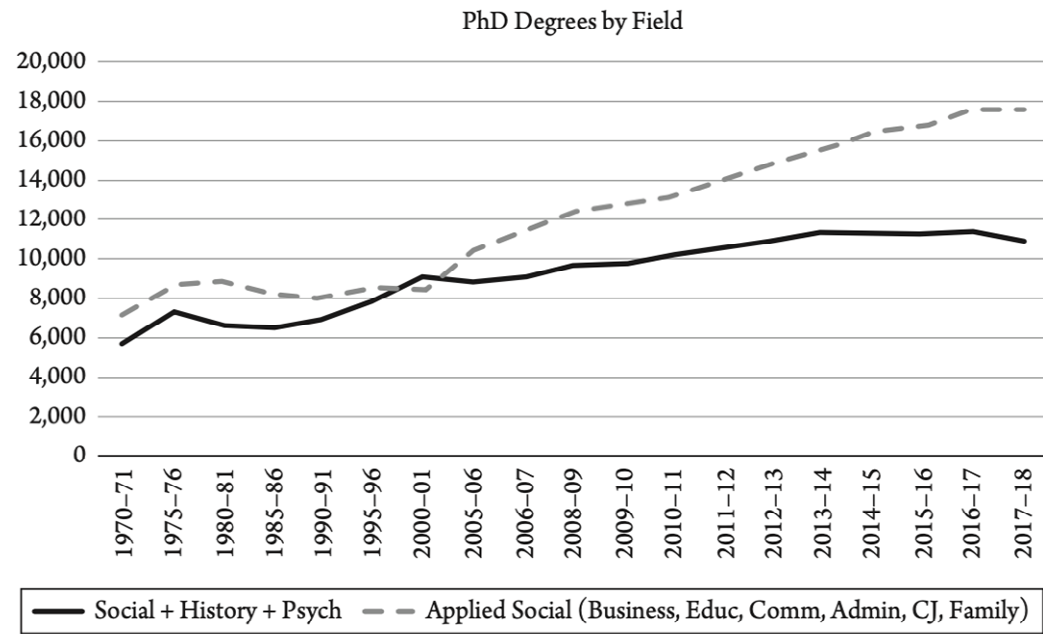


Figure 5.2 Doctoral Degrees Awarded in Social Science Fields. Data from National Center for Education Statistics, Table 324.10; aggregated by author.

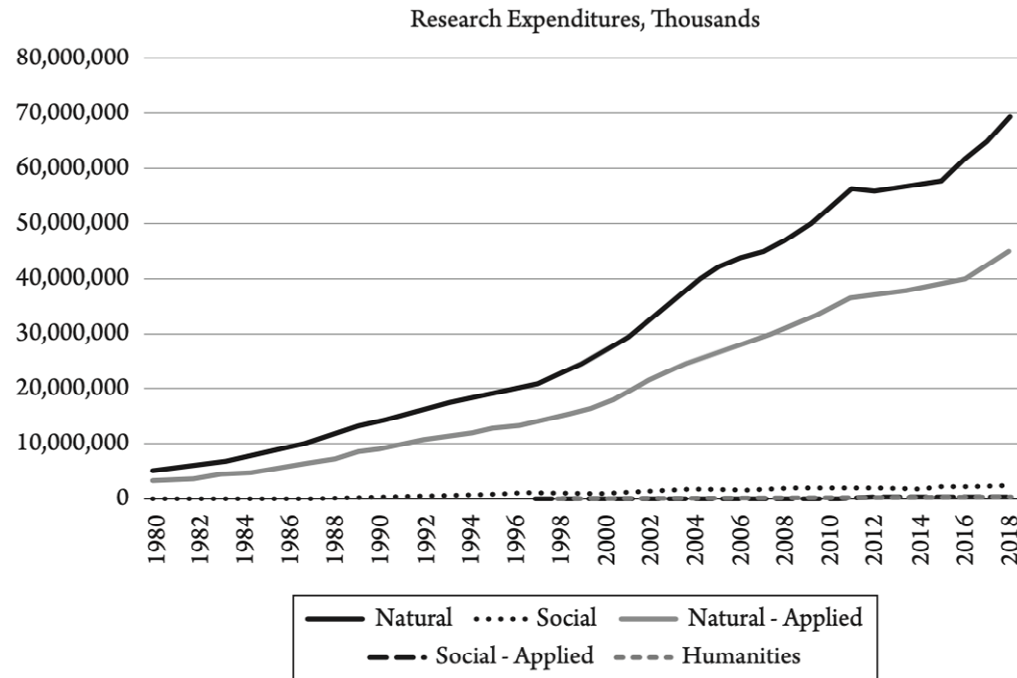
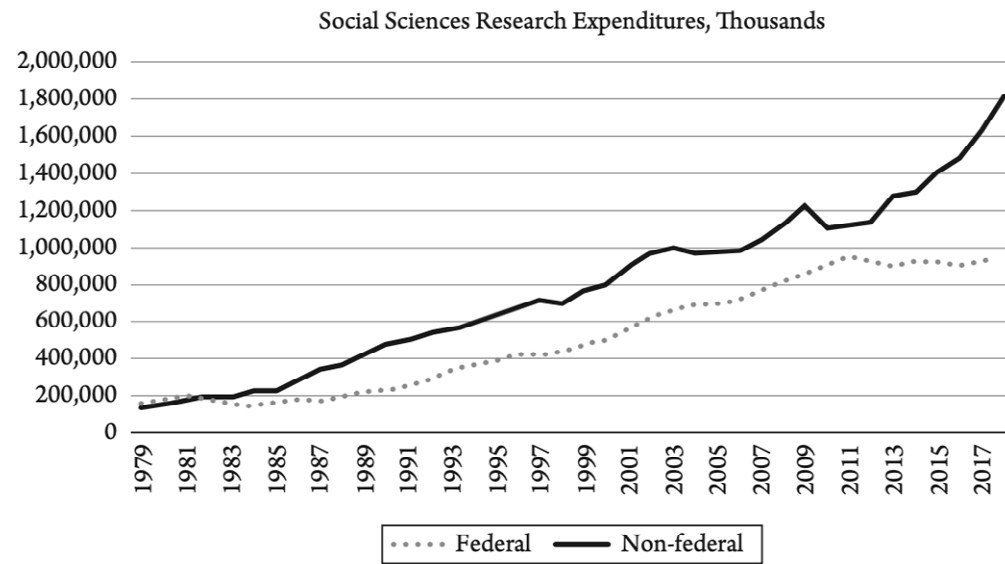


Figure 5.4 University Research Expenditures, Compared. Data from National Science Foundation, Higher Education Research and Development Survey.