

Towards a Framework for Accountability for Federal Financial Assistance Programs in Postsecondary Education

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Appendix A: Additional Figures and Tables

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Table A1: Programs Missing Components of Both Accountability Metrics

	<u>All institutions</u>		<u>Public institutions</u>		<u>Nonprofit institutions</u>		<u>For-profit institutions</u>	
	(1) Unweighted	(2) Exiter weighted	(3) Unweighted	(4) Exiter weighted	(5) Unweighted	(6) Exiter weighted	(7) Unweighted	(8) Exiter weighted
<i>A. Programs in all institutions</i>								
Number of programs	45,841		28,510		15,757		1,574	
Est. number of exiters (in millions)	0.709		0.513		0.175		0.021	
% missing by credential level								
Certificate	0.69	0.18	0.75	0.25	0.73	0.11	0.28	0.02
Associate	0.50	0.05	0.48	0.05	0.68	0.10	0.34	0.02
Bachelor's	0.28	0.03	0.13	0.01	0.38	0.08	0.32	0.01
Graduate certificate	0.87	0.54	0.88	0.60	0.87	0.54	0.67	0.17
Master's	0.44	0.09	0.43	0.11	0.46	0.09	0.35	0.01
Doctoral	0.67	0.39	0.65	0.40	0.70	0.52	0.38	0.02
First professional	0.58	0.26	0.55	0.16	0.61	0.34	0.57	0.24
<i>B. Programs in institutions that are participating in federal loan programs</i>								
Number of programs	40,982		24,245		15,313		1,424	
Est. number of exiters (in millions)	0.661		0.470		0.172		0.019	
% missing by credential level								
Certificate	0.66	0.17	0.72	0.23	0.72	0.11	0.27	0.02
Associate	0.45	0.05	0.43	0.05	0.67	0.10	0.33	0.02
Bachelor's	0.28	0.03	0.12	0.01	0.38	0.08	0.31	0.01
Graduate certificate	0.87	0.54	0.88	0.60	0.87	0.54	0.67	0.17
Master's	0.43	0.09	0.43	0.11	0.45	0.09	0.35	0.01
Doctoral	0.66	0.39	0.65	0.39	0.70	0.51	0.37	0.02
First professional	0.58	0.26	0.54	0.16	0.61	0.34	0.56	0.24

Notes: Total number of programs (irrespective of missing data) = 93,064; total exiters (irrespective of missing data) = 7.6 million.

Table A2: Distribution of Title IV Exiters by Field and Credential Level

	Undergrad certificate	Associate degree	Bachelor's degree	Graduate certificate	Master's degree	Doctoral degree	First prof. degree	Total exiters
51) Health Professions & Related Clinical Sciences	0.405	0.187	0.085	0.120	0.126	0.251	0.550	1,516,612
52) Business, Management, Marketing, & Related	0.082	0.115	0.195	0.209	0.274	0.072	0.002	1,165,988
24) Liberal Arts & Sciences, General Studies & Humanities	0.045	0.459	0.019	0.009	0.002		0.0001	1,073,123
13) Education	0.008	0.012	0.047	0.441	0.243	0.325	0.005	468,369
11) Computer & Information Sciences & Support Services	0.034	0.037	0.044	0.044	0.040	0.013		289,059
43) Security & Protective Services	0.046	0.037	0.034		0.014	0.003		257,636
42) Psychology	0.003	0.002	0.060	0.042	0.040	0.094	0.001	211,899
50) Visual & Performing Arts	0.027	0.012	0.045	0.003	0.018	0.026		206,647
45) Social Sciences	0.006	0.008	0.063	0.008	0.011	0.002	0.0001	199,365
12) Personal & Culinary Services	0.099	0.010	0.0003		0.00002			192,215
14) Engineering	0.0003	0.0004	0.053	0.013	0.046	0.026		184,771
26) Biological & Biomedical Sciences	0.002	0.001	0.058	0.016	0.011	0.034	0.0001	171,179
47) Mechanic & Repair Technologies/Technicians	0.077	0.015	0.0001					163,891
15) Engineering Technologies/Technicians	0.033	0.034	0.013		0.004			163,198
09) Communication, Journalism, & Related Programs	0.006	0.001	0.047		0.009	0.001		141,659
44) Public Administration & Social Service Professions	0.004	0.009	0.018	0.009	0.070	0.014	0.0003	138,768
30) Multi/Interdisciplinary Studies	0.004	0.019	0.031	0.012	0.009	0.006		134,156
31) Parks, Recreation, Leisure, & Fitness Studies	0.002	0.001	0.029		0.013			92,089
48) Precision Production	0.045	0.003						83,848
22) Legal Professions & Studies	0.004	0.006	0.002	0.034	0.004	0.026	0.438	82,113
19) Family & Consumer Sciences/Human Sciences	0.006	0.005	0.020	0.002	0.005	0.003		78,633
23) English Language & Literature/Letters	0.001	0.0003	0.024	0.001	0.007	0.008		70,929
40) Physical Sciences		0.003	0.017		0.002	0.084		59,012
01) Agriculture, Agriculture Operations, & Related Sciences	0.003	0.006	0.014		0.001			53,940
46) Construction Trades	0.026	0.004	0.0002					53,096
16) Foreign Languages, Literatures, & Linguistics	0.002	0.0001	0.015		0.001			43,278
27) Mathematics & Statistics			0.015		0.004			42,142
39) Theology & Religious Vocations	0.004	0.0005	0.004	0.030	0.020	0.005	0.001	40,589
54) History	0.0003		0.014		0.003	0.001		38,294
49) Transportation & Materials Moving	0.018	0.001	0.002		0.001			37,908
03) Natural Resources & Conservation	0.001	0.002	0.010		0.004			35,305
10) Communications Technologies/Technicians & Supp. Svc.	0.005	0.003	0.004		0.001			27,982
38) Philosophy & Religious Studies		0.001	0.007		0.001	0.003		21,200
04) Architecture & Related Services		0.00003	0.004		0.009	0.002	0.0004	18,479
05) Area, Ethnic, Cultural, & Gender Studies	0.002		0.005		0.001			15,753
41) Science Technologies/Technicians	0.0001	0.006	0.0003		0.00004			12,890
25) Library Science			0.00003	0.005	0.007		0.0002	7,051
29) Military Technologies		0.0003	0.0005					1,759
Total exiters	1,728,823	2,057,200	2,562,523	113,938	940,068	89,910	108,590	7,601,052

Notes: Fields are represented by 2-digit CIP codes (see <https://nces.ed.gov/ipeds/cipcode/browse.aspx?y=55>) for detailed descriptions. The procedure used to estimate the number of TIV exiters is described in Section 5 and Appendix B. Fields in descending order by total exiters across credential levels.

Table A3: Program Performance Under Different Net Earnings Premium Metric Options

	Number of:		Av. median earnings	Main definition		Natl ave earnings		No OOP		OOP over 10 years		OOP over 15 years	
	Programs	Students		NEP	% Pass	NEP	% Pass	NEP	% Pass	NEP	% Pass	NEP	% Pass
<i>A. All institutions</i>													
All programs	22,676	7,601,052	\$36,667	\$11,764	0.85	\$12,132	0.84	\$13,295	0.88	\$10,529	0.82	\$11,302	0.84
Undergraduate programs	17,671	6,348,546	\$32,306	\$11,571	0.87	\$11,753	0.87	\$12,724	0.89	\$10,695	0.85	\$11,280	0.86
Graduate programs	5,005	1,252,506	\$58,772	\$12,747	0.76	\$14,050	0.70	\$16,189	0.84	\$9,690	0.67	\$11,414	0.72
<i>B. Public institutions</i>													
All programs	13,343	5,109,395	\$34,959	\$11,817	0.88	\$12,074	0.87	\$12,882	0.89	\$10,964	0.87	\$11,504	0.88
Undergraduate programs	10,906	4,544,399	\$32,027	\$11,586	0.89	\$11,798	0.90	\$12,415	0.90	\$10,956	0.88	\$11,377	0.89
Graduate programs	2,437	564,996	\$58,546	\$13,677	0.81	\$14,298	0.71	\$16,646	0.87	\$11,032	0.74	\$12,523	0.78
<i>C. Nonprofit institutions</i>													
All programs	6,995	1,463,777	\$46,422	\$15,252	0.86	\$16,037	0.84	\$18,342	0.91	\$12,724	0.79	\$14,282	0.83
Undergraduate programs	4,631	935,634	\$37,613	\$15,351	0.89	\$15,608	0.88	\$17,956	0.93	\$13,371	0.84	\$14,695	0.87
Graduate programs	2,364	528,143	\$62,028	\$15,076	0.80	\$16,798	0.75	\$19,025	0.88	\$11,579	0.71	\$13,552	0.76
<i>D. For-profit institutions</i>													
All programs	2,338	1,027,880	\$31,266	\$6,537	0.70	\$6,854	0.71	\$8,156	0.77	\$5,239	0.63	\$6,057	0.68
Undergraduate programs	2,134	868,513	\$28,051	\$7,420	0.75	\$7,368	0.74	\$8,703	0.79	\$6,444	0.70	\$7,097	0.73
Graduate programs	204	159,367	\$48,783	\$1,722	0.42	\$4,055	0.53	\$5,173	0.61	-\$1,334	0.28	\$389	0.38
<i>E. HBCUs</i>													
All programs	540	124,728	\$30,714	\$8,082	0.81	\$6,288	0.69	\$9,558	0.86	\$6,869	0.76	\$7,612	0.80
Undergraduate programs	429	104,488	\$28,003	\$9,673	0.90	\$7,712	0.76	\$10,563	0.93	\$8,996	0.87	\$9,448	0.90
Graduate programs	111	20,240	\$44,713	-\$130	0.34	-\$1,067	0.29	\$4,368	0.50	-\$4,113	0.23	-\$1,867	0.29

Notes: OOP = out-of-pocket costs. HBCU = Historically Black Colleges and Universities. “Av. median earnings” is the average median earnings for programs in the specified sector and credential level (weighted by estimated number of exiters). The main undergraduate program NEP uses OOP costs amortized over 20 years and median earnings for high school graduates or GED holders aged 25-34 in the same state as the institution. The main graduate program NEP uses OOP costs amortized over 25 years and median earnings for bachelor’s degree recipients in the same broad field aged 25-34 in the same state as the institution. The metric used in the “Natl ave earnings” calculations sets counterfactual earnings equal to median earnings nationwide, which is equal to \$19,400 for undergraduate programs and \$41,282 for graduate programs. The “No OOP” metric excludes out-of-pocket costs and the “OOP over 10 (15) years” metric amortizes estimated OOP costs over 10 (15) years.

Table A3: Program Performance Under Different Net Earnings Premium Metric Options, cont.

	<u>Number of:</u>		Av. median earnings	<u>Main definition</u>		<u>BA earnings by state for grad progs</u>		<u>HS earnings for grad progs</u>		<u>25th %tile of BA for grad progs</u>		<u>75th %tile of HS for grad progs</u>	
	Programs	Students		NEP	% Pass	NEP	% Pass	NEP	% Pass	NEP	% Pass	NEP	% Pass
<i>A. All institutions</i>													
All programs	22,676	7,601,052	\$36,667	\$11,764	0.85	\$11,899	0.84	\$15,530	0.89	\$15,152	0.89	\$13,193	0.87
Undergraduate programs	17,671	6,348,546	\$32,306	\$11,571	0.87	\$11,571	0.87	\$11,571	0.87	\$11,571	0.87	\$11,571	0.87
Graduate programs	5,005	1,252,506	\$58,772	\$12,747	0.76	\$13,567	0.71	\$35,606	1.00	\$33,314	0.99	\$21,421	0.90
<i>B. Public institutions</i>													
All programs	13,343	5,109,395	\$34,959	\$11,817	0.88	\$11,924	0.87	\$14,298	0.90	\$14,074	0.90	\$12,738	0.89
Undergraduate programs	10,906	4,544,399	\$32,027	\$11,586	0.89	\$11,586	0.89	\$11,586	0.89	\$11,586	0.89	\$11,586	0.89
Graduate programs	2,437	564,996	\$58,546	\$13,677	0.81	\$14,652	0.72	\$36,133	1.00	\$34,109	0.99	\$22,012	0.91
<i>C. Nonprofit institutions</i>													
All programs	6,995	1,463,777	\$46,422	\$15,252	0.86	\$15,383	0.84	\$23,636	0.93	\$22,718	0.93	\$18,404	0.90
Undergraduate programs	4,631	935,634	\$37,613	\$15,351	0.89	\$15,351	0.89	\$15,351	0.89	\$15,351	0.89	\$15,351	0.89
Graduate programs	2,364	528,143	\$62,028	\$15,076	0.80	\$15,442	0.74	\$38,313	0.99	\$35,771	0.99	\$23,815	0.91
<i>D. For-profit institutions</i>													
All programs	2,338	1,027,880	\$31,266	\$6,537	0.70	\$6,813	0.72	\$10,106	0.79	\$9,733	0.78	\$8,034	0.76
Undergraduate programs	2,134	868,513	\$28,051	\$7,420	0.75	\$7,420	0.75	\$7,420	0.75	\$7,420	0.75	\$7,420	0.75
Graduate programs	204	159,367	\$48,783	\$1,722	0.42	\$3,503	0.60	\$24,758	1.00	\$22,353	0.99	\$11,385	0.82
<i>E. HBCUs</i>													
All programs	540	124,728	\$30,714	\$8,082	0.81	\$8,093	0.80	\$11,814	0.91	\$11,184	0.91	\$9,478	0.86
Undergraduate programs	429	104,488	\$28,003	\$9,673	0.90	\$9,673	0.90	\$9,673	0.90	\$9,673	0.90	\$9,673	0.90
Graduate programs	111	20,240	\$44,713	-\$130	0.34	-\$62	0.28	\$22,870	0.99	\$18,987	0.98	\$8,474	0.63

Notes: OOP = out-of-pocket costs. HBCU = Historically Black Colleges and Universities. "Av. median earnings" is the average median earnings for programs in the specified sector and credential level (weighted by estimated number of exiters). The main definition uses OOP costs amortized over 20 years and median earnings for high school graduates or GED holders aged 25-34 in the same state as the institution. The "BA earnings by state for grad programs" metric sets graduate counterfactual earnings equal to median earnings for bachelor's degree recipients between 25 and 34 in the same state as the institution. "HS earnings" uses median earnings of high school graduates and GED holders between 25 and 34 in the same state as the institution as counterfactual earnings for graduate programs. The "25th %tile of BA earnings" metric uses the 25th percentile of earnings of bachelor's degree recipients between 25 and 34 in the same state as counterfactual earnings for graduate programs. The "75th %tile of JS earnings" uses the 75th percentile of earnings of high school graduates and GED recipients between 25 and 34 in the same state as counterfactual earnings for graduate programs.

Table A4: Undergraduate Program Performance Under Different Net Earnings Premium Metric Options

	Number of:		Av. median earnings	Main definition		Natl ave earnings		No OOP		OOP over 10 years		OOP over 15 years	
	Programs	Students		NEP	% Pass	NEP	% Pass	NEP	% Pass	NEP	% Pass	NEP	% Pass
<i>A. Undergraduate certificate programs</i>													
All institutions	2,945	1,728,823	\$27,249	\$6,917	0.77	\$7,109	0.78	\$7,657	0.79	\$6,355	0.74	\$6,731	0.76
Public institutions	1,356	1,011,473	\$28,697	\$8,569	0.84	\$8,966	0.86	\$8,901	0.84	\$8,318	0.84	\$8,486	0.84
Nonprofit institutions	172	168,213	\$27,376	\$6,820	0.74	\$6,581	0.74	\$8,215	0.74	\$5,760	0.70	\$6,469	0.72
For-profit institutions	1,417	549,137	\$24,544	\$3,903	0.64	\$3,851	0.64	\$5,195	0.70	\$2,921	0.58	\$3,578	0.62
HBCUs	33	27,310	\$26,320	\$8,776	0.93	\$6,475	0.78	\$9,221	0.93	\$8,438	0.93	\$8,664	0.93
<i>B. Associate degree programs</i>													
All institutions	3,591	2,057,200	\$27,769	\$7,827	0.83	\$7,971	0.83	\$8,225	0.84	\$7,525	0.81	\$7,727	0.82
Public institutions	2,889	1,769,017	\$27,437	\$7,639	0.82	\$7,808	0.83	\$7,868	0.83	\$7,465	0.82	\$7,581	0.82
Nonprofit institutions	258	140,578	\$30,315	\$9,281	0.87	\$9,341	0.81	\$10,854	0.90	\$8,085	0.74	\$8,884	0.80
For-profit institutions	444	147,605	\$29,318	\$8,702	0.88	\$8,620	0.89	\$10,000	0.90	\$7,715	0.84	\$8,375	0.86
HBCUs	31	13,853	\$30,941	\$14,424	0.90	\$11,385	0.48	\$14,579	0.90	\$14,306	0.90	\$14,385	0.90
<i>C. Bachelor's degree programs</i>													
All institutions	11,135	2,562,523	\$39,361	\$17,715	0.97	\$17,923	0.97	\$19,753	0.99	\$16,167	0.95	\$17,202	0.97
Public institutions	6,661	1,763,909	\$38,539	\$17,274	0.98	\$17,423	0.98	\$18,990	0.99	\$15,970	0.97	\$16,842	0.98
Nonprofit institutions	4,201	626,844	\$41,997	\$19,001	0.94	\$19,435	0.94	\$22,163	0.98	\$16,599	0.90	\$18,205	0.93
For-profit institutions	273	171,771	\$38,176	\$17,560	0.97	\$17,532	0.96	\$18,804	1.00	\$16,616	0.95	\$17,248	0.97
HBCUs	365	63,326	\$28,086	\$9,020	0.89	\$7,442	0.82	\$10,264	0.93	\$8,075	0.84	\$8,707	0.88

Notes: OOP = out-of-pocket costs. HBCU = Historically Black Colleges and Universities. "Av. median earnings" is the average median earnings for programs in the specified sector and credential level (weighted by estimated number of exiters). The main program NEP metric uses OOP costs amortized over 20 years and median earnings for high school graduates or GED holders aged 25-34 in the same state as the institution. The metric used in the "Natl ave earnings" calculations sets counterfactual earnings equal to median earnings nationwide, which is equal to \$19,400. The "No OOP" metric excludes out-of-pocket costs and the "OOP over 10 (15) years" metric amortizes estimated OOP costs over 10 (15) years instead of 20.

Table A5: Graduate Program Performance Under Different Net Earnings Premium Metric Options

	<u>Number of:</u>		Av. median earnings	<u>Main definition</u>		<u>BA earnings by state</u>		<u>HS earnings</u>		<u>25th %tile of BA earnings</u>		<u>75th %tile of HS earnings</u>	
	Programs	Students		NEP	% Pass	NEP	% Pass	NEP	% Pass	NEP	% Pass	NEP	% Pass
<i>A. Graduate certificate programs</i>													
All institutions	220	113,938	\$58,687	\$14,384	0.75	\$13,678	0.78	\$35,945	1	\$33,518	0.99	\$21,517	0.91
Public institutions	112	51,550	\$58,917	\$15,602	0.82	\$15,076	0.82	\$36,972	0.99	\$34,499	0.99	\$22,396	0.92
Nonprofit institutions	87	42,173	\$64,906	\$20,613	0.89	\$18,452	0.84	\$41,707	1	\$39,504	1	\$26,904	0.98
For-profit institutions	21	20,214	\$45,124	-\$1,785	0.28	\$101	0.54	\$21,240	1	\$18,460	0.98	\$7,973	0.70
HBCUs	1	469	\$89,332	\$48,738	1	\$49,924	1	\$66,933	1	\$68,504	1	\$55,105	1
<i>B. Master's degree programs</i>													
All institutions	3857	940,068	\$55,496	\$10,788	0.74	\$11,181	0.67	\$33,182	1	\$30,962	0.99	\$18,999	0.88
Public institutions	1899	420,143	\$54,969	\$11,474	0.79	\$11,803	0.67	\$33,290	1	\$31,270	0.99	\$19,207	0.89
Nonprofit institutions	1820	403,803	\$58,928	\$13,498	0.80	\$13,463	0.71	\$36,155	0.99	\$33,740	0.99	\$21,664	0.89
For-profit institutions	138	116,122	\$45,469	-\$1,115	0.35	\$993	0.55	\$22,453	1	\$20,191	0.99	\$8,981	0.82
HBCUs	87	14,283	\$38,126	-\$3,965	0.24	-\$5,082	0.16	\$17,407	0.98	\$13,940	0.97	\$2,982	0.60
<i>C. Doctoral programs</i>													
All institutions	496	89,910	\$72,247	\$23,855	0.93	\$24,818	0.94	\$46,427	1	\$44,285	1	\$32,642	0.98
Public institutions	228	40,361	\$71,435	\$23,429	0.91	\$26,220	0.95	\$47,802	1	\$46,288	1	\$33,860	0.97
Nonprofit institutions	236	28,892	\$74,271	\$25,945	0.93	\$25,364	0.93	\$47,852	0.99	\$45,423	0.99	\$33,696	0.98
For-profit institutions	32	20,657	\$71,002	\$21,766	0.97	\$21,313	0.96	\$41,748	1	\$38,782	1	\$28,789	1
HBCUs	11	1,502	\$66,380	\$18,863	1	\$21,006	1	\$43,016	1	\$39,312	1	\$28,298	1
<i>D. First professional degree programs</i>													
All institutions	432	108,590	\$76,065	\$18,792	0.75	\$24,794	0.85	\$47,275	0.99	\$44,381	0.99	\$32,992	0.92
Public institutions	198	52,941	\$76,744	\$21,866	0.86	\$28,035	0.91	\$48,993	1	\$46,978	1	\$34,867	0.97
Nonprofit institutions	221	53,275	\$76,609	\$16,762	0.67	\$22,675	0.80	\$46,807	0.98	\$42,972	0.98	\$32,312	0.90
For-profit institutions	13	2,374	\$48,703	-\$4,225	0.32	\$103	0.32	\$19,456	1	\$18,110	1	\$6,436	0.39
HBCUs	12	3,986	\$54,905	\$706	0.36	\$4,108	0.36	\$29,672	1	\$23,589	1	\$15,198	0.57

Notes: OOP = out-of-pocket costs. HBCU = Historically Black Colleges and Universities. "Av. median earnings" is the average median earnings for programs in the specified sector and credential level (weighted by estimated number of exiters). The main definition uses OOP costs amortized over 25 years and median earnings for bachelor's degree recipients in the same broad field who are between the ages of 25 and 34 and are in the same state as the institution. The metric used in the "BA earnings by state" metric does not calculate separate counterfactual earnings thresholds by broad field of study. "HS earnings" uses median earnings of high school graduates and GED holders between 25 and 34 in the same state as the institution as counterfactual earnings. The "25th %tile of BA earnings" metric uses the 25th percentile of earnings of bachelor's degree recipients between 25 and 34 in the same state as counterfactual earnings. The "75th %tile of JS earnings" uses the 75th percentile of earnings of high school graduates and GED recipients between 25 and 34 in the same state as counterfactual earnings.

Table A6: Characteristics of Programs by Net Earnings Premium Metric Performance

	A. Undergraduate Programs			B. Graduate programs		
	(1) Pass	(2) Fail	(3) Bottom 1%	(4) Pass	(5) Fail	(6) Bottom 1%
<i>A. Institutional control and credential level</i>						
Control						
Public institutions	0.64	0.43	0.22	0.50	0.45	0.09
Nonprofit institutions	0.28	0.14	0.11	0.47	0.48	0.65
For-profit institutions	0.08	0.42	0.66	0.03	0.07	0.26
Control by credential level						
Public institutions						
Certificate	0.07	0.11	0.11	0	0	0
Associate degree	0.15	0.24	0.11	0	0	0
Bachelor's degree	0.42	0.09	0.01	0	0	0
Graduate certificate	0	0	0	0.02	0.02	0.02
Master's degree	0	0	0	0.38	0.39	0.05
Doctoral degree	0	0	0	0.06	0.01	0
First professional degree	0	0	0	0.05	0.02	0.02
Nonprofit institutions						
Certificate	0.01	0.02	0	0	0	0
Associate degree	0.01	0.01	0.02	0	0	0
Bachelor's degree	0.26	0.11	0.09	0	0	0
Graduate certificate	0	0	0	0.02	0.01	0.02
Master's degree	0	0	0	0.36	0.39	0.49
Doctoral degree	0	0	0	0.05	0.03	0
First professional degree	0	0	0	0.04	0.05	0.14
For-profit institutions						
Certificate	0.04	0.38	0.63	0	0	0
Associate degree	0.02	0.04	0.02	0	0	0
Bachelor's degree	0.02	0.01	0.01	0	0	0
Graduate certificate	0	0	0	0.002	0.01	0.05
Master's degree	0	0	0	0.02	0.06	0.19
Doctoral degree	0	0	0	0.01	0.002	0
First professional degree	0	0	0	0.002	0.01	0.02
<i>B. CIP code categories</i>						
Arts and humanities	0.18	0.30	0.20	0.08	0.18	0.19
Education and public service	0.18	0.08	0.04	0.35	0.27	0
Agriculture, trades, services	0.17	0.46	0.73	0.03	0.11	0
Business, social science, law	0.15	0.05	0.01	0.22	0.20	0.07
STEM and allied health	0.33	0.11	0.04	0.32	0.23	0.74
<i>C. Performance on metrics</i>						
Net earnings premium	\$15,274	-\$3,726	-\$9,466	\$19,349	-\$7,641	-\$32,742
Earnings	\$36,531	\$17,398	\$12,827	\$65,084	\$38,211	\$23,249
OOP costs	\$27,904	\$21,072	\$24,681	\$53,979	\$56,579	\$101,887
Fails NEP metric	0	1	1	0	1	1
Repayment rate	0.11	0.04	0.04	0.10	0.01	-0.03
Balance at repayment (\$1m)	2.02	1.20	0.58	5.38	5.12	5.53
Balance at 3 years (\$1m)	1.86	1.18	0.58	4.83	5.26	5.81
Fails LRR metric	0.19	0.39	0.33	0.21	0.56	0.86
<i>D. Other characteristics</i>						
Av. exiters	256	234	118	164	192	113
Av. completers	171	138	76	161	116	89
Median debt	\$20,197	\$13,729	\$11,575	\$53,979	\$56,579	\$101,887
Total programs	15,416	2,255	161	3,767	1,231	43
Total exiters (1m)	5.522	0.827	0.019	0.946	0.306	0.005

Table A7: Programs with a Negative Loan Repayment Rate by Credential Level and Institutional Control, Weighted by Cohort Loan Balance at Repayment Entry

	(1) Undergrad. certificate	(2) Associate degree	(3) Bachelor's degree	(4) Grad. certificate	(5) Master's degree	(6) Doctoral degree	(7) First prof. degree	(8) All credentials
All institutions	40%	57%	23%	43%	39%	33%	27%	33%
By control								
Public institutions	47%	54%	14%	34%	30%	19%	15%	24%
Nonprofit institutions	51%	59%	18%	37%	34%	32%	36%	30%
For-profit institutions	35%	67%	77%	85%	81%	67%	67%	67%

Notes: Only programs with a nonmissing loan repayment rate (N = 46,375) are included.

Table A8: Characteristics of Programs by Net Earnings Premium Metric Performance

	<u>A. Undergraduate Programs</u>			<u>B. Graduate programs</u>		
	(1) Pass	(2) Fail	(3) Bottom 1%	(4) Pass	(5) Fail	(6) Bottom 1%
<i>A. Institutional control and credential level</i>						
Control						
Public institutions	0.57	0.67	0.59	0.56	0.53	0.51
Nonprofit institutions	0.37	0.21	0.31	0.43	0.41	0.41
For-profit institutions	0.06	0.12	0.10	0.01	0.06	0.08
Control by credential level						
Public institutions						
Certificate	0.08	0.13	0.22	0	0	0
Associate degree	0.18	0.36	0.24	0	0	0
Bachelor's degree	0.31	0.18	0.13	0	0	0
Graduate certificate	0	0	0	0.03	0.03	0.03
Master's degree	0	0	0	0.39	0.41	0.43
Doctoral degree	0	0	0	0.11	0.08	0.03
First professional degree	0	0	0	0.03	0.01	0.02
Nonprofit institutions						
Certificate	0.01	0.01	0.04	0	0	0
Associate degree	0.02	0.03	0.03	0	0	0
Bachelor's degree	0.34	0.17	0.23	0	0	0
Graduate certificate	0	0	0	0.03	0.02	0.10
Master's degree	0	0	0	0.31	0.32	0.25
Doctoral degree	0	0	0	0.06	0.04	0.03
First professional degree	0	0	0	0.02	0.02	0.03
For-profit institutions						
Certificate	0.05	0.06	0.07	0	0	0
Associate degree	0.01	0.04	0.03	0	0	0
Bachelor's degree	0.01	0.03	0.01	0	0	0
Graduate certificate	0	0	0	0.002	0.01	0.02
Master's degree	0	0	0	0.01	0.04	0.06
Doctoral degree	0	0	0	0.003	0.01	0
First professional degree	0	0	0	0.001	0.003	0
<i>B. CIP code categories</i>						
Arts and humanities	0.24	0.23	0.19	0.13	0.24	0.19
Education and public service	0.14	0.20	0.23	0.28	0.34	0.27
Agriculture, trades, services	0.20	0.20	0.21	0.06	0.09	0.11
Business, social science, law	0.12	0.16	0.18	0.18	0.17	0.22
STEM and allied health	0.31	0.21	0.20	0.34	0.16	0.22
<i>C. Performance on metrics</i>						
Net earnings premium	\$14,863	\$6,480	\$811	\$17,323	\$1,159	-\$3,477
Earnings	\$36,627	\$26,175	\$20,513	\$63,902	\$44,776	\$40,194
OOP costs	\$30,704	\$15,320	\$16,443	\$51,753	\$56,952	\$61,993
Fails NEP metric	0.09	0.22	0.56	0.15	0.47	0.62
Repayment rate	0.13	-0.04	-0.11	0.12	-0.05	-0.14
Balance at repayment (\$1m)	1.01	1.09	0.36	3.03	2.66	0.76
Balance at 3 years (\$1m)	0.89	1.12	0.40	2.65	2.77	0.86
Fails LRR metric	0	1	1	0	1	1
<i>D. Other characteristics</i>						
Av. exiters	147	190	110	107	103	73
Av. completers	101	80	39	106	64	38
Median debt	\$19,921	\$20,252	\$26,153	\$51,753	\$56,952	\$61,993
Total programs	25,503	10,976	260	6,179	3,721	63
Total exiters (1m)	4.105	2.187	0.029	0.821	0.414	0.005

Table A9: Characteristics of Schools with All Programs Missing Accountability Metrics

	(1) All programs missing metrics	(2) All schools
Control and predominant degree		
Public institutions		
Certificate	0.14	0.11
Associate degree	0.08	0.16
Bachelor's degree	0.01	0.14
Graduate only	<0.01	0
Nonprofit institutions		
Certificate	0.07	0.02
Associate degree	0.04	0.02
Bachelor's degree	0.19	0.24
Graduate only	0.08	0.00
For-profit institutions		
Certificate	0.34	0.27
Associate degree	0.02	0.03
Bachelor's degree	0.01	0.01
Graduate only	0.01	0.00
HBCUs	0.02	0.02
MSIs	0.12	0.14
Undergraduate outcomes		
% with earnings > \$25k @ 10 years	0.53	0.65
% paying down \$1 student loan debt @ 3 years	0.45	0.50
% paying down \$1 student loan debt @ 7 years	0.53	0.59
Cohort default rate @ 3 years	0.12	0.10
Institutional finances		
Tuition/FTE	\$11,100	\$10,441
Instructional expenditures/FTE	\$10,240	\$8,242
Institutional accountability		
Loan repayment rate	0.05	0.07
Negative institutional LRR	0.39	0.23

Notes: The column 1 sample includes institutions that either do not have any programs with a nonmissing net earnings premium (NEP) or loan repayment rate or do not have any programs with a nonmissing NEP and do not participate in federal loan programs.

Table A.10: Percent of Enrollment in Programs that are Failing by Field and Credential Level

	(1) Undergrad. certificate	(2) Associate degree	(3) Bachelor's degree	(4) Grad. certificate	(5) Master's degree	(6) Doctoral degree	(7) First prof. degree
Agriculture	0	0	0.003		0		
Nat Resources	0	0	0.002		0.104		
Architecture		0	0		0.005	0	0
Area Studies	0		0		0		
Communication	0.088	0.386	0.020		0.363	0	
Comm Tech	0.494	0.497	0.231		0.301		
CIS	0.027	0.010	0	0.183	0.091	0	
Services	0.381	0.102	0		0		
Education	0.520	0.614	0.015	0.034	0.116	0	0.567
Engineering	0	0	0	0	0.003	0	
Engineering Tech	0.002	0.006	0		0.003		
Foreign Lang	0	1	0.004		0.104		
Consumer Sci	0.559	0.603	0.018	1	0.425	1	
Law	0.183	0.177	0	0.645	0.264	0.249	0.270
English	0.048	0	0.012	0	0.267	0	
Liberal Arts/GS	0.121	0.156	0.016	0	0.017		1
Library Sci			0	0	0.131		0
Biology	0	0.275	0.001	0.348	0.169	0	0
Math/Stat			0		0		
Military Tech		0	0				
Interdisc.	0	0.029	0.008	0.415	0.092	0.292	
Parks/Rec	0.206	0.124	0.005		0.221		
Philosophy		0	0		0.171	0	
Theology	0	0	0.030	0	0.536	0	0.185
Physical Sci		0	0.002		0	0	
Science Tech	0	0.277	0		0		
Psych	0	0.064	0.007	0.434	0.369	0	0
Protective Svc	0.040	0.022	0.009		0.341	0	
Public Admin	0	0.263	0.014	0	0.229	0	0
Social Sci	0	0.083	0	0	0.231	0	0
Construction	0.018	0.006	0				
Mechanic Tech	0.057	0.015	0				
Precision Prod	0.024	0.005					
Transportation	0	0	0		0		
Arts	0.296	0.299	0.017	0	0.553	0.454	
Allied Health	0.106	0.010	0.0001	0.155	0.161	0.020	0.137
Business	0.134	0.053	0.002	0.400	0.214	0.058	0
History	0		0.003		0.313	0	

Notes: Each cell shows the share of all students in the field by credential level combination that are estimated to have exited from failing programs. Failing programs are those with a negative NEP and negative LRR or are in schools that do not participate in federal loan programs and have a negative NEP. CIS = computer and information sciences. GS = general studies. Cells that do not contain numbers are field by credential level combinations for which there are either no programs or there are no programs with both metrics available.

Table A.11: Percent of Enrollment in Programs that are Failing by Field, Credential Level, and Sector

A. Undergraduate Programs

	<u>Undergrad certificate</u>			<u>Associate degree</u>			<u>Bachelor's degree</u>		
	Public	Nonprofit	For-profit	Public	Nonprofit	For-profit	Public	Nonprofit	For-profit
Agriculture	0	0	0	0	0		0.003	0	
Nat Resources	0			0			0.002	0	0
Architecture				0			0	0	0
Area Studies	0						0	0	
Communication	0		0.160	0.423	0		0.014	0.043	0
Comm Tech			0.494	0.409	0	0.727	0	0	0.613
CIS	0	0	0.051	0	0.043	0.020	0	0	0
Services	0.486	0.668	0.346	0.113	0	0.272	0	0	0
Education	0.554		0	0.590	0.664	0.773	0.020	0.003	0
Engineering	0		0	0		0	0	0	0
Engineering Tech	0.004	0	0	0.007	0	0	0	0	0
Foreign Lang	0	0		1			0.005	0	0
Consumer Sci	0.572	0		0.437	1	0.759	0.015	0	0.197
Law	0.272	0	0.280	0	0.670	0.033	0	0	0
English	0.026	1	0			0	0.003	0.011	0.277
Liberal Arts/GS	0.122	0		0.157	0.160	0	0.011	0.036	0
Library Sci									0
Biology	0	0		0.275			0	0.006	0
Math/Stat							0	0	
Military Tech				0			0	0	
Interdisc.	0			0.035	0	0	0.002	0.037	0
Parks/Rec	0.278	0	0.106	0.434	0	0	0	0.026	0
Philosophy					0		0	0	
Theology		0			0			0.031	0
Physical Sci				0			0.002	0	
Science Tech			0	0.279		0	0	0	
Psych	0	0		0.085	0		0.006	0.013	0
Protective Svc	0.028	0	0.714	0.008	0	0.137	0.008	0.016	0.002
Public Admin	0			0.316	0.185	0	0.013	0.026	0
Social Sci	0	0		0.083			0	0	0
Construction	0.001	0.008	0.076	0	0	0.070	0		
Mechanic Tech	0.055	0.063	0.058	0.015	0	0.030	0	0	
Precision Prod	0.018	0.095	0.007	0.005	0	0			
Transportation	0	0	0	0	0		0	0	
Arts	0.328	0.075	0.221	0.285	0.490	0.238	0.014	0.014	0.052
Allied Health	0.048	0.243	0.143	0.001	0.015	0.053	0	0	0.001
Business	0.133	0	0.165	0.028	0.123	0.134	0.002	0.005	0.0004
History	0						0.004	0	0

B. Graduate Programs

	Graduate certificate			Master's degree			Doctoral degree			First professional degree		
	Public	Nonprofit	For-profit	Public	Nonprofit	For-profit	Public	Nonprofit	For-profit	Public	Nonprofit	For-profit
Agriculture				0								
Nat Resources				0.042	0.264	0						
Architecture				0	0.016	0	0			0	0	
Area Studies				0	0							
Communication				0.338	0.351	0.551	0					
Comm Tech					0.643	0						
CIS	0	0	0.445	0.086	0	0.297		0	0			
Services					0							
Education	0	0.010	0.318	0.106	0.068	0.384	0	0	0	0	0	1
Engineering	0			0.004	0		0	0				
Engineering Tech				0	0.012	0						
Foreign Lang				0.239	0							
Consumer Sci		1		0.255	0.352	1					1	
Law	1	0.363	1	0.667	0.071	0	0.057	0.476		0.171	0.319	0.895
English		0		0.369	0.159	1	0					
Liberal Arts/GS	0	0		0	0.040						1	
Library Sci	0			0.145	0.054					0	0	
Biology	0.554	0		0.075	0.275		0	0		0		
Math/Stat				0	0							
Military Tech												
Interdisc.	0	0	0.764	0.105	0.070	0.087		0.292				
Parks/Rec				0.253	0.174	0						
Philosophy					0.171			0				
Theology		0			0.548	0		0			0.185	
Physical Sci				0			0					
Science Tech					0							
Psych	0	0	1	0.353	0.256	0.763	0	0	0		0	
Protective Svc				0.364	0.148	0.636				0		
Public Admin	0	0		0.198	0.279	0.281				0	0	
Social Sci	0	0		0.297	0.144	0.666	0			0		
Construction												
Mechanic Tech												
Precision Prod												
Transportation					0							
Arts		0		0.418	0.547	0.891	0.459	0.438				
Allied Health	0.074	0.116	0.540	0.085	0.084	0.559	0	0.061	0	0.058	0.234	0.249
Business	0.227	0	0.801	0.058	0.071	0.873	0	0	0.073	0	0	
History				0.136	0.608	0	0					

Notes: Each cell shows the share of all students in the field by credential level by institutional control combination that are estimated to have exited from failing programs. Failing programs are those with a negative NEP and negative LRR or are in schools that do not participate in federal loan programs and have a negative NEP. CIS = computer and information sciences. GS = general studies. Cells that do not contain numbers are either field by credential level by sector combinations for which there are no programs or there are no programs for which both metrics available.

Table A.12: Enrollment in Failing Programs with State versus National Counterfactual Earnings Threshold, Undergraduate Programs

	Median HS earnings	All institutions				Public institutions				Nonprofit institutions				For-profit institutions			
		% in failing programs with threshold at:			Number of exiters	% in failing programs with threshold at:			Number of exiters	% in failing programs with threshold at:			Number of exiters	% in failing programs with threshold at:			Number of exiters
		State level	Natl level	Diff.		State level	Natl level	Diff.		State level	Natl level	Diff.		State level	Natl level	Diff.	
Mississippi	\$13,337	0.09	0.33	0.24	65,289	0.07	0.33	0.26	58,060	0	0.10	0.10	2,060	0.30	0.36	0.06	5,169
District of Columbia	\$13,761	0.06	0.19	0.13	10,893	0	0	0	350	0	0.02	0.02	8,660	0.35	1.00	0.65	1,883
West Virginia	\$15,396	0.05	0.08	0.04	41,855	0.01	0.05	0.04	25,748	0	0	0	877	0.11	0.15	0.05	15,230
Alabama	\$15,658	0.01	0.16	0.15	75,462	0.01	0.16	0.15	60,388	0	0.04	0.04	7,393	0.08	0.32	0.24	7,681
New Mexico	\$15,711	0.09	0.12	0.03	25,484	0.02	0.07	0.05	22,137	0	0	0	101	0.57	0.42	-0.15	3,246
Louisiana	\$16,025	0.05	0.20	0.16	93,140	0.05	0.14	0.09	71,198	0	0.27	0.27	6,158	0.05	0.44	0.39	15,784
Michigan	\$16,758	0.02	0.04	0.02	257,791	0.01	0.03	0.02	199,008	0.07	0.07	0	34,723	0.06	0.09	0.03	24,060
Tennessee	\$16,758	0.03	0.09	0.06	101,626	0.01	0.06	0.05	81,030	0.02	0.02	0	11,781	0.20	0.41	0.22	8,815
Arkansas	\$16,936	0.05	0.07	0.02	57,904	0.05	0.09	0.03	33,743	0	0	0	21,083	0.38	0.38	0	3,078
Kentucky	\$17,419	0.08	0.14	0.06	65,664	0.06	0.12	0.06	51,461	0.11	0.14	0.03	5,345	0.16	0.26	0.11	8,858
South Carolina	\$17,571	0.05	0.12	0.07	102,704	0.04	0.11	0.07	91,915	0.04	0.11	0.07	7,584	0.37	0.45	0.08	3,205
North Carolina	\$17,783	0.09	0.15	0.06	167,851	0.08	0.14	0.07	137,292	0.07	0.07	0.004	22,516	0.38	0.41	0.03	8,043
Maine	\$17,986	0.05	0.05	0	30,641	0.06	0.06	0	26,750	0	0	0	2,988	0	0	0	903
New York	\$17,986	0.03	0.04	0.003	375,624	0.01	0.02	0.002	246,272	0.01	0.01	0	87,090	0.20	0.21	0.02	42,262
Georgia	\$18,000	0.15	0.19	0.04	191,947	0.16	0.21	0.04	157,960	0.04	0.09	0.05	13,429	0.15	0.17	0.02	20,558
Florida	\$18,853	0.14	0.16	0.02	481,008	0.09	0.09	0	275,528	0.20	0.27	0.07	141,866	0.22	0.23	0.003	63,614
Ohio	\$18,853	0.05	0.09	0.04	269,120	0.05	0.09	0.05	208,334	0.01	0.01	0	34,373	0.14	0.16	0.02	26,413
Arizona	\$19,000	0.08	0.08	0	236,362	0.13	0.13	0	128,044	0.14	0.14	0	1,270	0.03	0.03	0	107,048
Oklahoma	\$19,000	0.07	0.08	0.01	76,592	0.05	0.06	0.01	51,871	0.24	0.25	0.02	9,442	0.03	0.03	0	15,279
Illinois	\$19,053	0.04	0.04	0	165,127	0.03	0.03	0	96,040	0.02	0.02	0	37,144	0.10	0.10	0	31,943
Oregon	\$19,167	0.27	0.27	0.001	127,040	0.29	0.29	0.001	117,153	0	0	0	5,471	0.21	0.21	0	4,416
National	\$19,400	0.07	0.08	0.01	6,348,507	0.06	0.07	0.01	4,545,425	0.05	0.07	0.01	935,881	0.13	0.14	0.005	867,201
Texas	\$19,468	0.08	0.08	0.002	503,423	0.05	0.05	0	404,882	0.12	0.16	0.03	30,481	0.23	0.23	0.001	68,060
Kansas	\$19,582	0.03	0.03	0	71,636	0.02	0.02	0	60,869	0	0	0	3,548	0.10	0.10	0	7,219
Idaho	\$19,688	0.08	0.03	-0.05	45,476	0	0	0	30,934	0	0	0	11,328	0.41	0.41	0	3,214
Pennsylvania	\$19,900	0.05	0.04	-0.01	286,021	0.03	0.02	-0.01	198,788	0.04	0.04	0	65,114	0.20	0.18	-0.01	22,119
California	\$20,000	0.07	0.06	-0.01	389,384	0.03	0.03	-0.001	196,803	0.01	0.01	0	57,321	0.14	0.11	-0.03	135,260
Missouri	\$20,102	0.14	0.10	-0.04	120,882	0.20	0.14	-0.06	81,511	0	0	0	30,650	0.11	0.11	0	8,721
New Jersey	\$20,102	0.05	0.03	-0.02	127,251	0.06	0.03	-0.03	89,469	0	0	0	10,631	0.03	0.03	0	27,151
Virginia	\$20,112	0.06	0.06	-0.003	210,270	0.06	0.06	-0.003	139,711	0.02	0.02	0	50,606	0.14	0.13	-0.01	19,953
Delaware	\$20,493	0.03	0.03	0	17,312	0	0	0	8,045	0	0	0	3,197	0.10	0.10	0	6,070
Indiana	\$20,493	0.04	0.04	-0.002	211,016	0.03	0.03	-0.003	156,711	0	0	0	19,018	0.08	0.08	0	35,287
Montana	\$20,947	0.07	0.07	0	12,771	0.08	0.08	0	11,777	0	0	0	547	0	0	0	447
Rhode Island	\$21,000	0.01	0	-0.01	25,492	0.02	0	-0.02	15,435	0	0	0	9,891	0	0	0	166
Alaska	\$21,170	0.005	0.005	0	8,480	0	0	0	3,646	0	0	0	0	0.01	0.01	0	4,834
Connecticut	\$21,170	0.02	0.005	-0.01	51,999	0.02	0.001	-0.02	21,013	0.02	0.02	-0.002	11,655	0.01	0	-0.01	19,331
Maryland	\$21,170	0.06	0.03	-0.03	95,087	0.04	0.02	-0.03	80,891	0	0	0	6,099	0.21	0.15	-0.06	8,097
Vermont	\$21,170	0	0	0	12,121	0	0	0	9,507	0	0	0	2,425	0	0	0	189
Nevada	\$21,312	0.17	0.06	-0.11	33,987	0.15	0.00	-0.15	25,919	0	0	0	1,907	0.33	0.33	0	6,161
Massachusetts	\$22,000	0.01	0.01	-0.002	130,808	0.01	0.01	-0.004	81,214	0	0	0	4,001	0.02	0.02	0	9,583
Wisconsin	\$22,030	0.02	0.01	-0.01	157,655	0.01	0.00	-0.01	137,405	0.005	0	-0.005	13,071	0.17	0.17	0	7,179
Nebraska	\$22,218	0.04	0.03	-0.01	53,894	0.04	0.02	-0.02	43,497	0	0	0	7,911	0.12	0.12	0	2,486
South Dakota	\$22,229	0.10	0	-0.10	25,720	0	0	0	18,816	0	0	0	1,137	0	0	0	5,767
Colorado	\$22,542	0.09	0.06	-0.03	137,091	0.07	0.07	-0.01	107,751	0.10	0.00	-0.10	6,860	0.16	0.04	-0.12	22,480
Washington	\$22,542	0.08	0.04	-0.04	92,589	0.10	0.04	-0.05	74,795	0	0	0	11,606	0.02	0.02	0	6,188
Iowa	\$23,259	0.14	0.05	-0.10	152,743	0.16	0.05	-0.11	138,679	0	0	0	12,107	0.07	0.07	0	1,957
Utah	\$23,276	0.03	0.02	-0.01	81,961	0.01	0.01	-0.01	51,183	0.07	0.05	-0.02	26,030	0.05	0.05	0	4,748
New Hampshire	\$24,090	0	0	0	41,245	0	0	0	16,462	0	0	0	2,332	0	0	0	1,451
Hawaii	\$24,346	0.18	0.03	-0.15	15,695	0.21	0.04	-0.18	13,029	0	0	0	1,926	0	0	0	740
Minnesota	\$25,000	0.06	0.0003	-0.06	194,472	0.07	0.00	-0.07	164,357	0.01	0.004	-0.003	15,850	0.02	0	-0.02	14,265
Wyoming	\$26,184	0	0	0	5,760	0	0	0	5,485	0	0	0	0	0	0	0	275
North Dakota	\$28,690	0	0	0	17,142	0	0	0	16,559	0	0	0	268	0	0	0	315

Table A.13: Enrollment in Failing Programs with State versus National Counterfactual Earnings Threshold, Graduate Programs

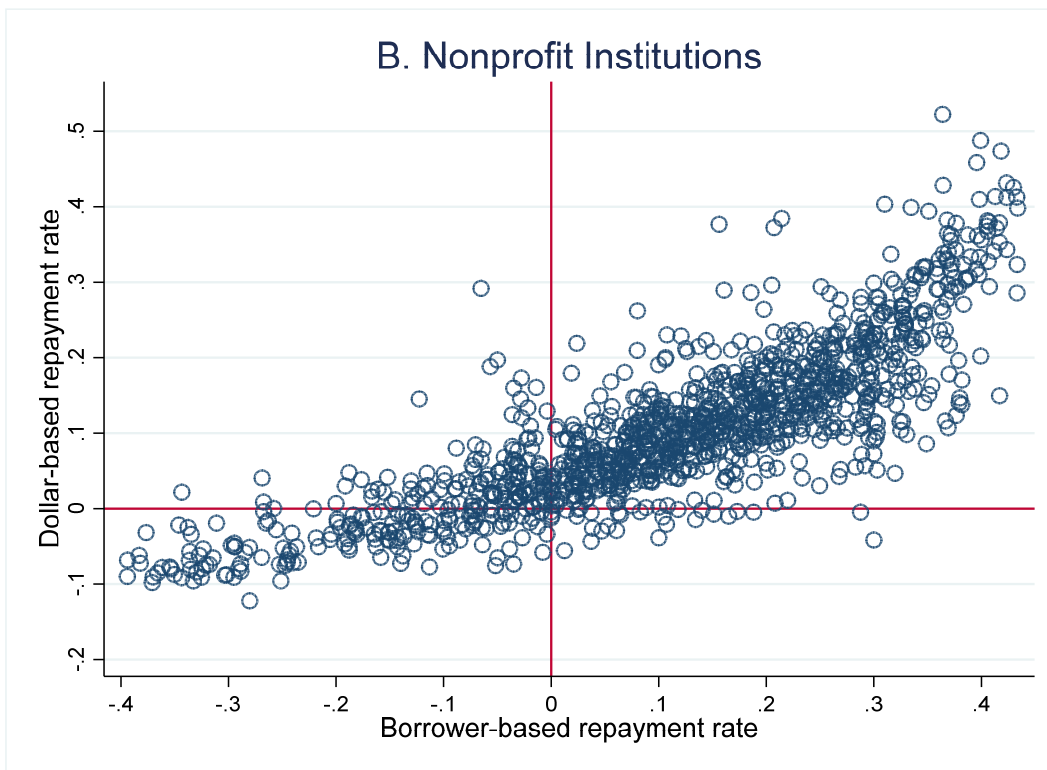
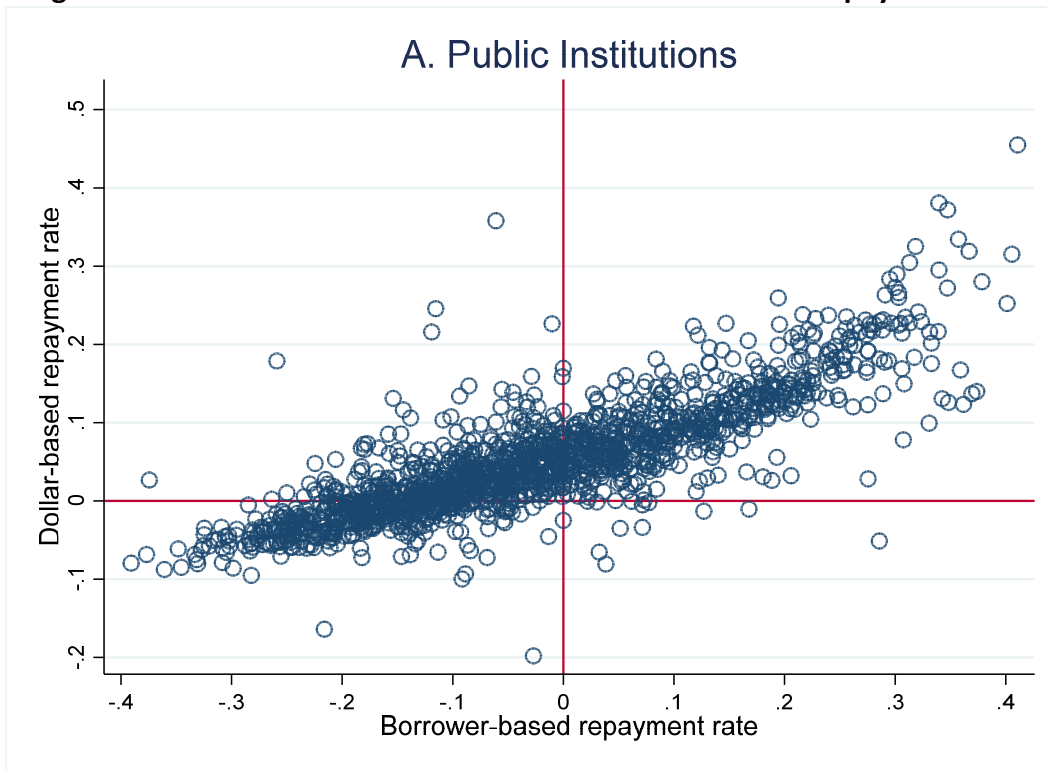
	Median BA earnings	Median BA earnings (by CIP)	All institutions				Public institutions				Nonprofit institutions				For-profit institutions			
			% in failing programs w/ threshold at:			Number of exiters	% in failing programs w/ threshold at:			Number of exiters	% in failing programs w/ threshold at:			Number of exiters	% in failing programs w/ threshold at:			Number of exiters
			State x CIP	Natl level	Diff.		State x CIP	Natl level	Diff.		State x CIP	Natl level	Diff.		State x CIP	Natl level	Diff.	
Idaho	\$32,000	\$31,520	0	0.09	0.09	4,440	0	0.07	0.07	4,092	0	0.34	0.34	348				
New Mexico	\$31,755	\$31,749	0.06	0.39	0.33	3,236	0.07	0.34	0	2,921	0	0.86	0.86	315				
West Virginia	\$33,000	\$33,682	0.05	0.16	0.10	12,119	0.03	0.20	0.17	5,260	0	0	0	355	0.08	0.13	0.05	6,504
Mississippi	\$32,788	\$34,300	0.17	0.34	0.17	8,962	0.21	0.37	0.16	5,302	0.11	0.29	0.18	3,660				
Oregon	\$35,611	\$34,495	0.04	0.14	0.10	18,248	0.02	0.23	0.21	7,633	0.06	0.08	0.02	10615				
Utah	\$33,000	\$34,780	0.19	0.18	-0.02	22,712	0	0	0	4,278	0.06	0.03	-0.03	14664	0.96	0.96	0	3,770
Montana	\$33,000	\$35,008	0.05	0.05	0	1,886	0.06	0.06	0	1,816	0	0	0	70				
Arkansas	\$36,400	\$35,663	0.06	0.12	0.07	10,611	0.06	0.13	0.07	9,701	0.07	0.07	0	910				
Florida	\$35,862	\$36,559	0.14	0.26	0.12	56,422	0.04	0.18	0.14	24,688	0.16	0.26	0.10	28,228	0.74	0.88	0.14	3,506
Kentucky	\$36,658	\$36,613	0.15	0.25	0.10	16,505	0.15	0.28	0.13	9,545	0.09	0.18	0.09	6,302	0.86	0.52	-0.35	658
Tennessee	\$36,658	\$36,918	0.10	0.19	0.09	17,931	0.13	0.20	0.07	9,575	0.07	0.17	0.11	8125	0	0	0	231
South Carolina	\$36,000	\$37,359	0.07	0.21	0.14	8,574	0.03	0.18	0.15	6,439	0.09	0.19	0.10	1856	1	1	0	279
Vermont	\$36,658	\$37,967	0.04	0.06	0.02	3,545	0	0.06	0.06	697	0.05	0.06	0.01	2848				
Alabama	\$37,029	\$37,992	0.17	0.32	0.15	18,173	0.15	0.33	0.18	15,345	0.26	0.26	0	1,088	0.24	0.24	0	1,740
Hawaii	\$40,000	\$38,410	0	0.02	0.02	2,234	0	0	0	1,607	0	0.08	0.08	627				
Georgia	\$38,636	\$38,561	0.21	0.26	0.05	30,426	0.12	0.18	0.06	19,707	0.39	0.41	0.02	10,082	0.32	0.32	0	637
Oklahoma	\$36,867	\$38,649	0.23	0.33	0.11	8,549	0.13	0.29	0.15	5,978	0.44	0.44	0	2571				
North Carolina	\$37,048	\$39,485	0.09	0.20	0.10	27,360	0.10	0.26	0.16	17,404	0.12	0.12	0	7203	0	0	0	2,753
Kansas	\$40,000	\$39,718	0.05	0.07	0.02	9,910	0.05	0.08	0.03	6,761	0.07	0.07	0	2,208	0	0	0	941
Indiana	\$39,141	\$39,737	0.04	0.07	0.03	22,765	0.04	0.05	0.01	15,861	0.06	0.13	0.07	6,904				
Louisiana	\$39,276	\$39,895	0.36	0.40	0.04	11,319	0.38	0.39	0.005	8,659	0.30	0.45	0.15	2,660				
Missouri	\$38,885	\$40,288	0.08	0.17	0.09	32,221	0.05	0.16	0.11	11,995	0.10	0.18	0.08	20,200	0	0	0	26
South Dakota	\$39,800	\$40,351	0.24	0.27	0.03	2,720	0.09	0.13	0.04	1,817	0	0	0	401	1	1	0	502
Wyoming	\$39,165	\$40,750	0	0	0	308	0	0	0	308	0	0	0	0	0	0	0	315
Michigan	\$39,694	\$40,970	0.16	0.22	0.05	36,437	0.09	0.20	0.11	28,529	0.34	0.17	10.00	7,121	1	1	0	787
North Dakota	\$41,155	\$41,138	0	0	0	1,891	0	0	0	1,498	0	0	0	393				
National	\$41,282		0.18	0.18	0.004	1,252,506	0.10	0.14	0.04	563,973	0.13	0.16	0.02	527,869	0.56	0.39	-0.17	153,755
Nebraska	\$40,859	\$41,453	0.40	0.22	-0.18	15,699	0.57	0.29	-0.27	10,511	0.08	0.08	0	5,188				
Maine	\$36,658	\$41,530	0.47	0.56	0.09	7,659	0.78	0.80	0.02	4,627	0.00	0.19	0.19	3,032				
Arizona	\$40,000	\$41,747	0.41	0.38	-0.03	57,128	0.05	0.08	0.03	15,724	0.34	0.34	0	521	0.54	0.50	-0.05	40,883
California	\$42,340	\$42,679	0.14	0.10	-0.04	111,533	0.03	0.02	-0.01	38,433	0.09	0.09	-0.001	60,082	0.69	0.40	-0.28	13,018
Colorado	\$41,895	\$42,685	0.18	0.13	-0.05	26,538	0.02	0.03	0.01	15,124	0.09	0.09	0	6,862	0.82	0.53	-0.29	4,552
Nevada	\$38,000	\$42,845	0.61	0	-0.61	7,415	0	0	0	2,338	0	0	0	517	1	0	-1	4,560
Virginia	\$44,457	\$43,203	0.38	0.42	0.04	54,127	0.08	0.06	-0.02	16,690	0.52	0.61	0.09	35093	0.48	0.09	-0.39	2,344
Ohio	\$40,985	\$43,206	0.15	0.17	0.02	41,477	0.17	0.19	0.02	27,164	0.15	0.16	0.02	10690	0	0	0	3,623
Iowa	\$40,985	\$43,354	0.42	0.36	-0.06	17,017	0.50	0.42	-0.08	12,103	0.20	0.20	0	4,914				
Rhode Island	\$42,319	\$43,940	0	0	0	3,190	0	0	0	898	0	0	0	2292				
Delaware	\$42,000	\$43,948	0.08	0.11	0.03	4,172	0	0.09	0.09	728	0.10	0.11	0.02	3,444				
Pennsylvania	\$41,895	\$44,134	0.08	0.10	0.02	55,607	0.06	0.09	0.03	24,617	0.08	0.08	0.004	30395	1	1	0	595
Wisconsin	\$42,340	\$44,136	0.06	0.08	0.01	15,063	0	0.04	0.04	7,288	0.13	0.11	-0.01	7775				
New Hampshire	\$41,895	\$44,233	0.05	0.22	0.17	21,785	0	0	0	1,627	0.06	0.24	0.18	20,158				
Texas	\$43,399	\$44,666	0.14	0.14	-0.01	67,317	0.12	0.12	0.004	53,369	0.21	0.17	-0.04	13317	0.85	0.85	0	631
Minnesota	\$45,084	\$44,962	0.34	0.24	-0.09	56,823	0	0	0	6,216	0.03	0.07	0.03	8,038	0.44	0.31	-0.13	42,569
Alaska	\$45,000	\$45,105	0	0	0	927	0	0	0	927								
New York	\$46,800	\$45,113	0.10	0.08	-0.02	89,457	0.06	0.05	-0.01	20,529	0.11	0.09	-0.02	68,295	0.58	0.22	-0.36	633
Connecticut	\$47,132	\$45,193	0.05	0.03	-0.01	14,388	0.004	0.004	0	6,655	0.08	0.05	-0.03	6,516	0.10	0.10	0	1,217
Illinois	\$43,399	\$45,442	0.29	0.14	-0.15	61,080	0.13	0.14	0.01	15,663	0.09	0.11	0.01	30,051	0.83	0.19	-0.64	15,366
New Jersey	\$47,132	\$46,619	0.05	0.05	0	24,524	0.01	0.01	0	15,959	0.13	0.13	0	7,450	0	0	0	1,115
Washington	\$44,513	\$47,000	0.05	0.05	0	15,526	0	0	0	10,309	0.14	0.14	0	5217				
Massachusetts	\$48,600	\$47,863	0.05	0.05	0	45,399	0.01	0.01	0	9,693	0.06	0.06	-0.001	35,706				
Maryland	\$47,609	\$50,614	0.10	0.03	-0.06	27,585	0.13	0.04	-0.09	19,365	0.01	0.01	0	8,220				
District of Columbia	\$57,131	\$53,245	0.40	0.35	-0.05	21,566					0.09	0.02	-0.07	14,342	1	1	0	

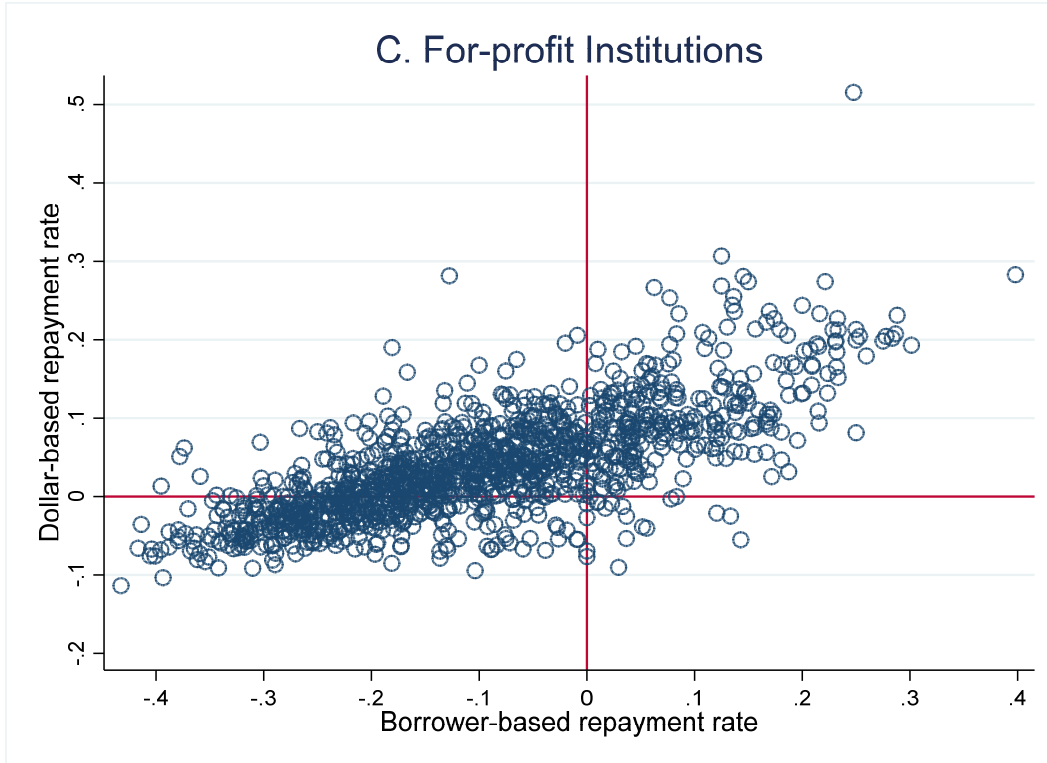
Table A.14: Failing Programs with Passing Alternatives Located in Institutions within 30 Miles

	<u>All institutions</u>		<u>Public institutions</u>		<u>Nonprofit institutions</u>		<u>For-profit institutions</u>	
	(1) Failing programs	(2) Alternatives	(3) Failing programs	(4) Alternatives	(5) Failing programs	(6) Alternatives	(7) Failing programs	(8) Alternatives
<i>A. Undergraduate students</i>								
Earnings	\$15,911	\$34,129	\$19,145	\$38,361	\$15,358	\$30,856	\$15,768	\$34,031
OOP costs	\$17,369	\$23,984	\$2,346	\$28,886	\$16,965	\$27,353	\$18,131	\$23,619
Net earnings premium	-\$4,461	\$13,461	-\$2,069	\$15,706	-\$4,783	\$10,138	-\$4,570	\$13,465
Negative net earnings premium	1	0.06	1	0.04	1	0.02	1	0.06
Median student loan debt	\$11,394	\$17,816	\$10,906	\$21,808	\$16,559	\$16,984	\$11,237	\$17,644
Average repayment rate	-0.03	0.07	-0.02	0.11	-0.06	0.03	-0.03	0.07
Negative repayment rate	1	0	1	0	1	0	1	0
Average # of programs in school								
Failing programs	1.6	0.3	1.0	0.2	1.4	0.6	1.6	0.3
Passing programs	0	10.2	0	15.6	0	6.7	0	10.1
Programs with missing metrics	2.4	14.2	28.4	10.0	1.1	12.5	1.1	14.4
Total enrollment in failing programs		70,365		5,140		3,065		62,161
Tot. net earnings loss (\$1m) per cohort		-\$1,261		-\$91		-\$46		-\$1,121
Total debt in failing progs (\$1m)		\$802		\$56		\$51		\$698
<i>B. Graduate students</i>								
Earnings	\$36,771	\$69,825	\$36,939	\$65,859	\$38,257	\$65,452	\$32,873	\$82,070
OOP costs	\$94,173	\$53,322	\$40,132	\$56,704	\$106,372	\$53,360	\$74,560	\$52,468
Net earnings premium	-\$13,763	\$23,375	-\$3,888	\$17,878	-\$12,346	\$19,862	-\$19,645	\$33,726
Negative net earnings premium	1	0.051	1	0	1	0.061	1	0.016
Median student loan debt	\$94,173	\$53,322	\$40,132	\$56,704	\$106,372	\$53,360	\$74,560	\$52,468
Average repayment rate	-0.06	0.11	-0.05	0.09	-0.05	0.10	-0.07	0.12
Negative repayment rate	1	0.13	1	0.19	1	0.15	1	0.06
Average # of programs in school								
Failing programs	1.8	0.8	1.5	1	1.4	0.9	2.3	0.6
Passing programs	0	7.2	0	23.2	0	22.1	0	18.4
Programs with missing metrics	2.9	22.0	6.3	24.5	3.3	23.0	1.0	18.9
Total enrollment in failing programs		25,877		1,590		19,875		4,412
Tot. net earnings loss (\$1m) per cohort		-\$961		-\$35		-\$640		-\$235
Total debt in failing progs (\$1m)		\$2,437		\$64		\$2,114		\$329

Notes: Failing programs are those with a negative NEP and LRR or have a negative NEP and are located in schools that do not participate in federal loan programs. This table focuses on failing programs that do not have a passing alternative program at the same level (undergraduate or graduate) in the same school but are within 30 miles of an institution with at least one passing program at the same level.

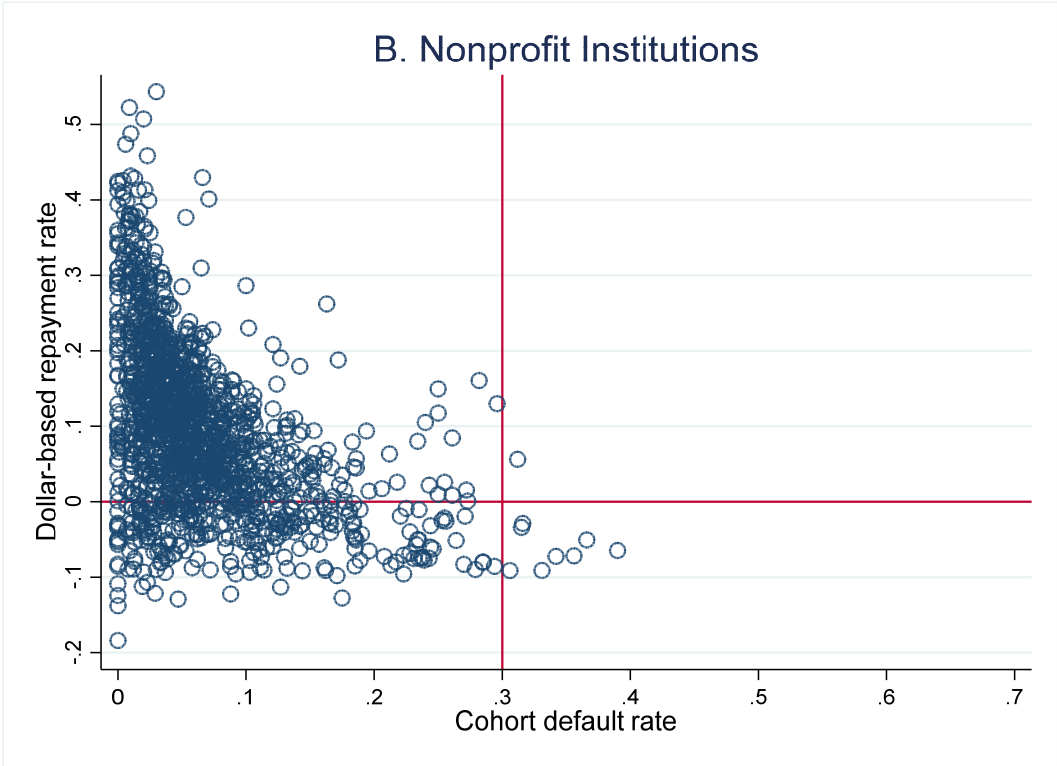
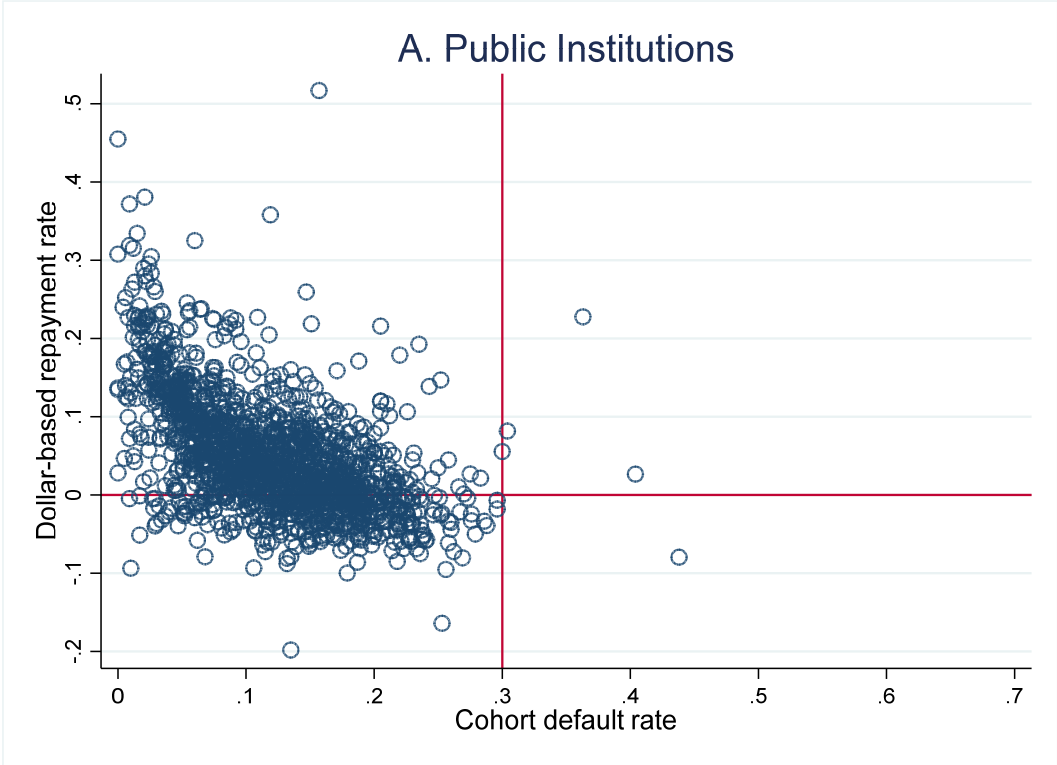
Figure A1: Dollar- versus borrower-based institutional loan repayment rates

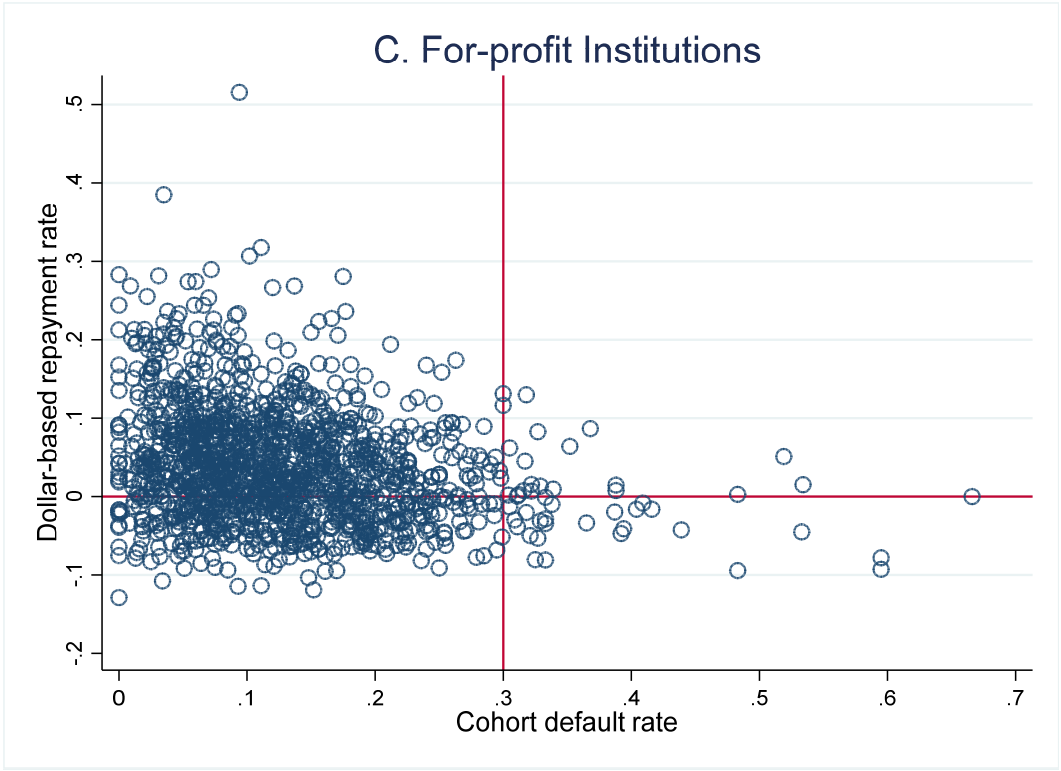




Notes: The dollar-based repayment rate is the LRR metric described in the main paper. The borrower-based repayment rate is the percentage of borrowers who reduce their loan balance by \$1 and are not in default on their loans, three years after entering repayment, obtained from the College Scorecard data. The borrower-based repayment rate is recentered at 0.50, so that negative values represent institutions where the median borrower is not reducing their balance.

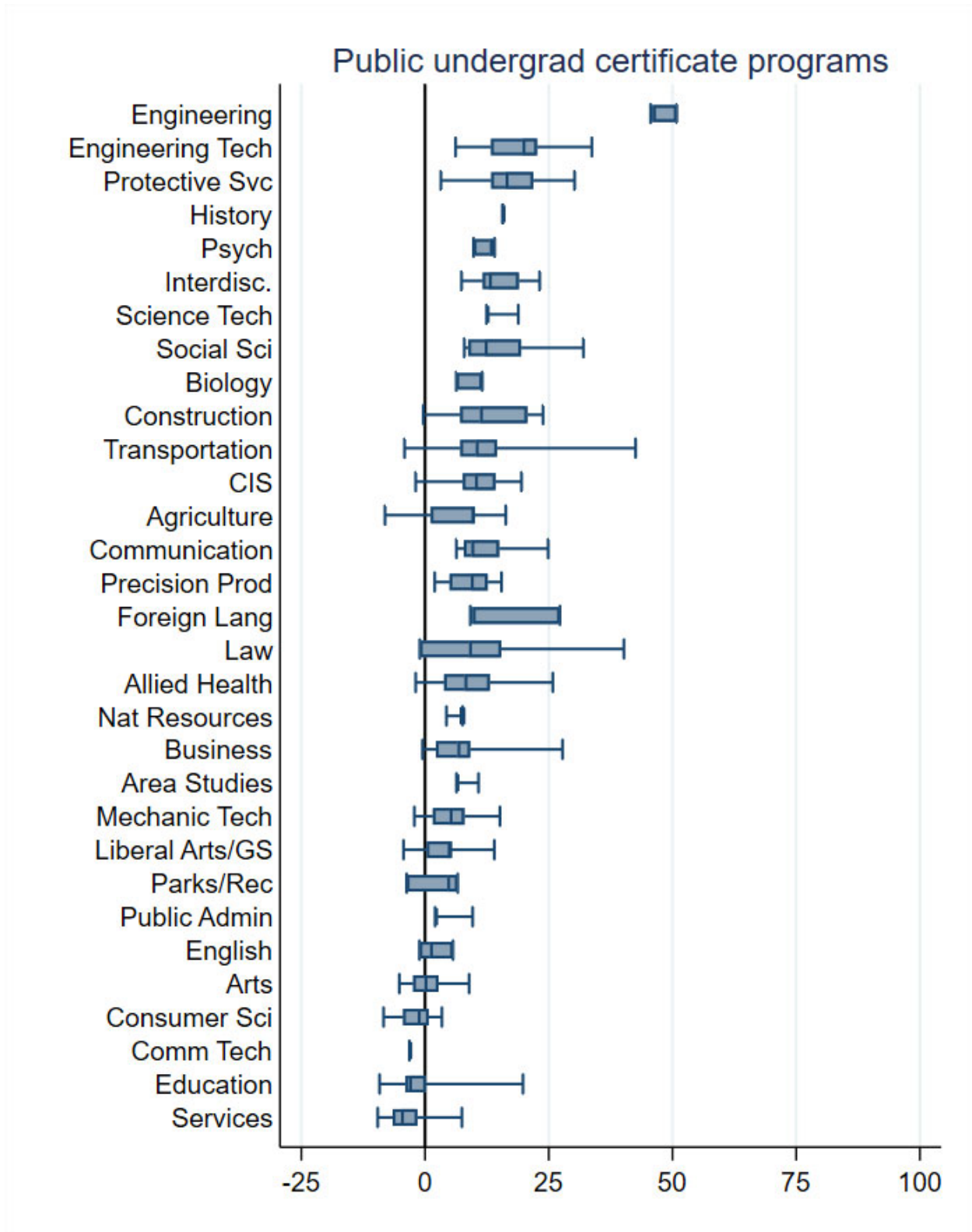
Figure A2: Dollar-based institutional loan repayment versus cohort default rates



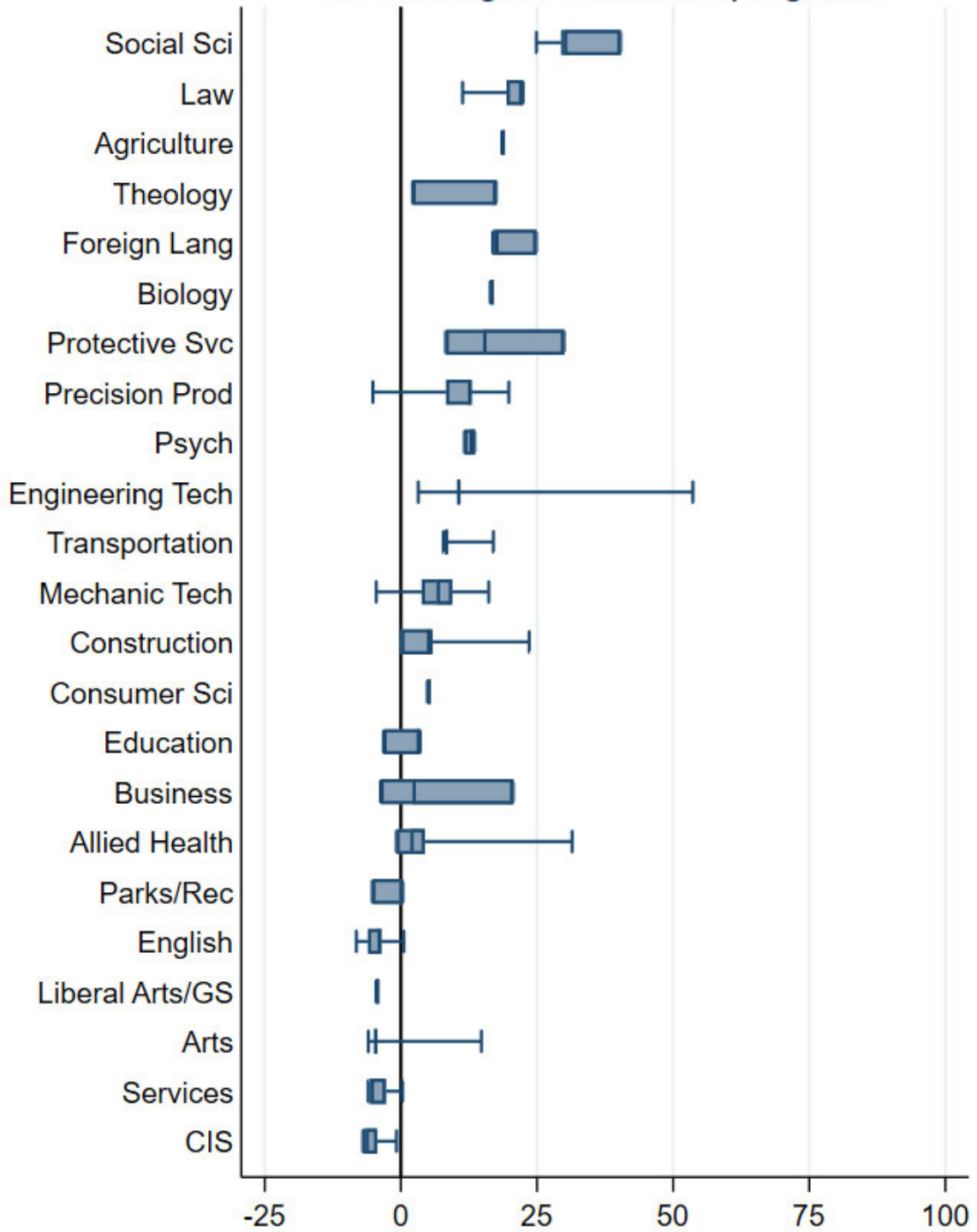


Notes: The dollar-based repayment rate is the LRR metric described in the main paper. A school's cohort default rate equals the share of borrowers that default on their student loans within 3 years of entering repayment. The vertical red line indicates one of the two thresholds that trigger CDR-linked sanctions (30%).

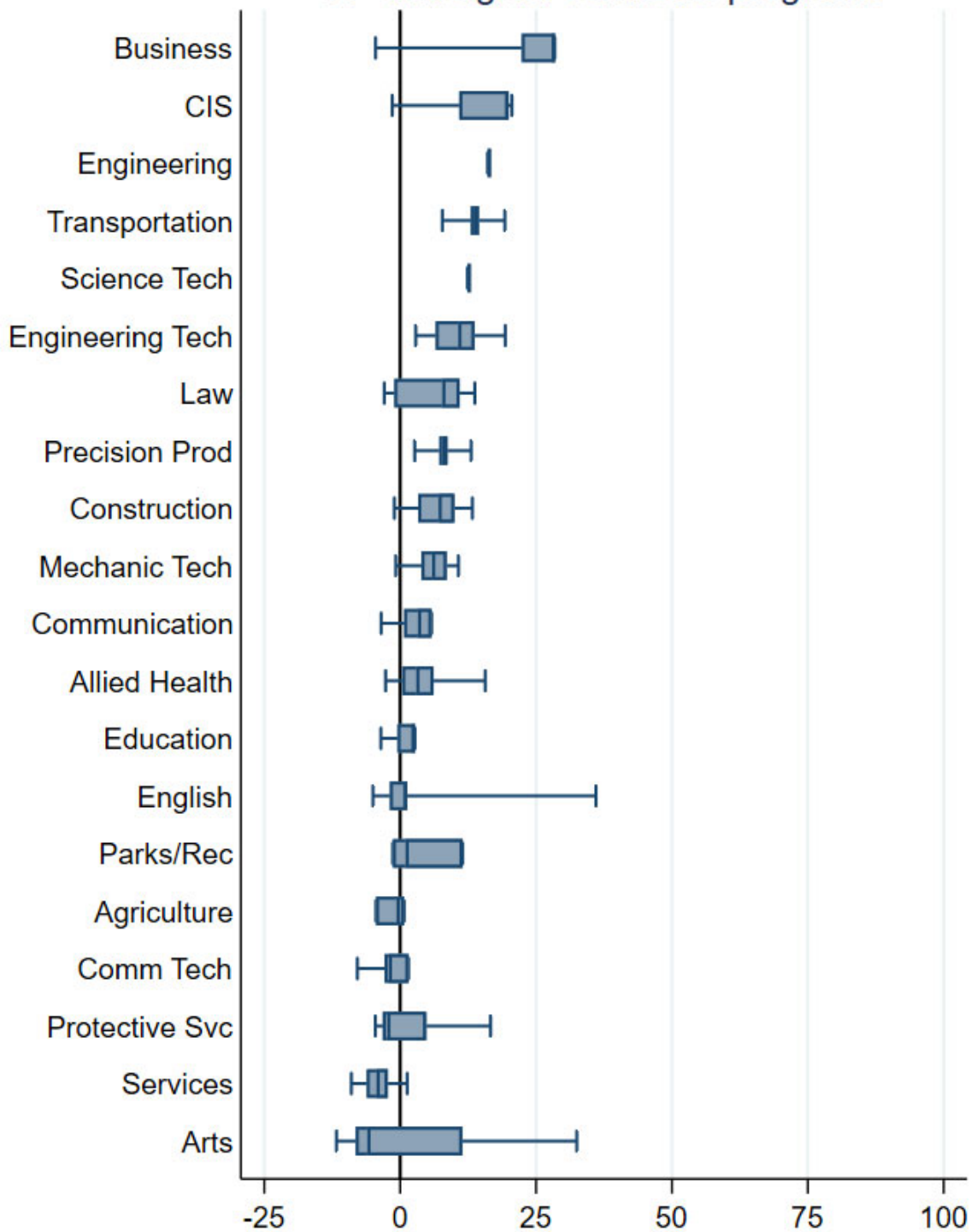
Figure A3: Net Earnings Premium Performance by Sector, Credential, and Field



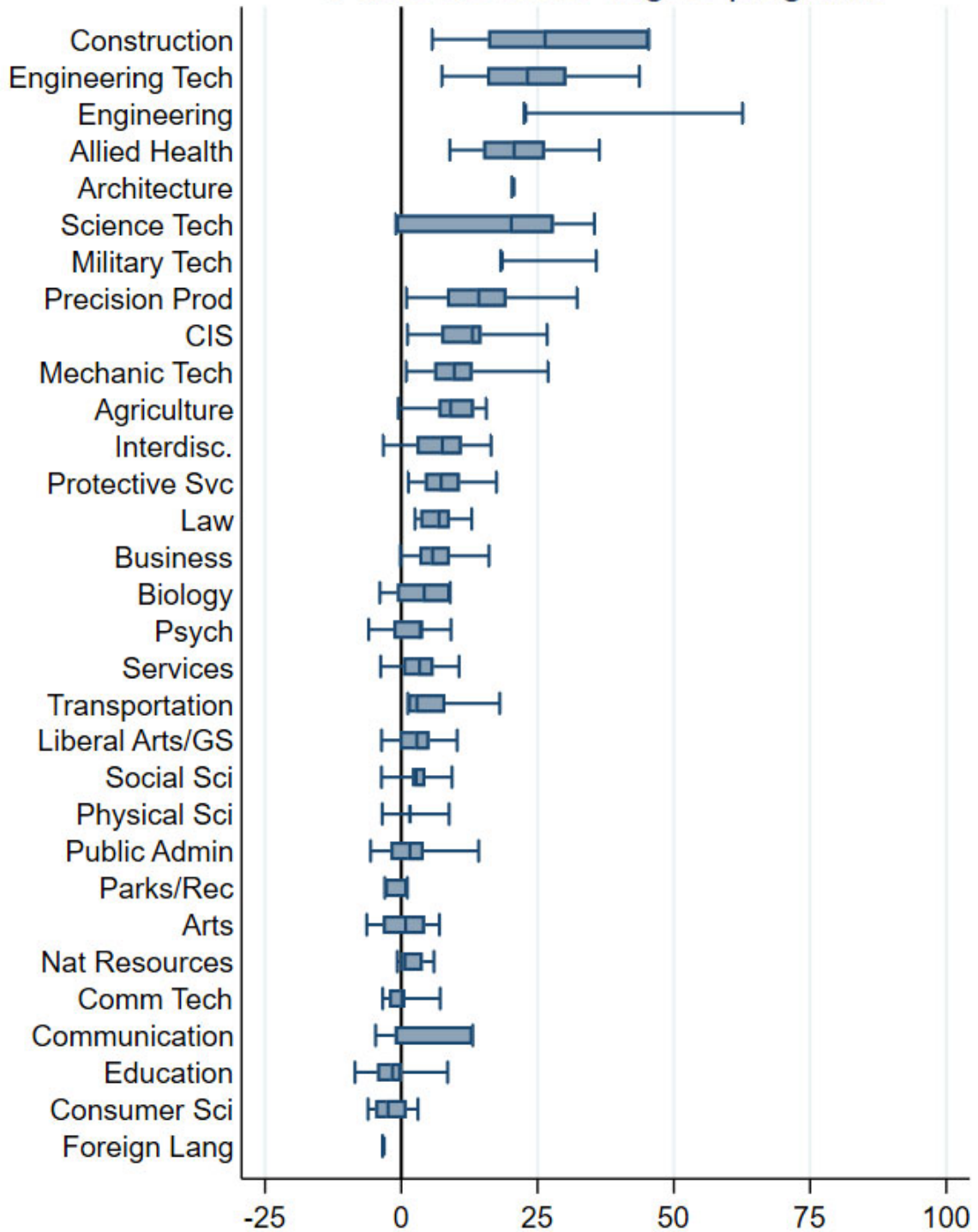
NP undergrad certificate programs



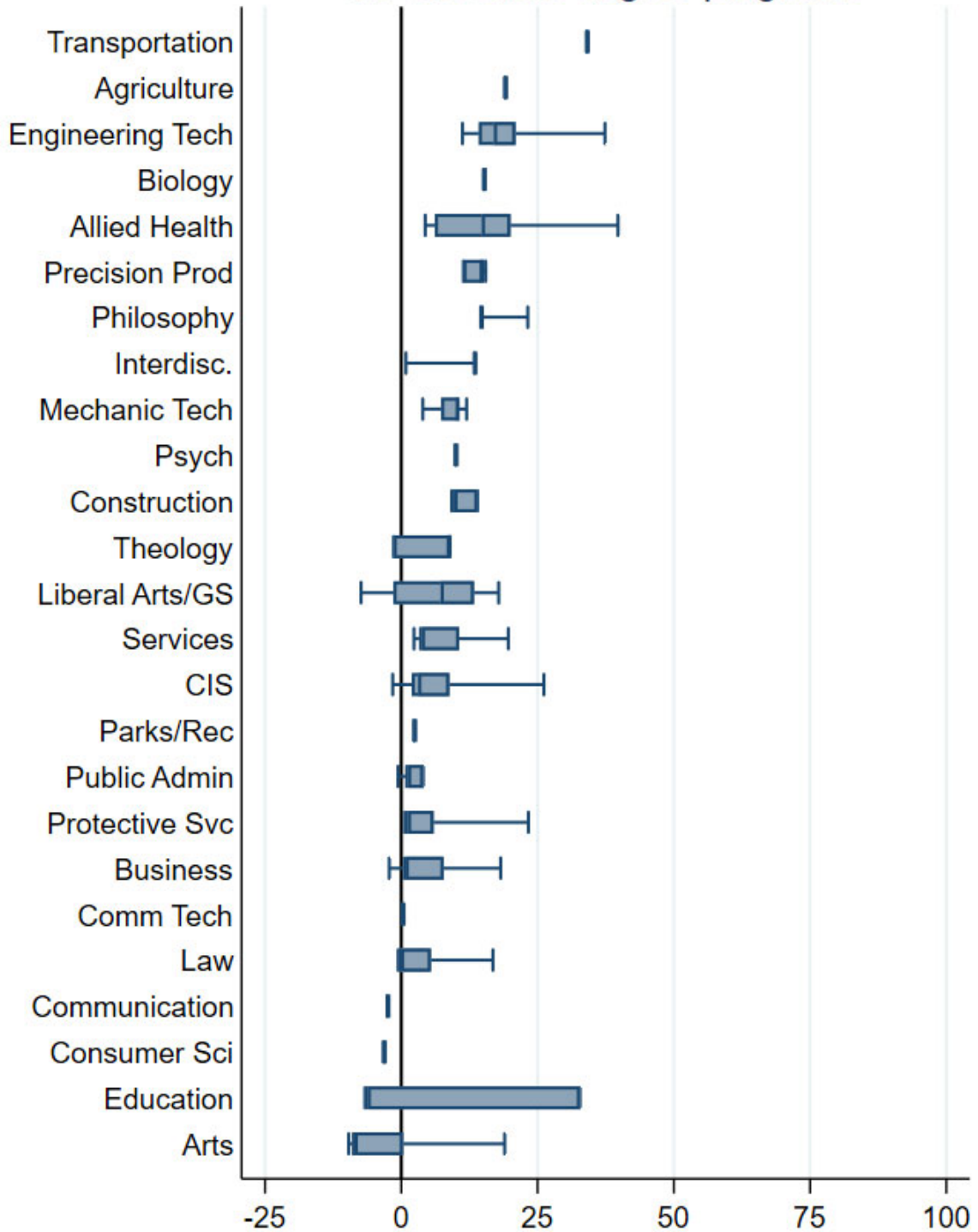
FP undergrad certificate programs



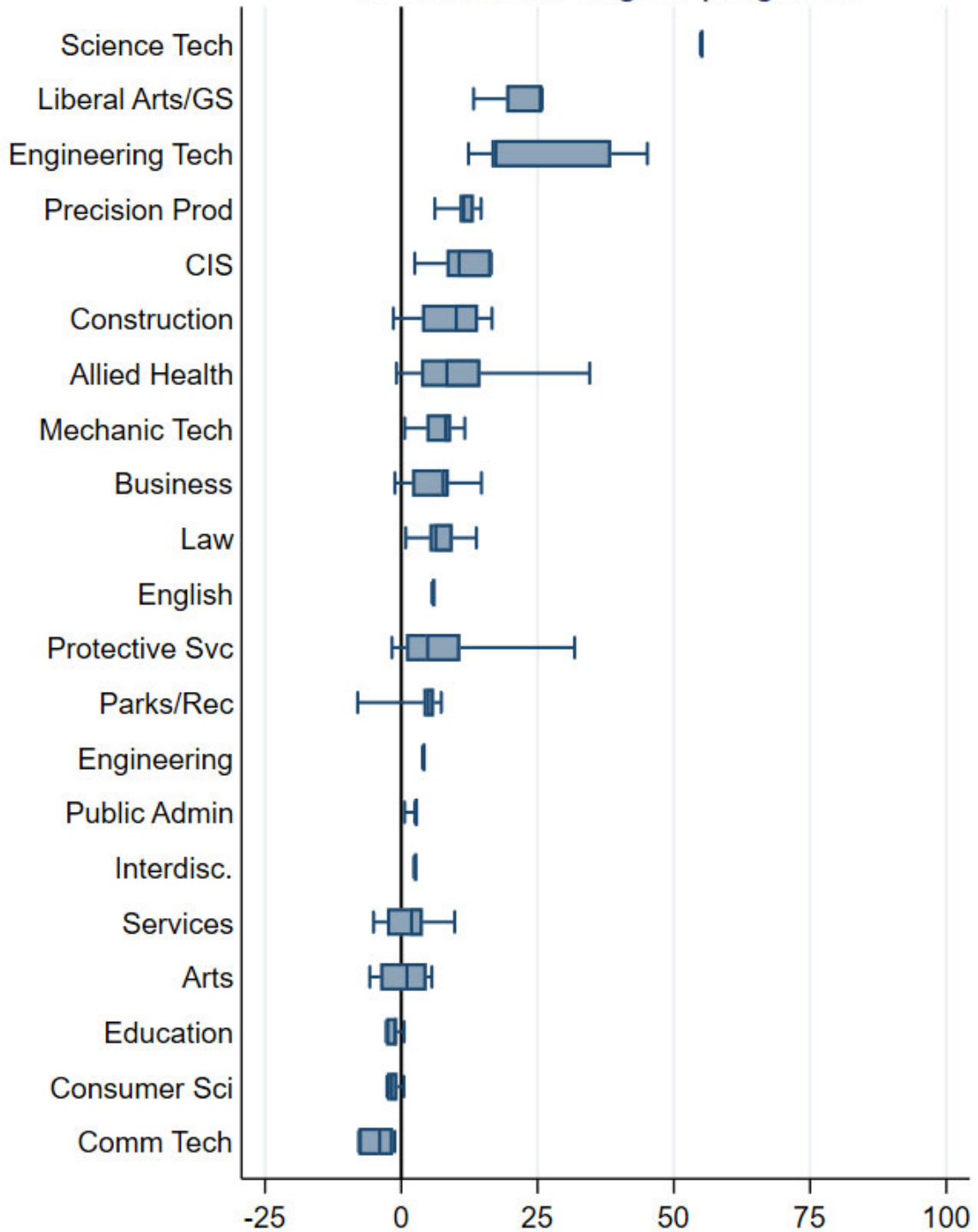
Public associate degree programs



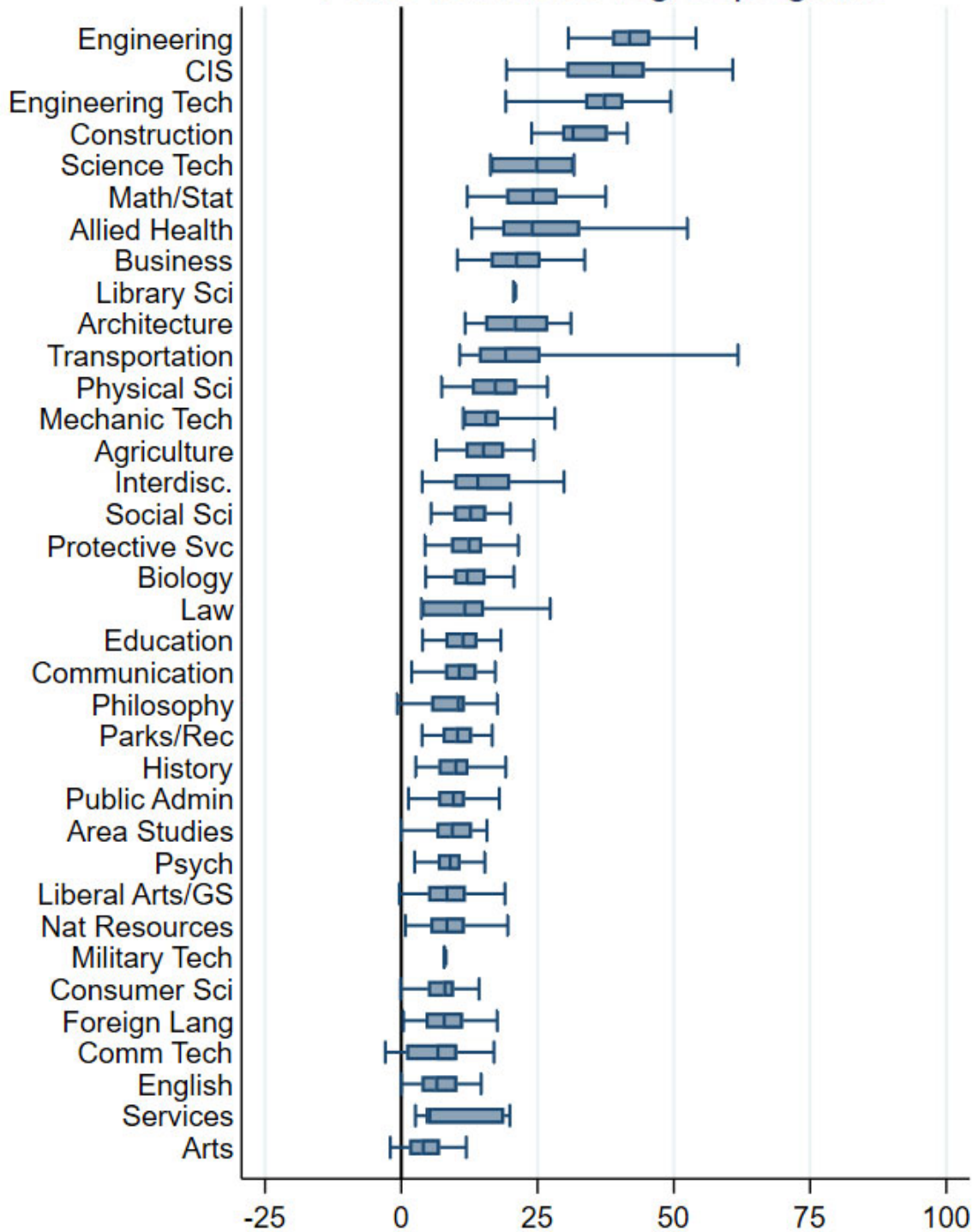
NP associate degree programs



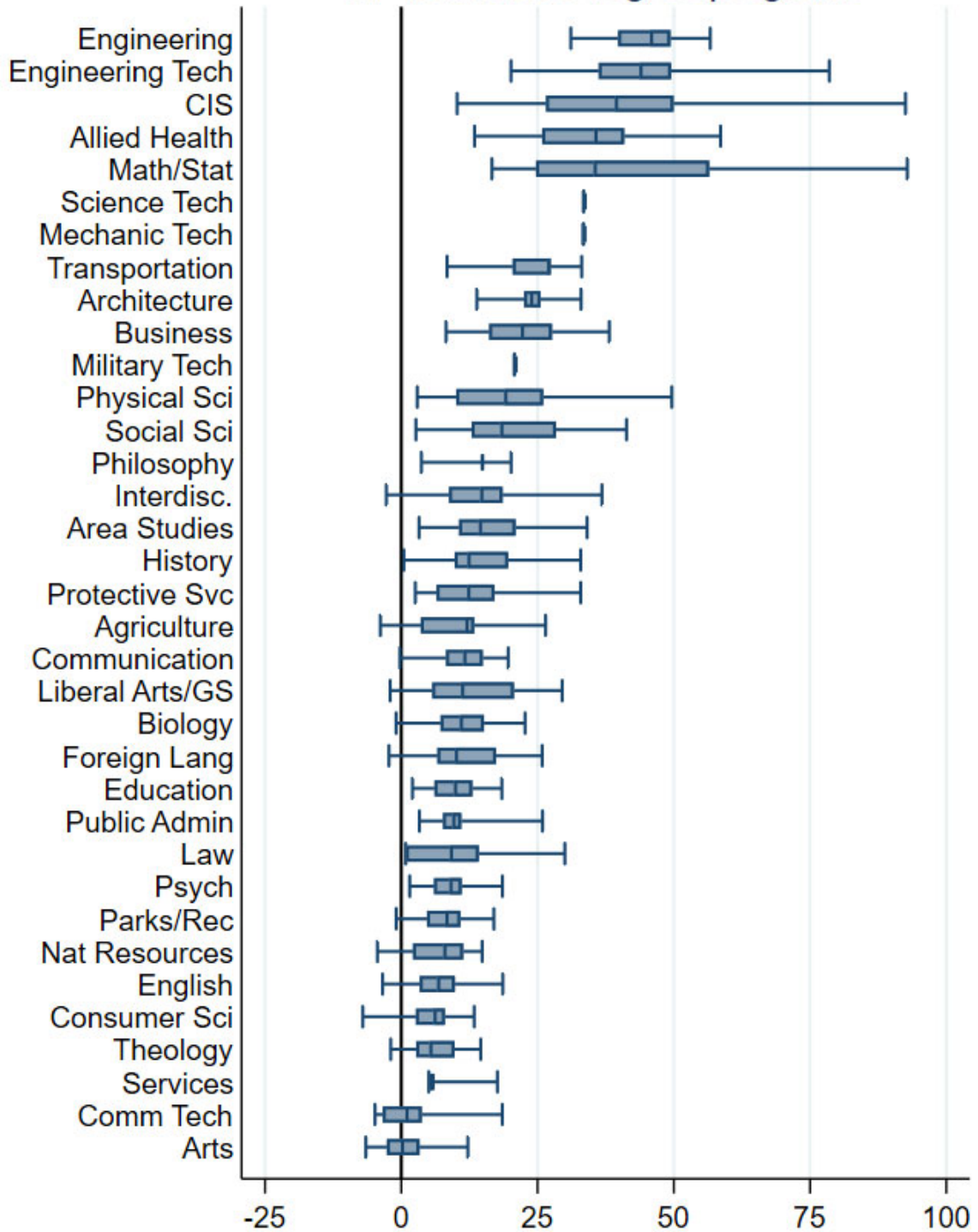
FP associate degree programs



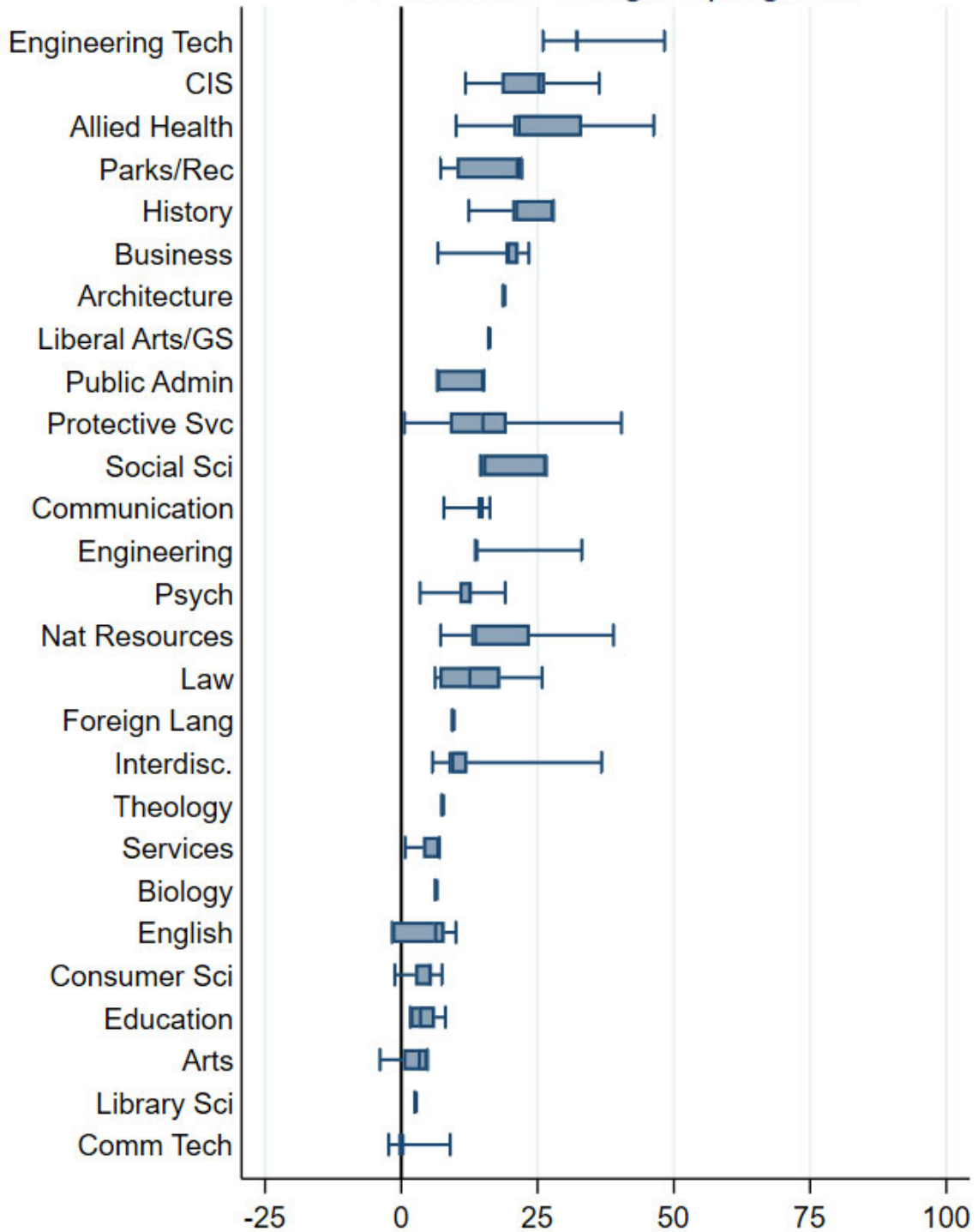
Public bachelor's degree programs



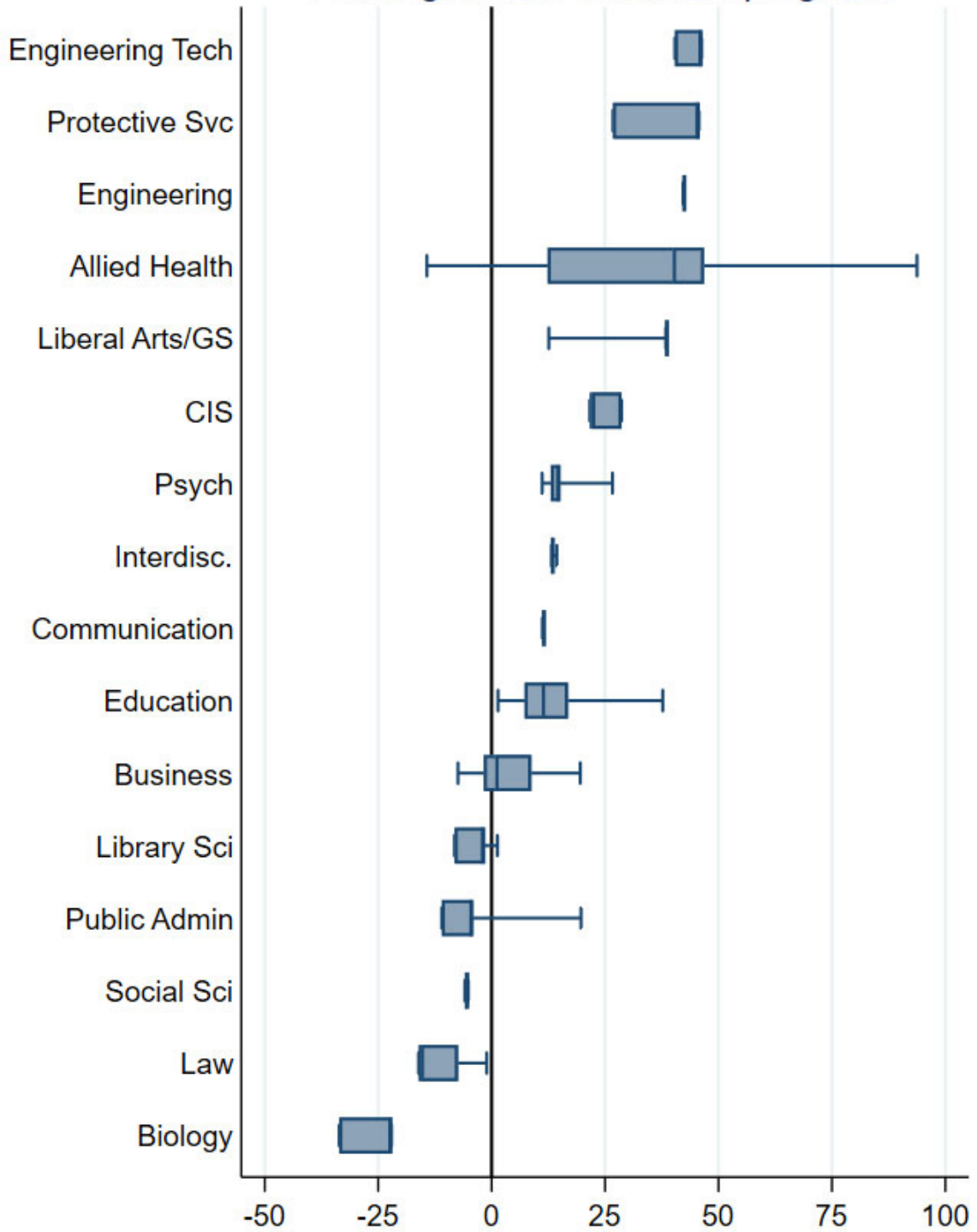
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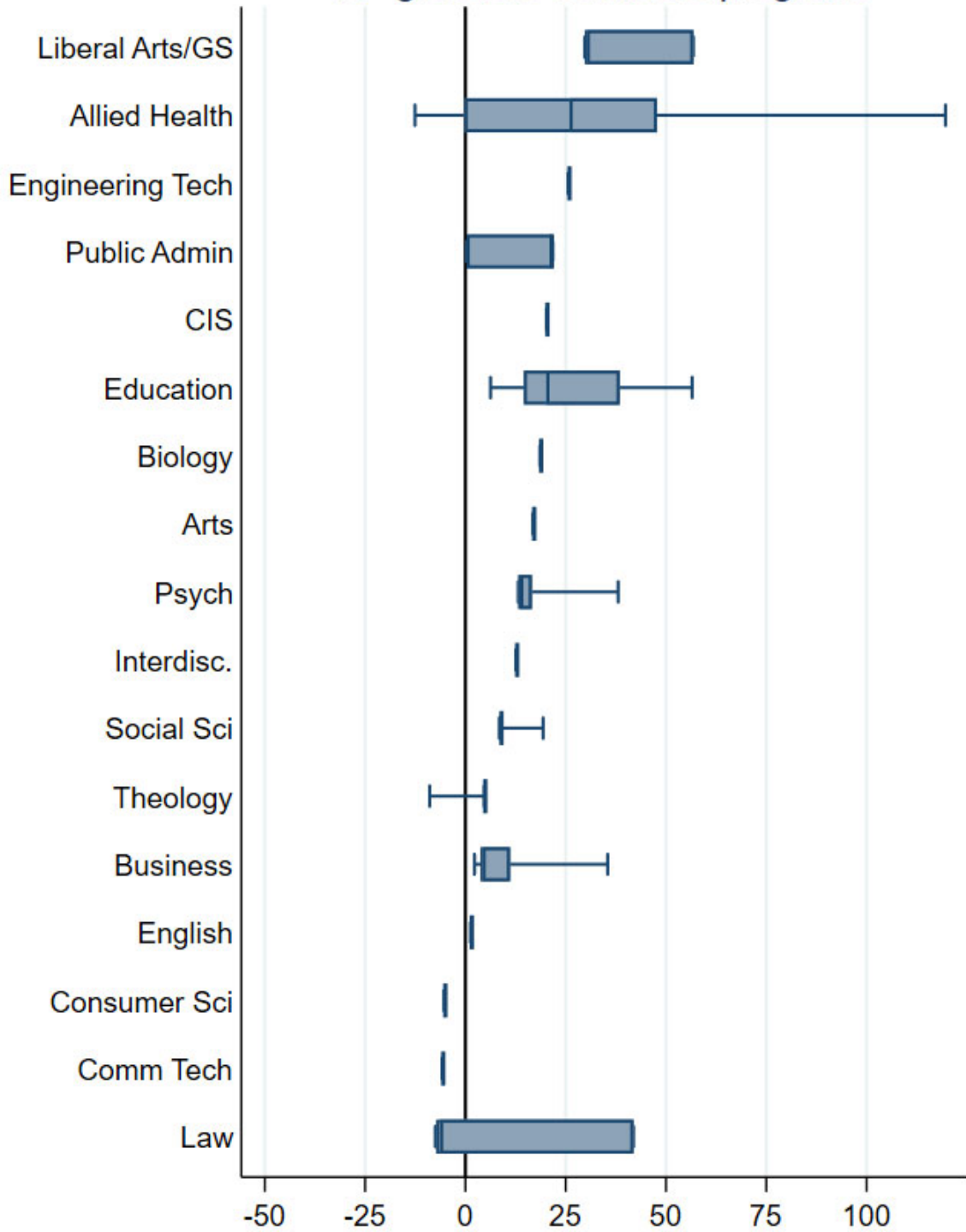
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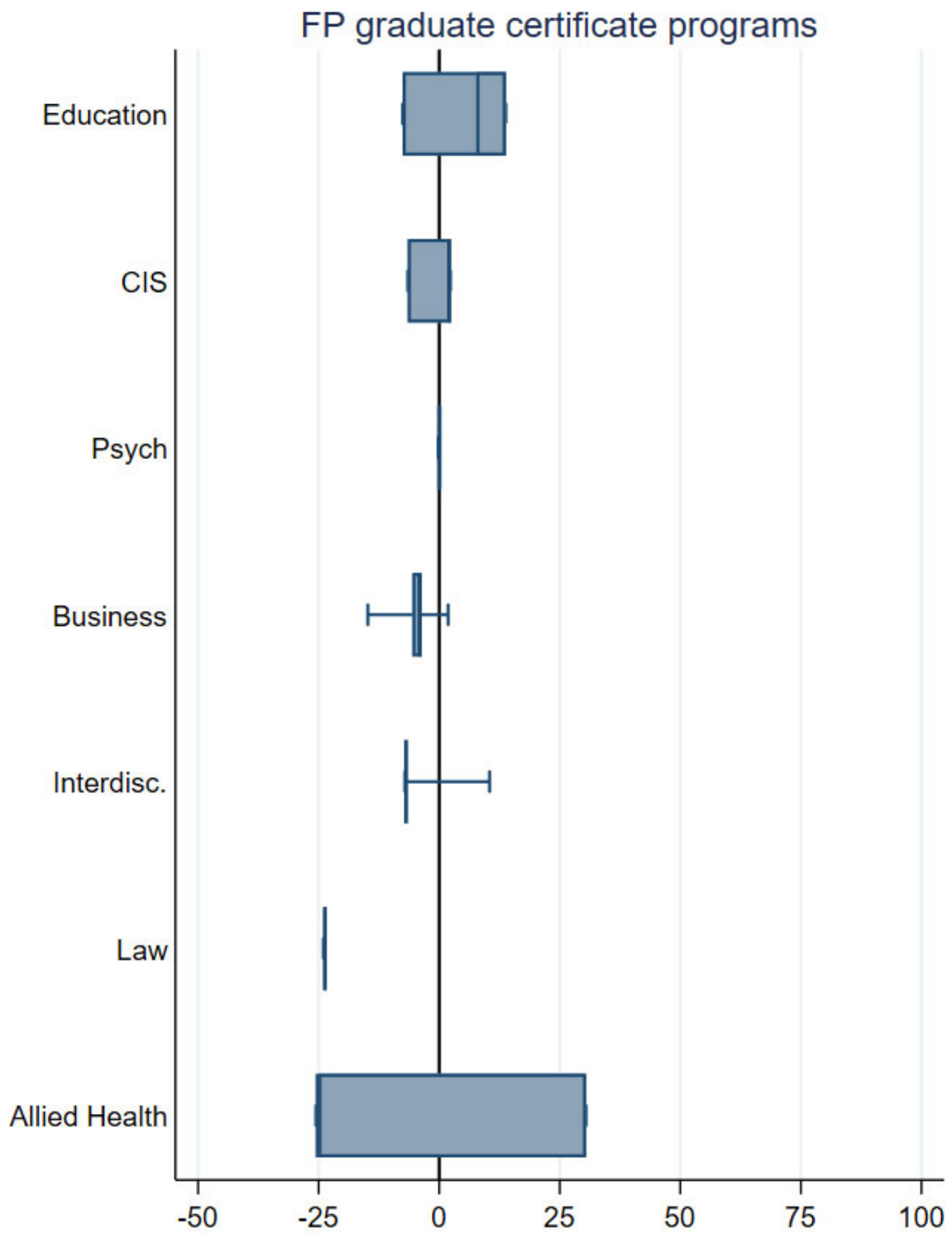


Public graduate certificate programs

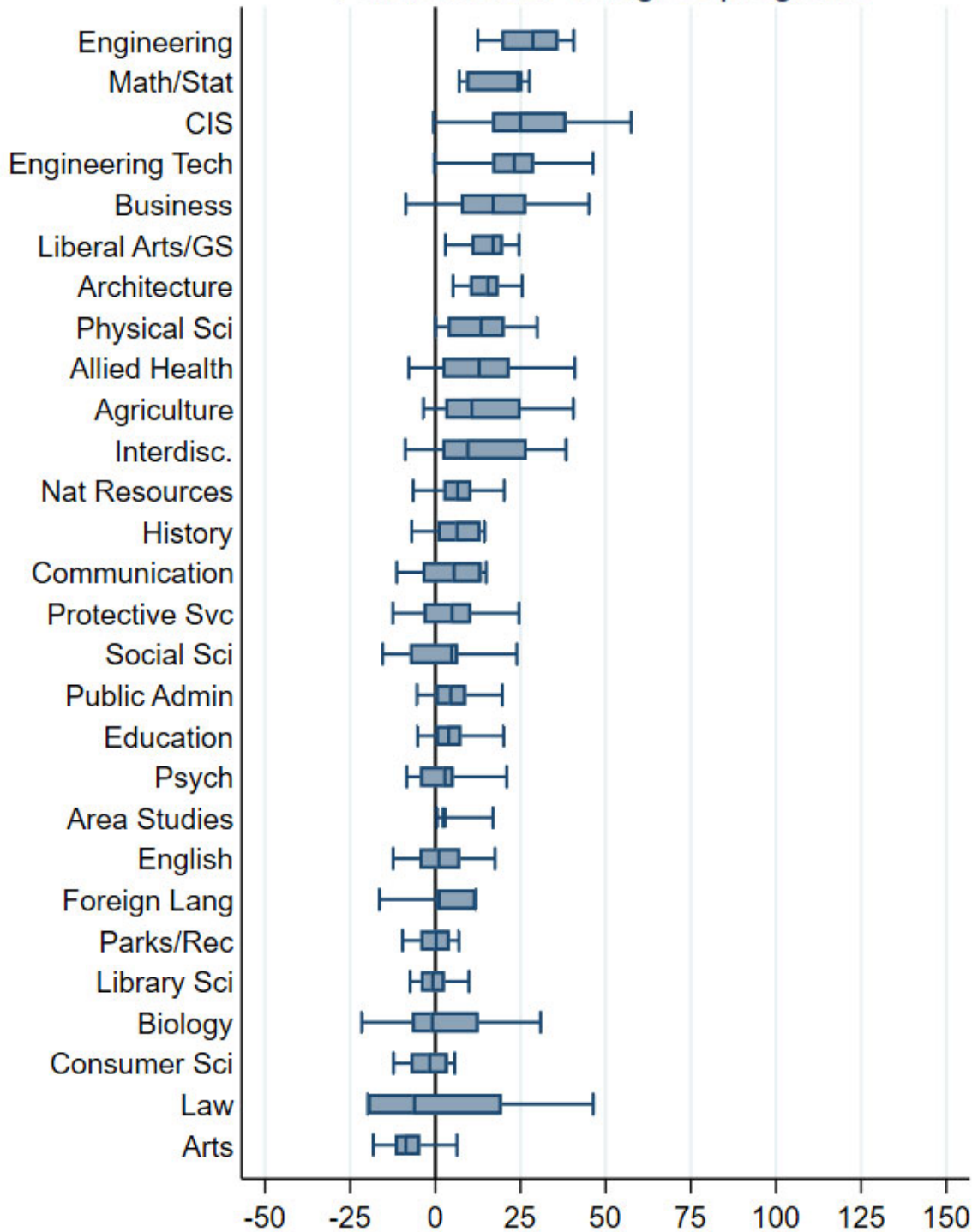


NP graduate certificate programs

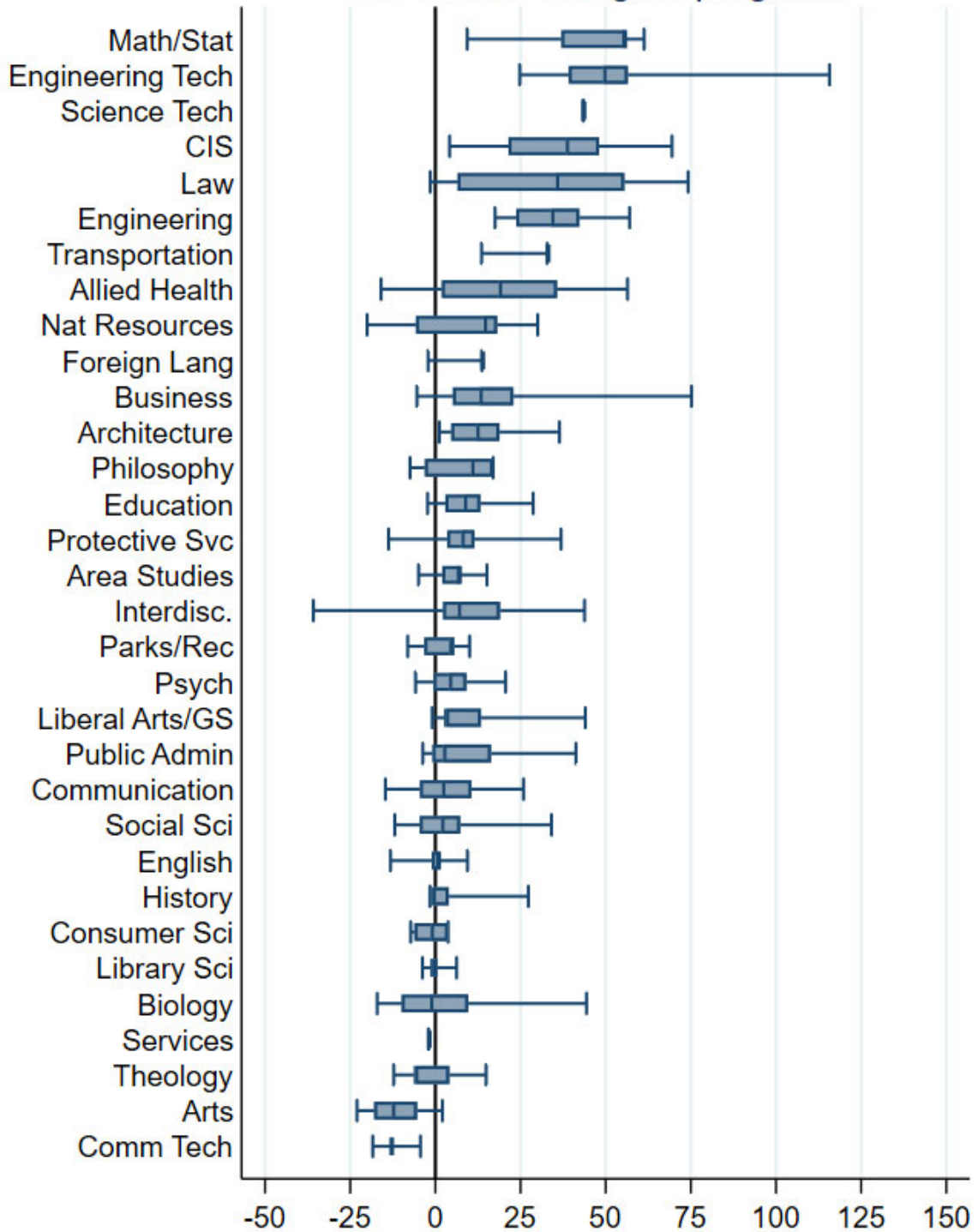




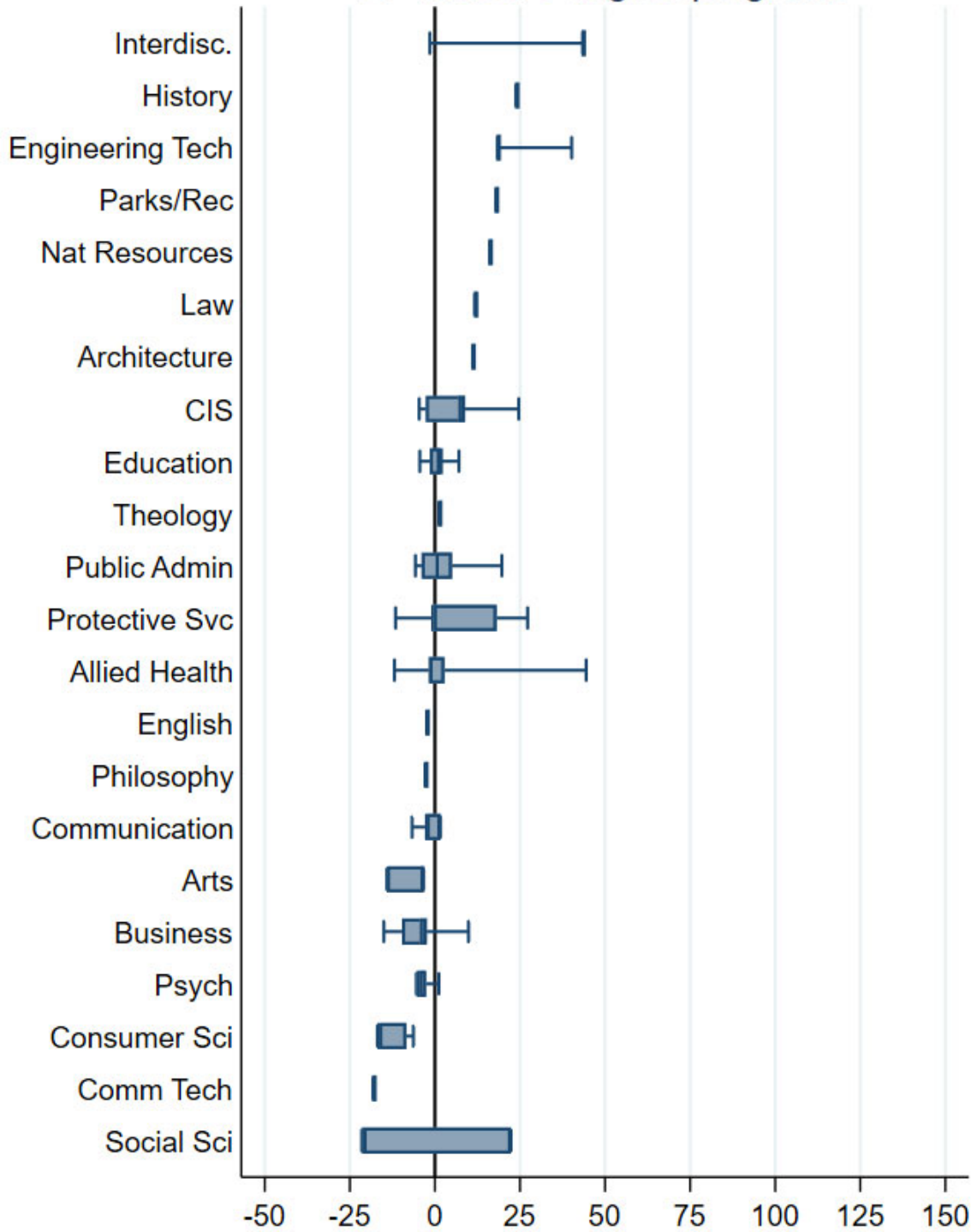
Public master's degree programs



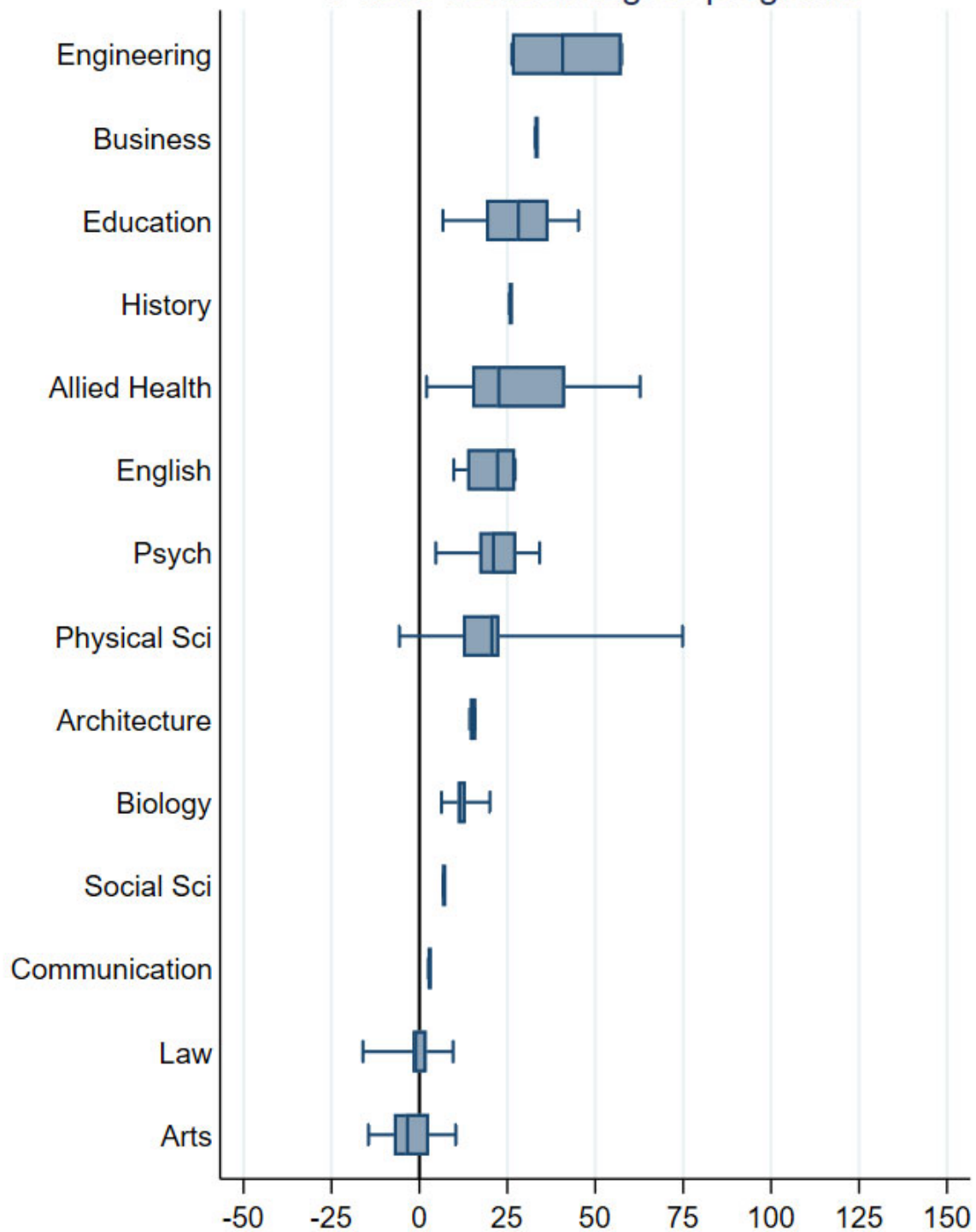
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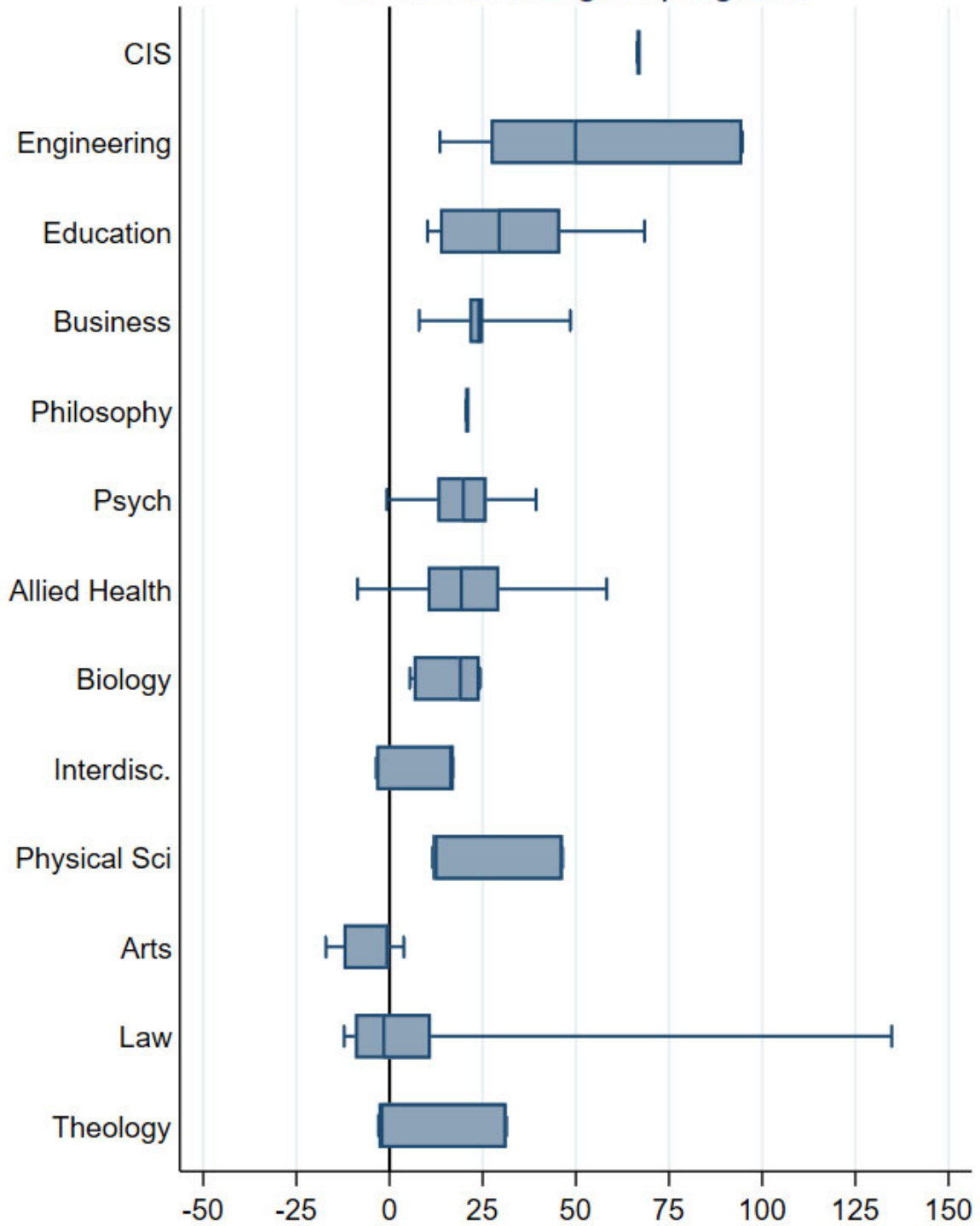
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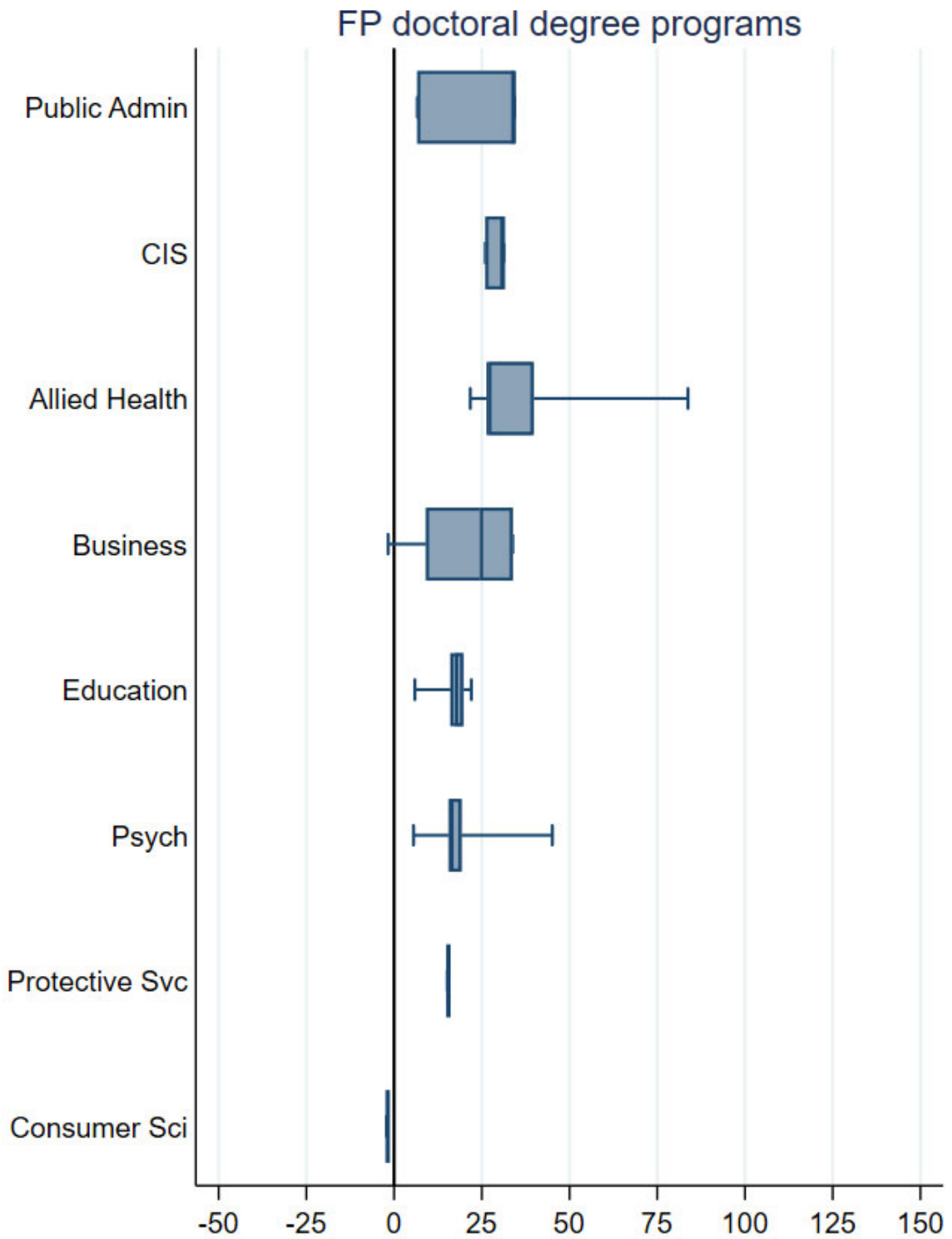


Public doctoral degree programs

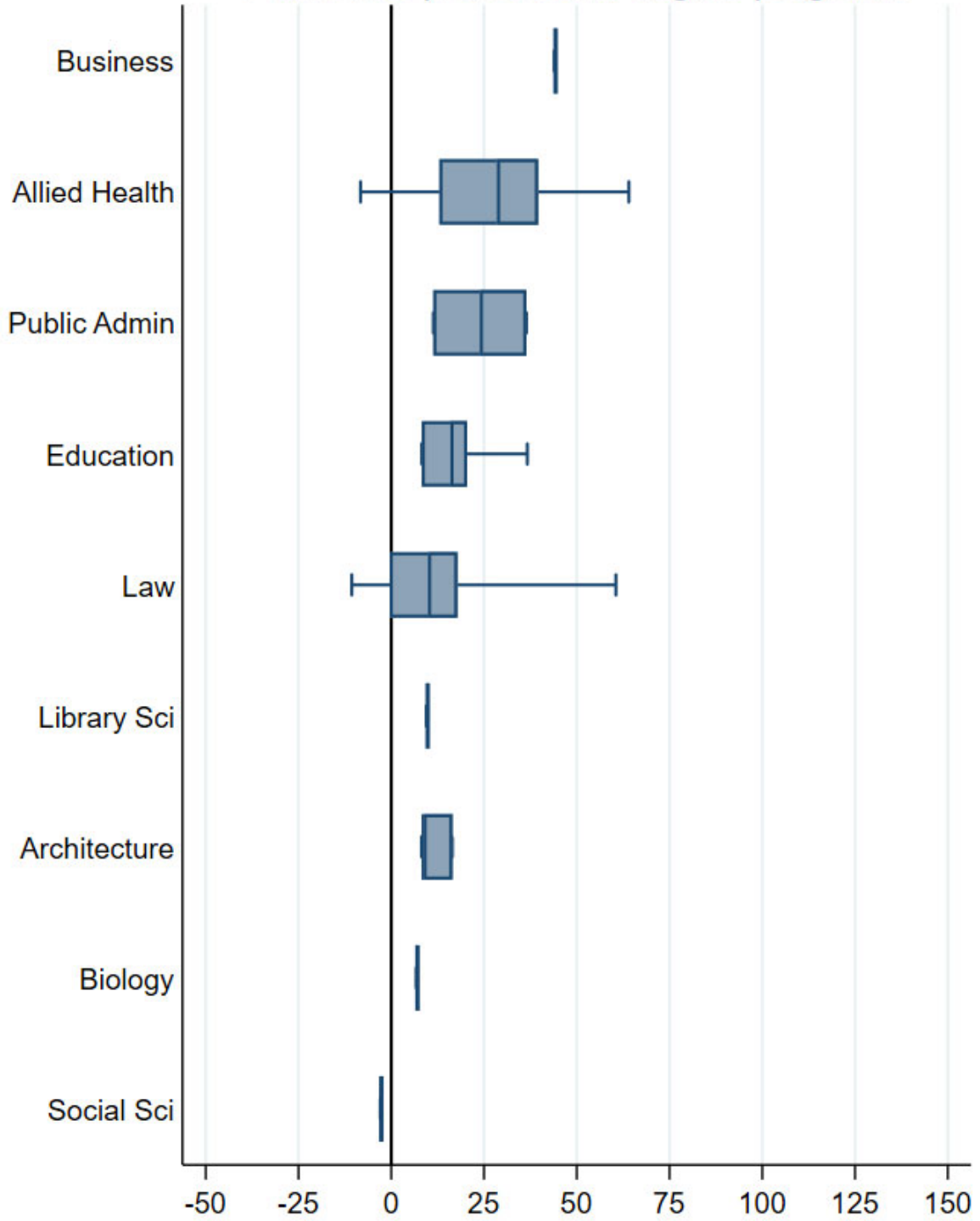


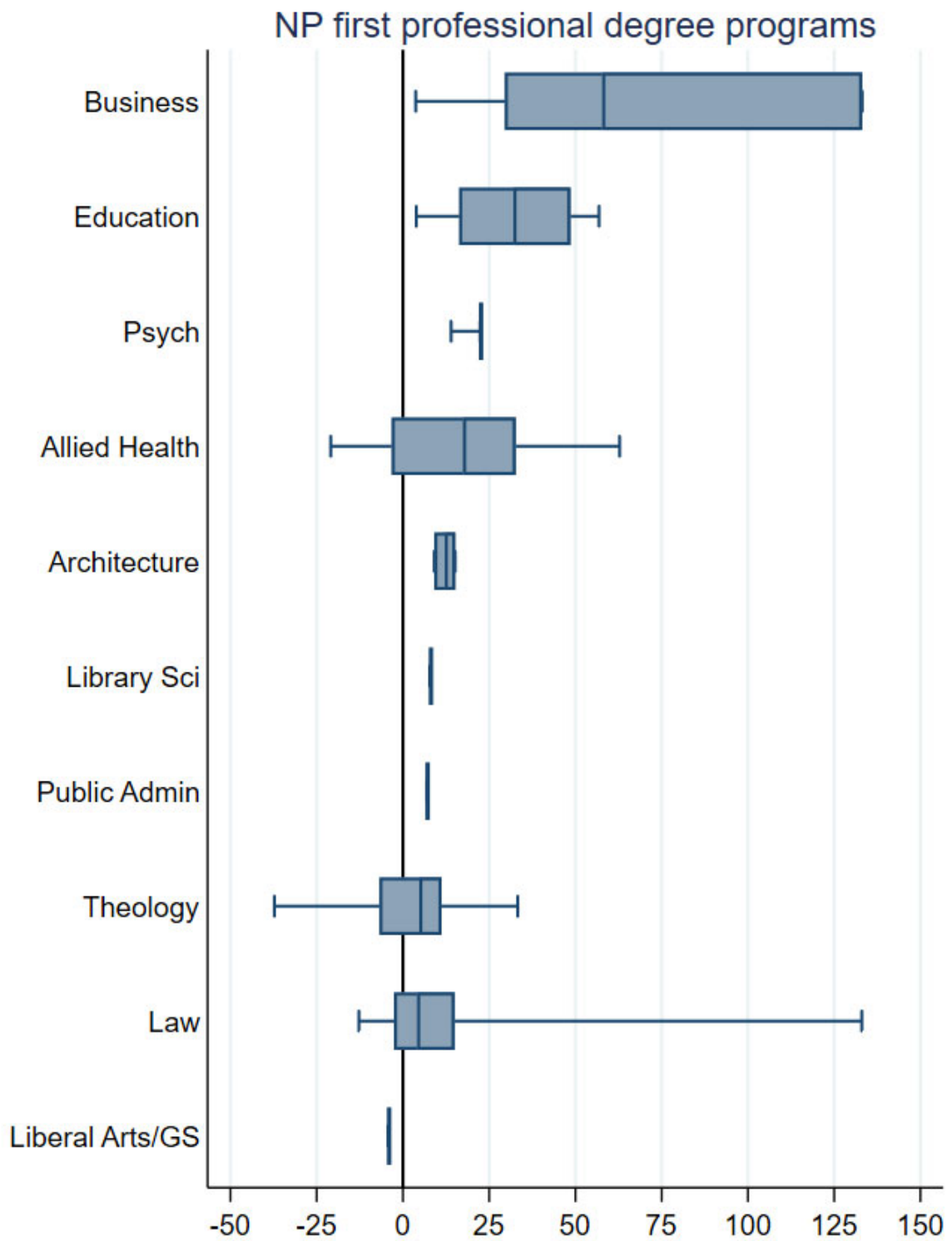
NP doctoral degree programs





Public first professional degree programs





FP first professional degree programs

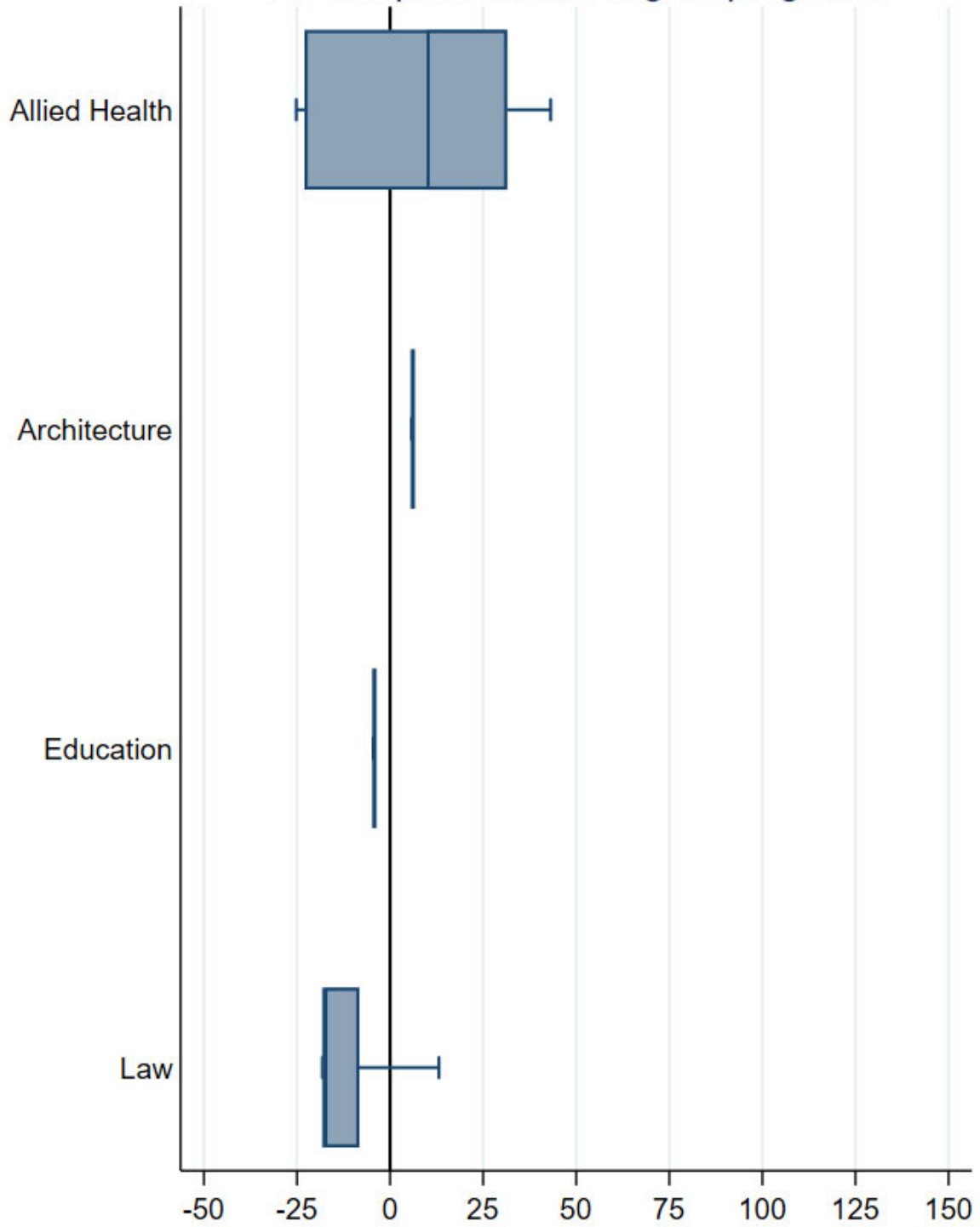
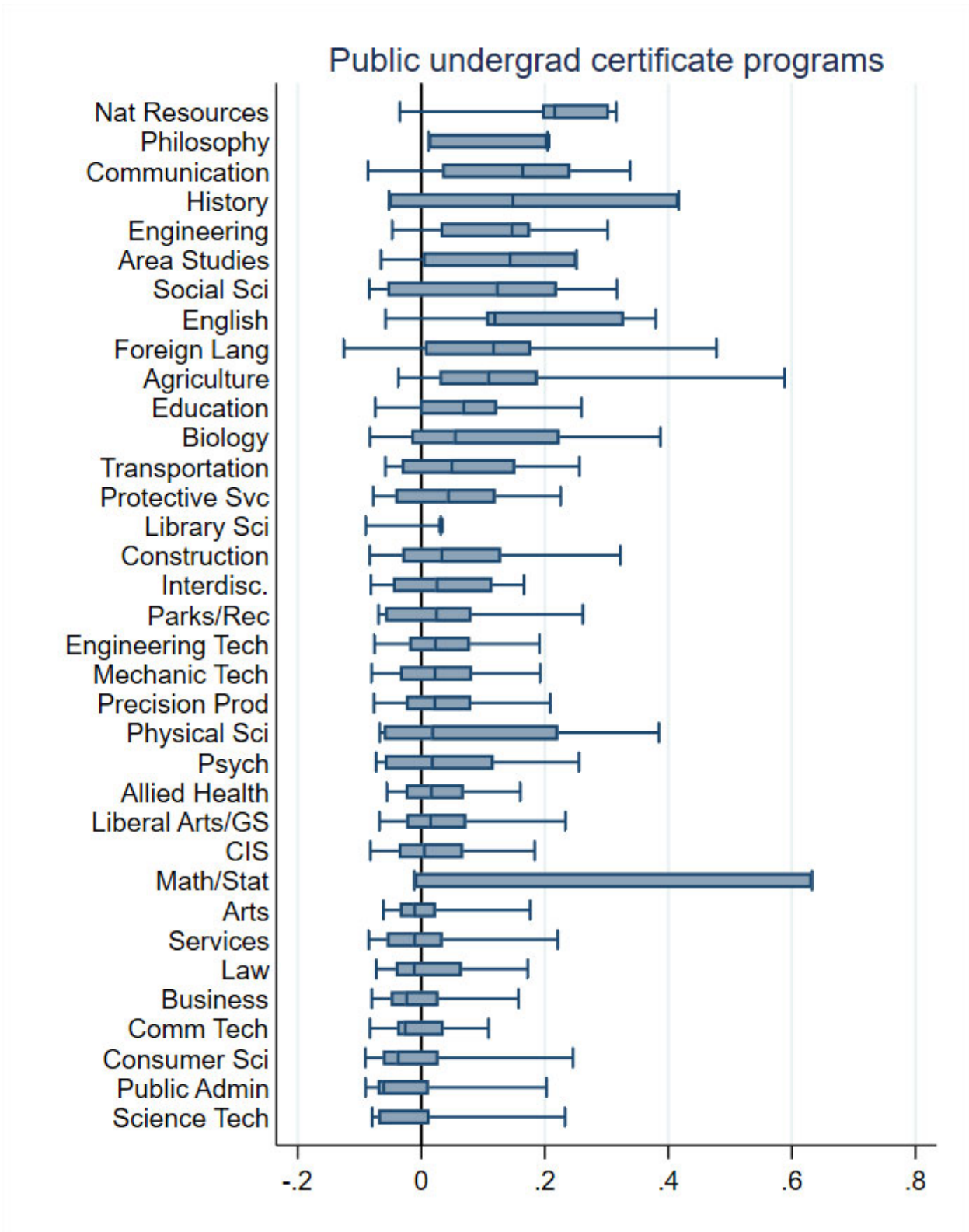
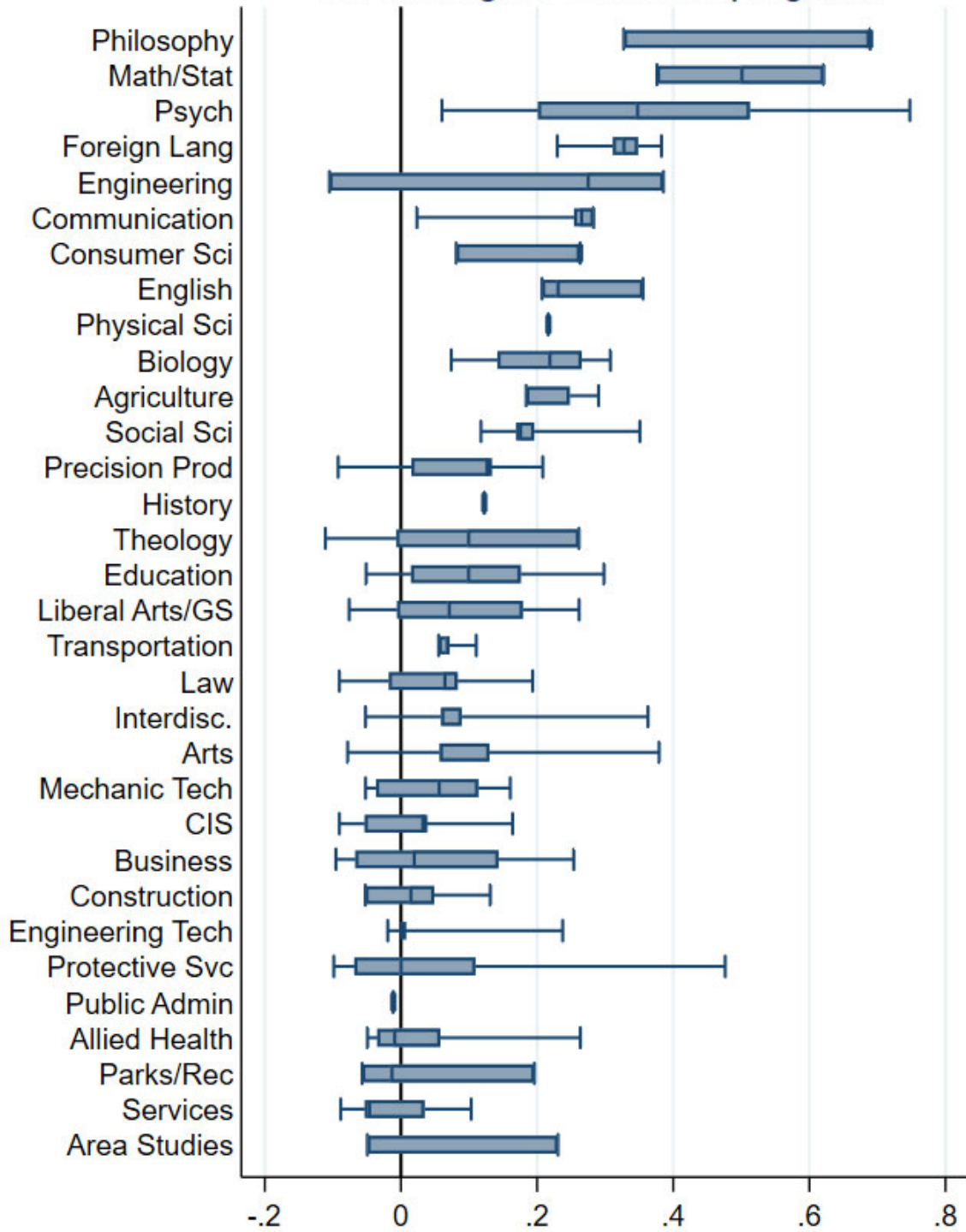


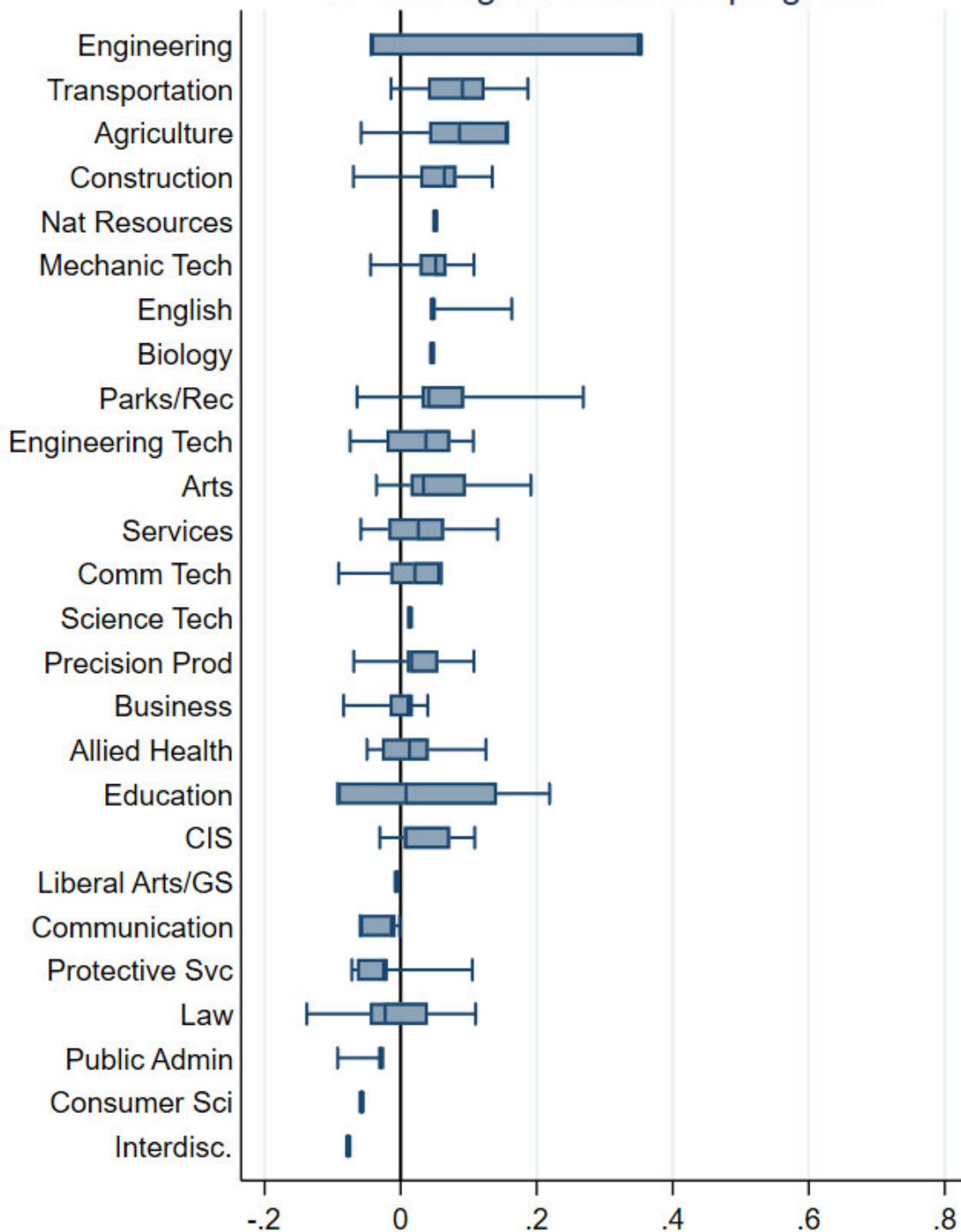
Figure A4: Loan Repayment Rate Performance by Sector, Credential, and Field



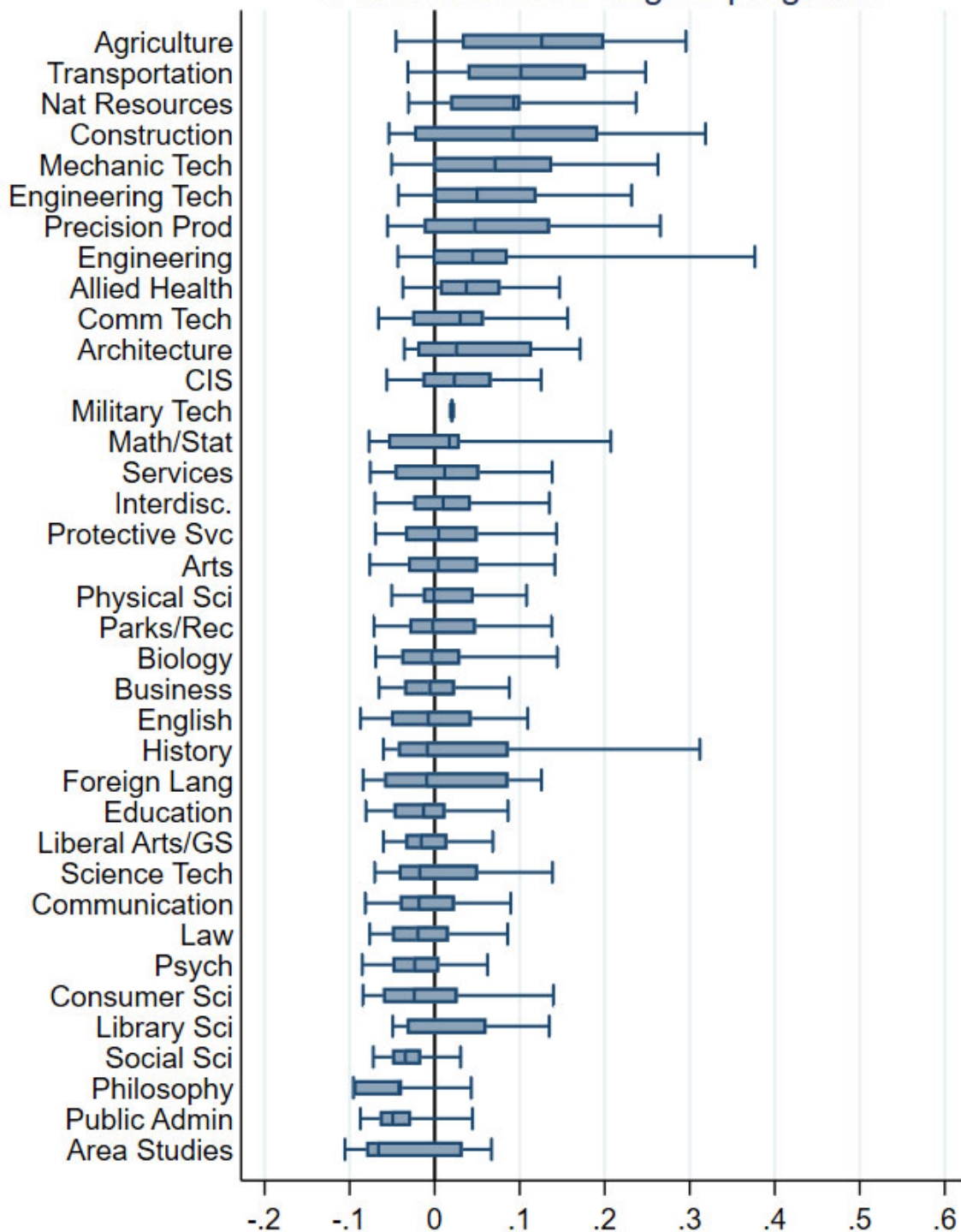
NP undergrad certificate programs



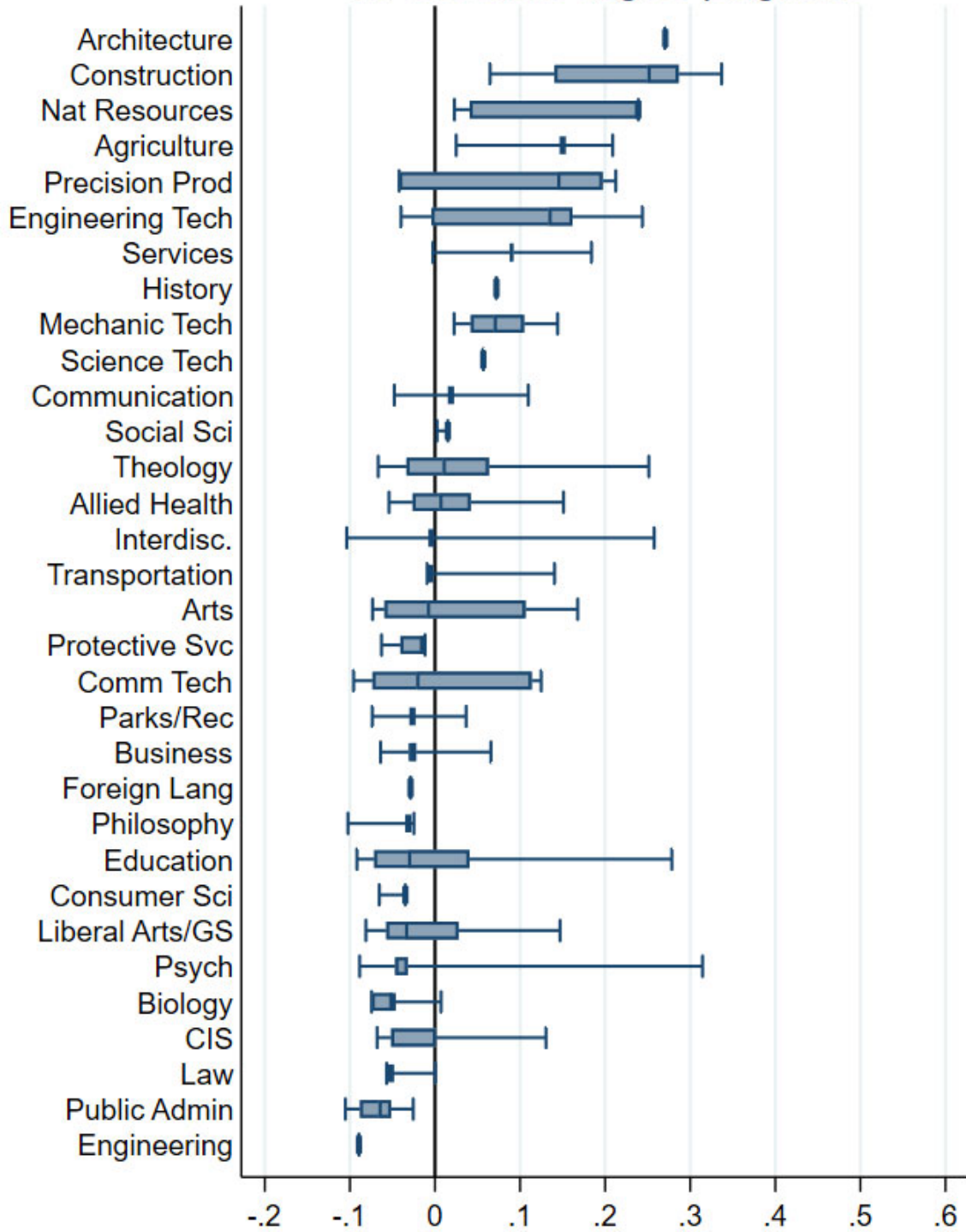
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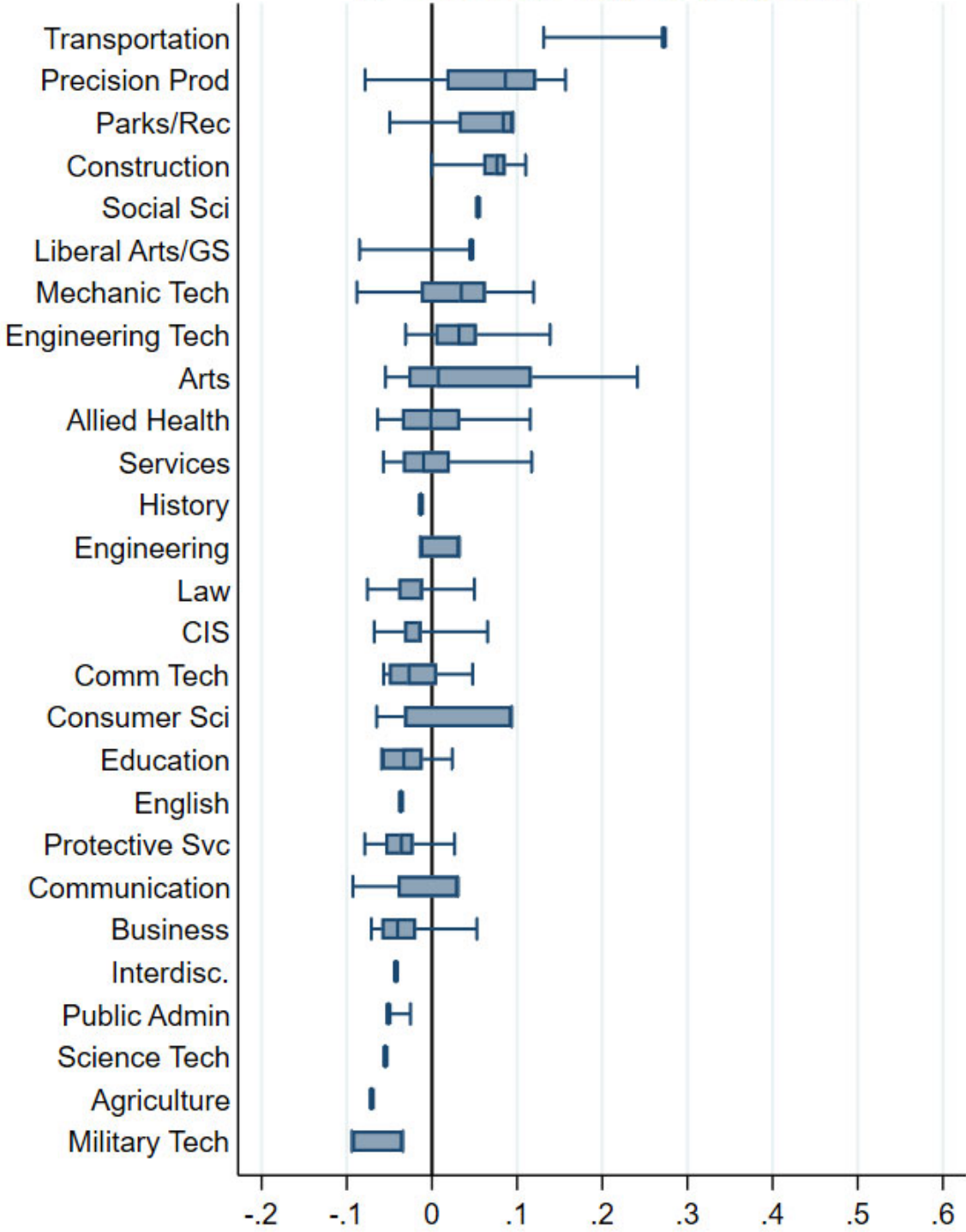
Public associate degree programs



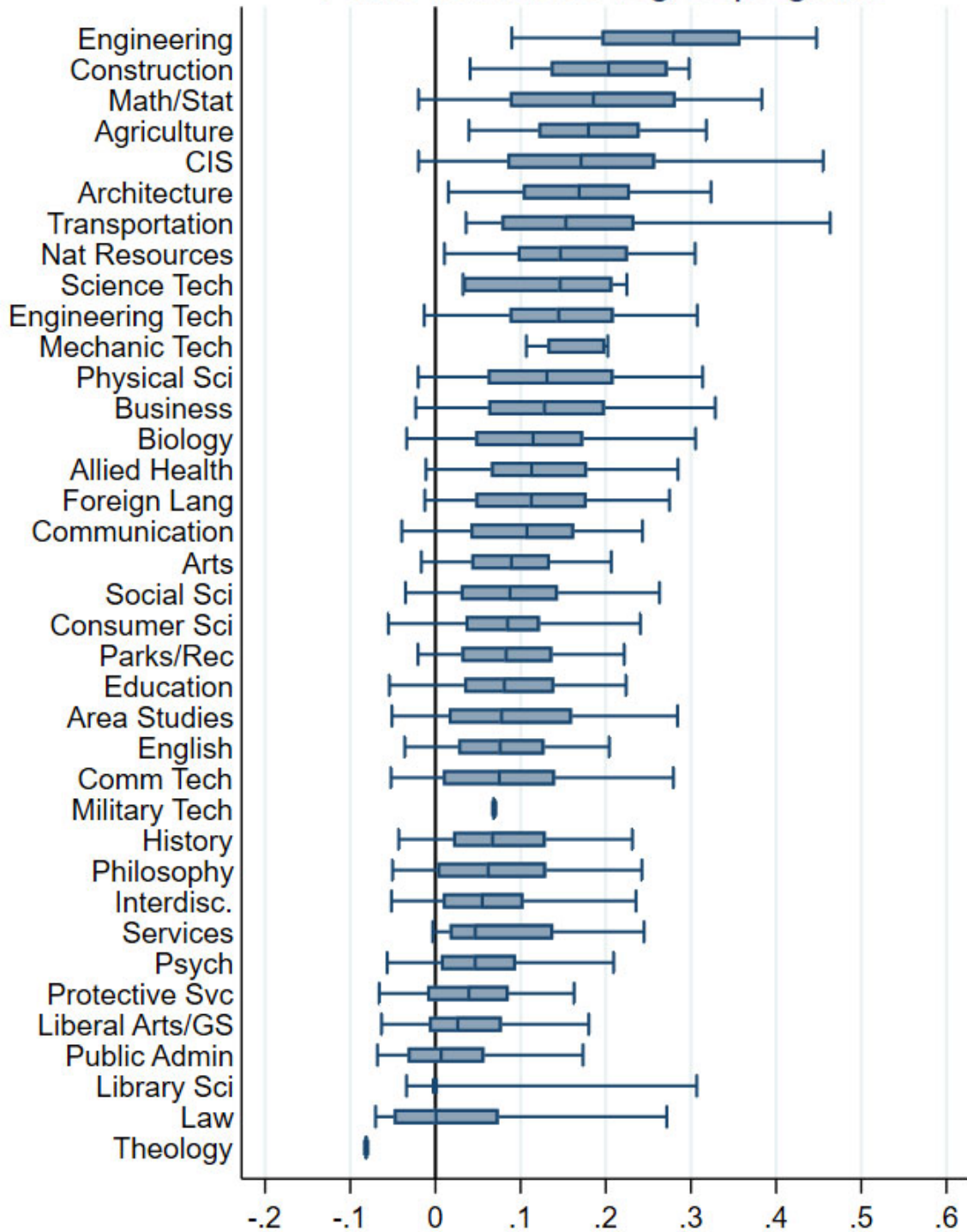
NP associate degree programs



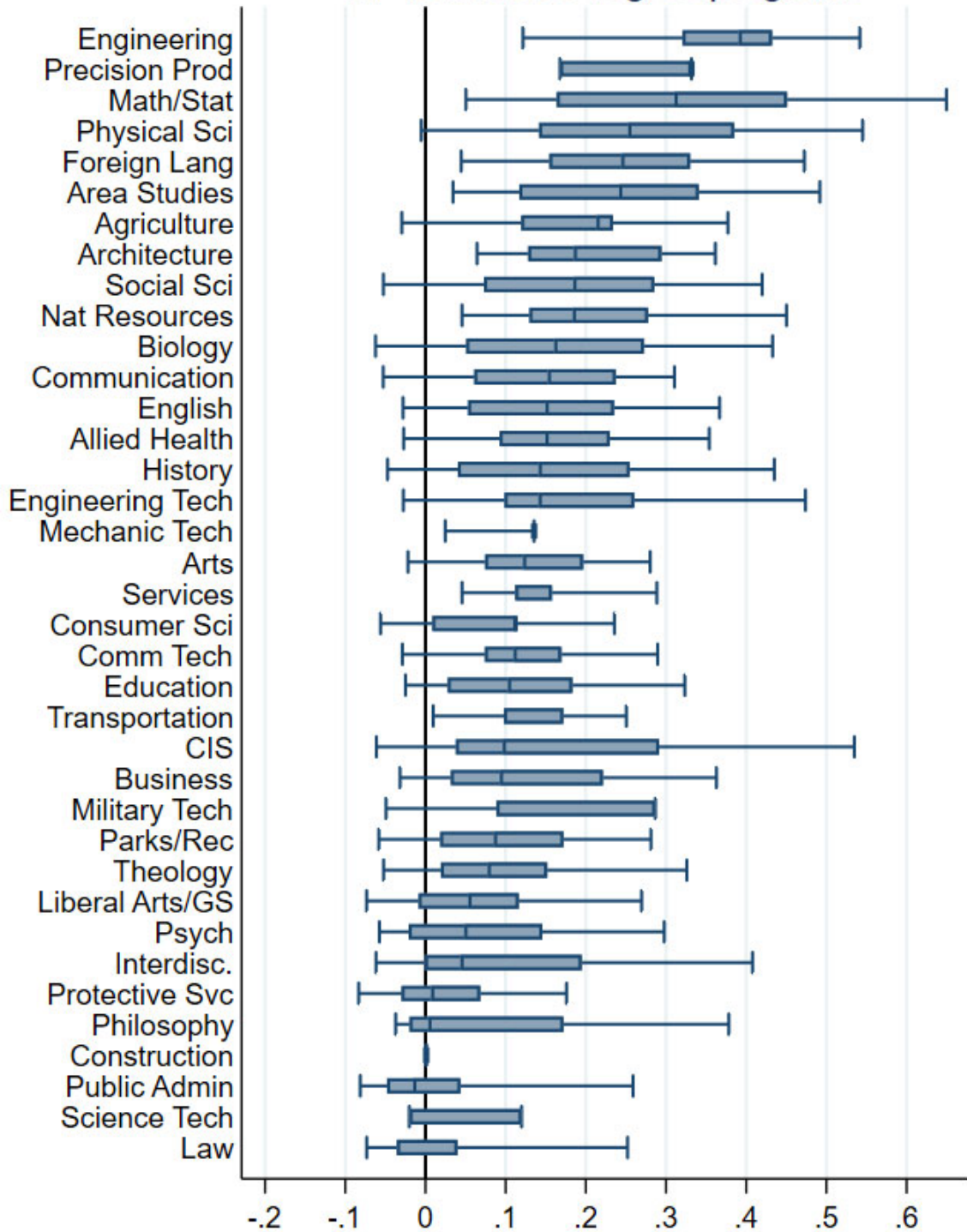
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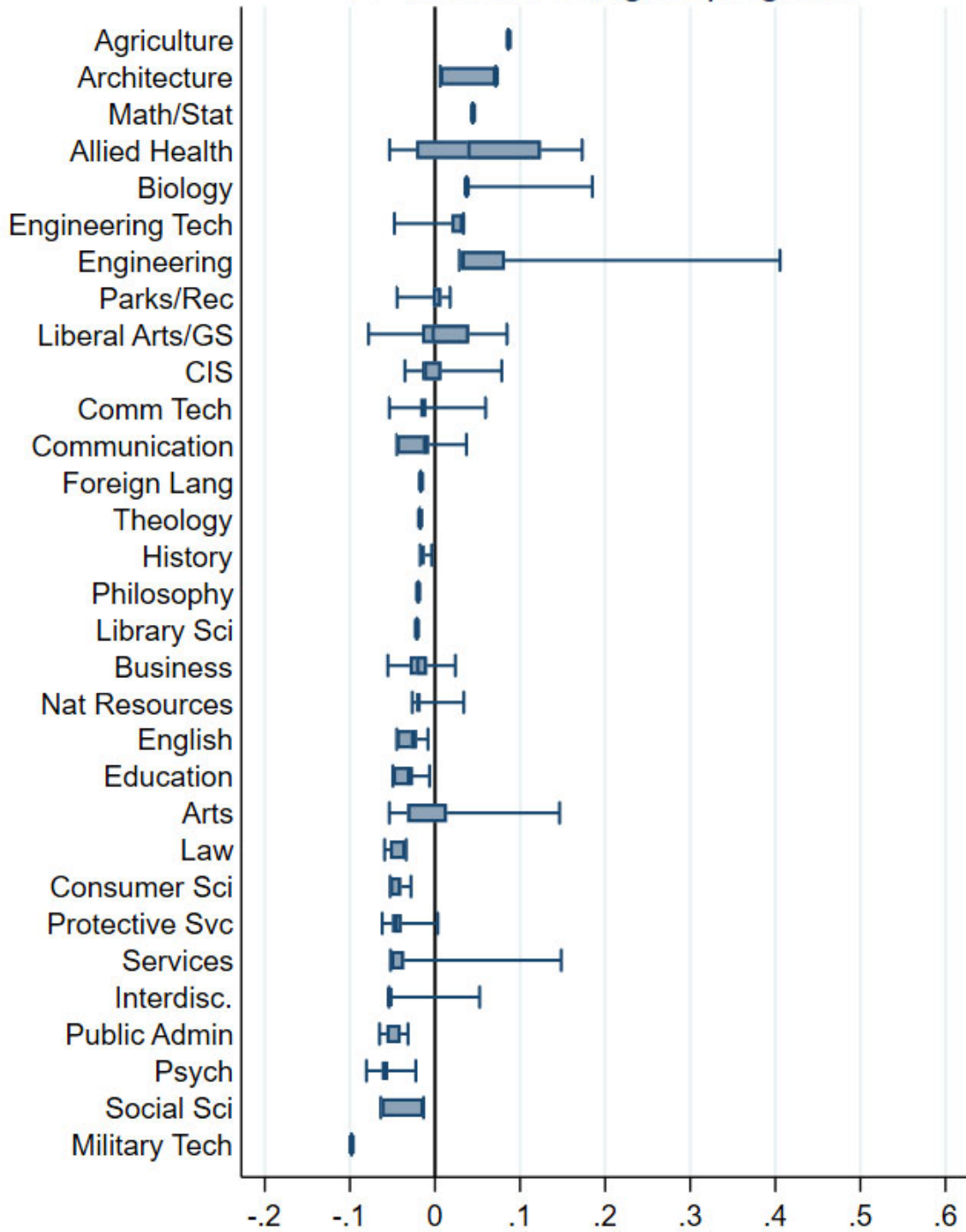
Public bachelor's degree programs



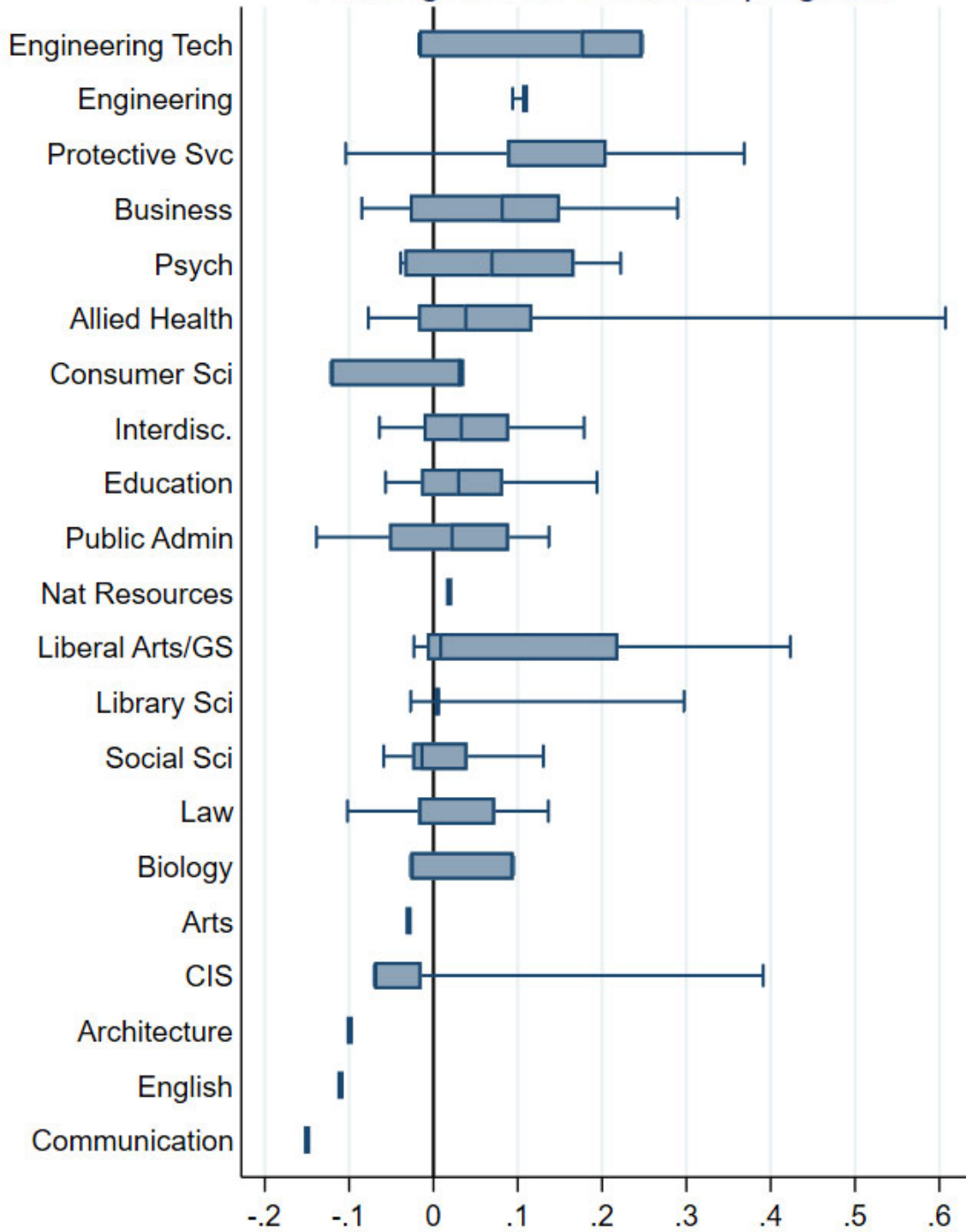
NP bachelor's degree programs



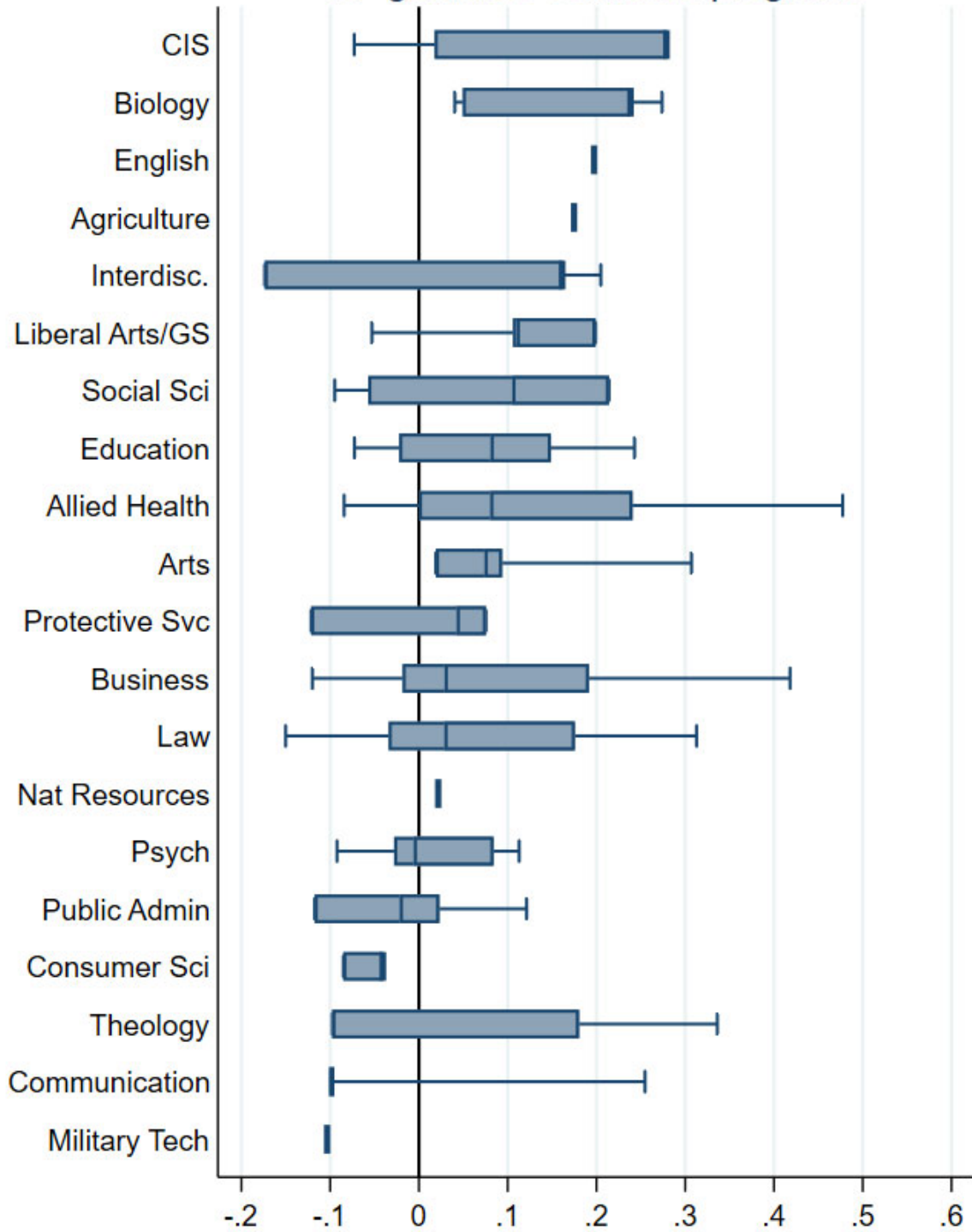
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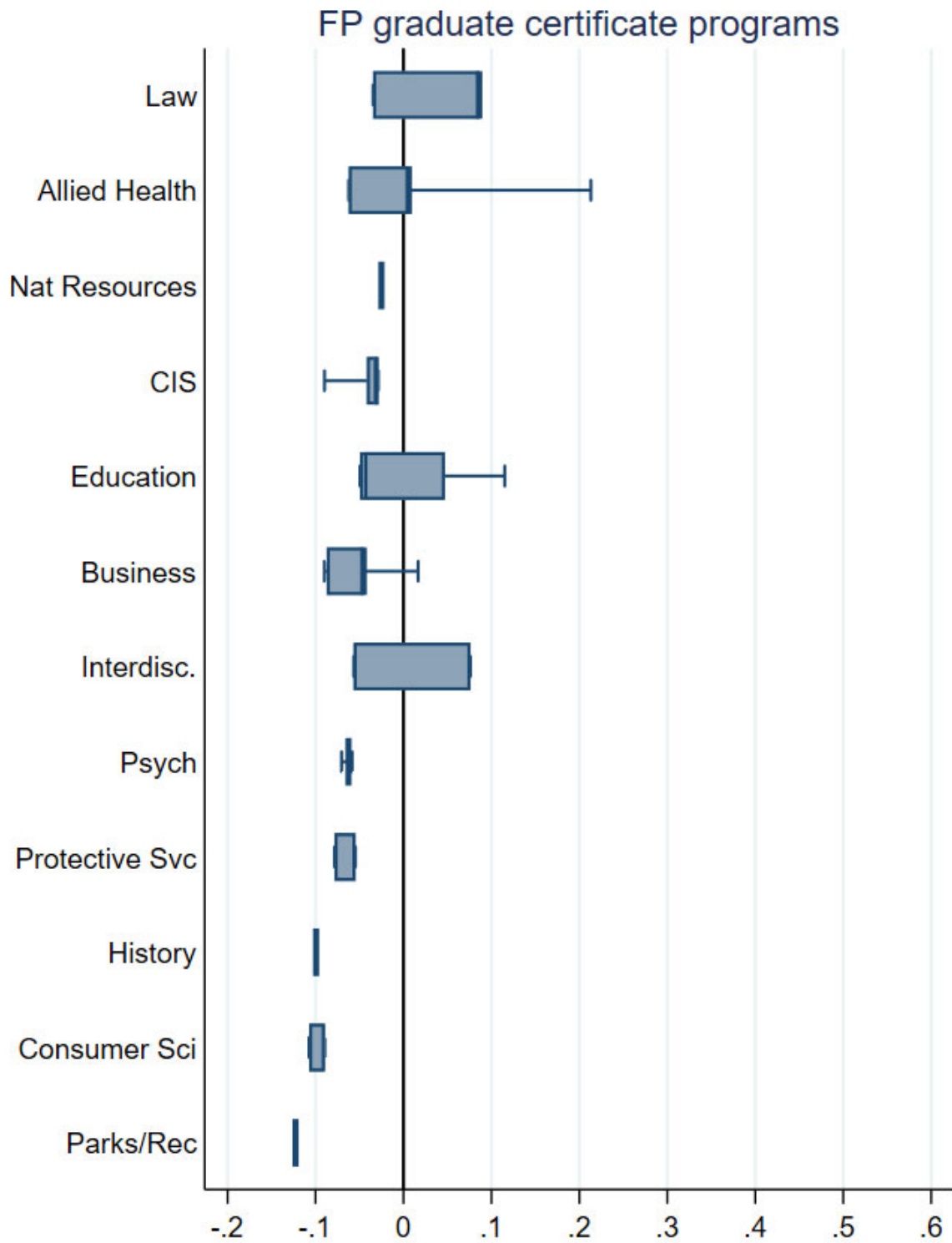


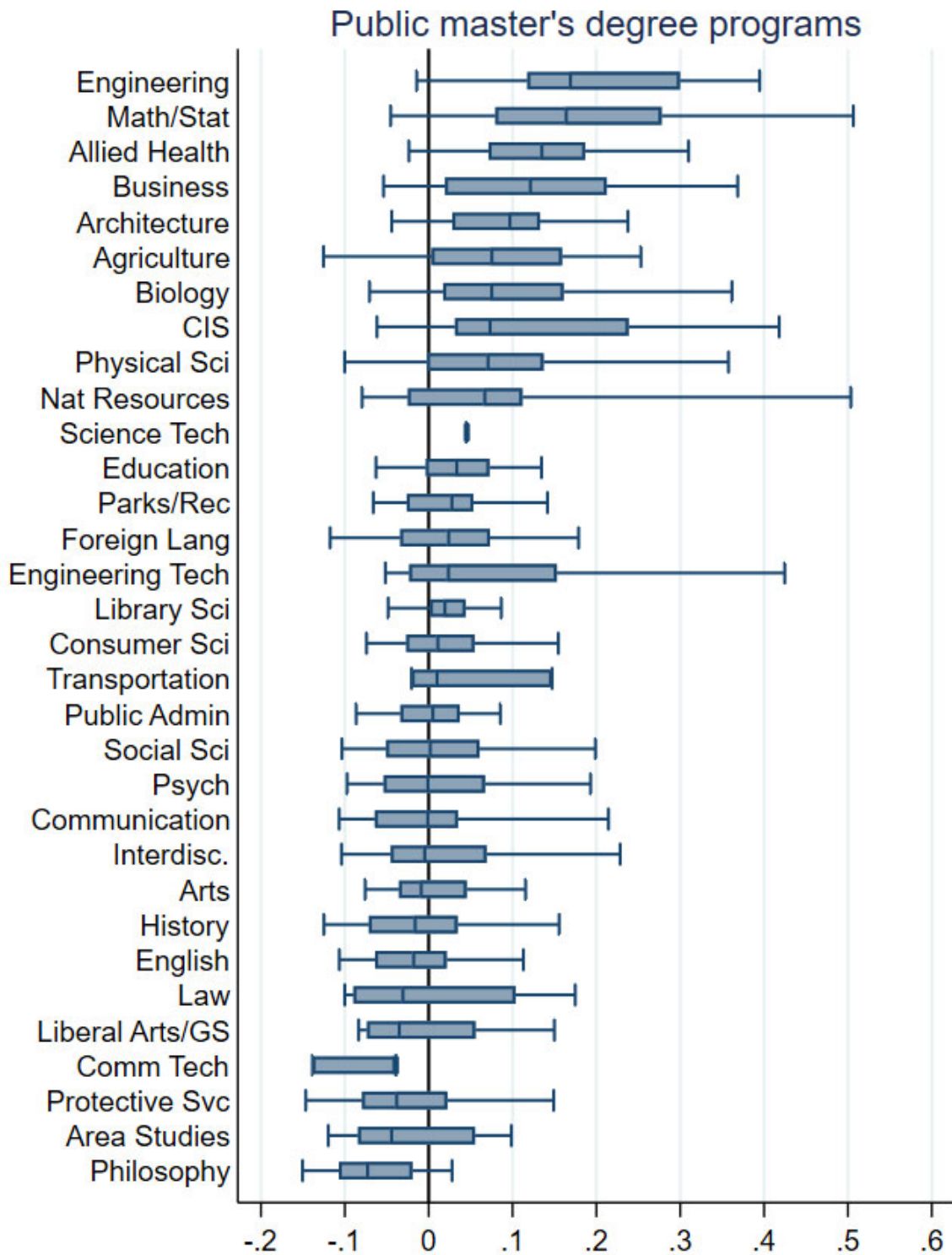
Public graduate certificate programs



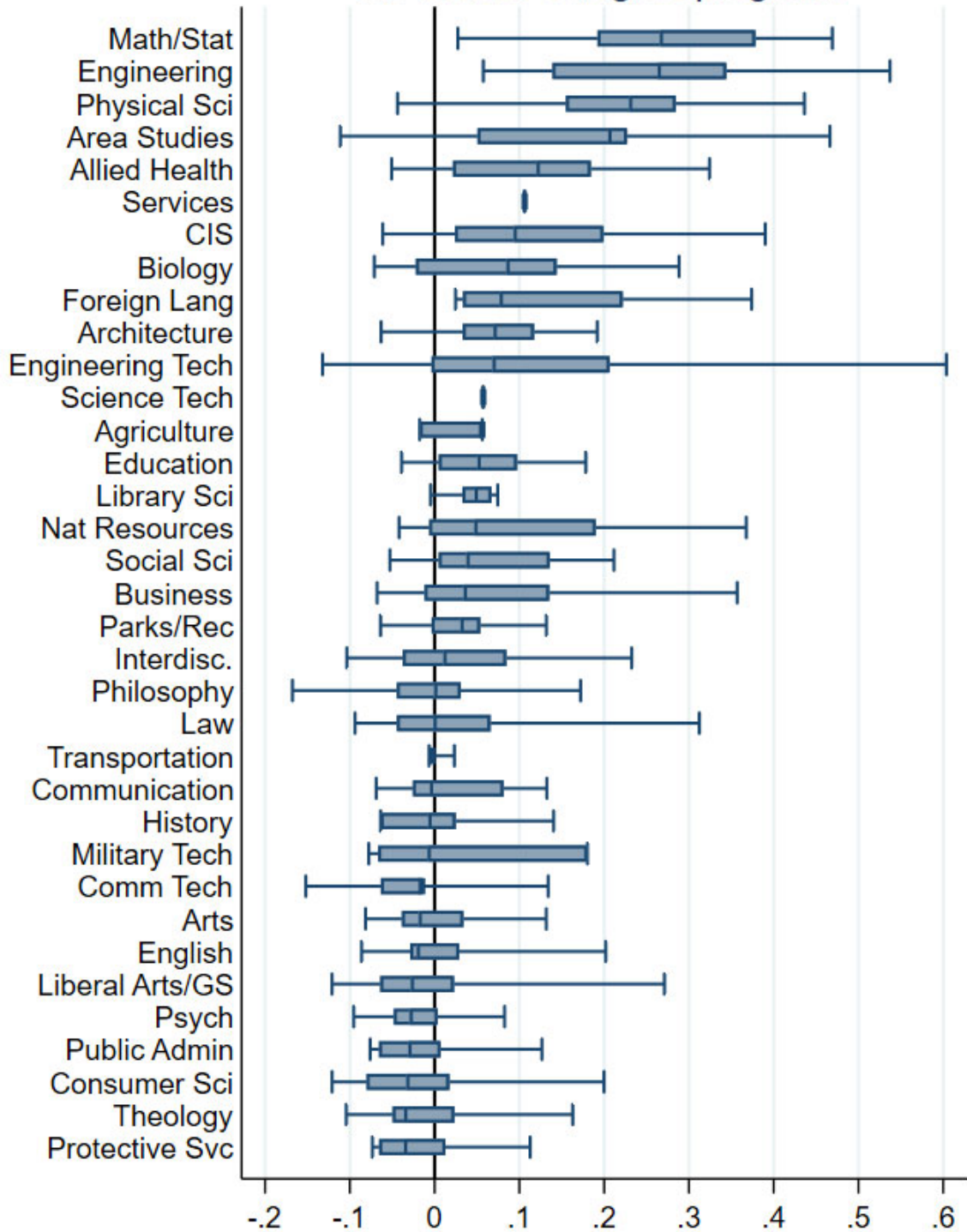
NP graduate certificate programs

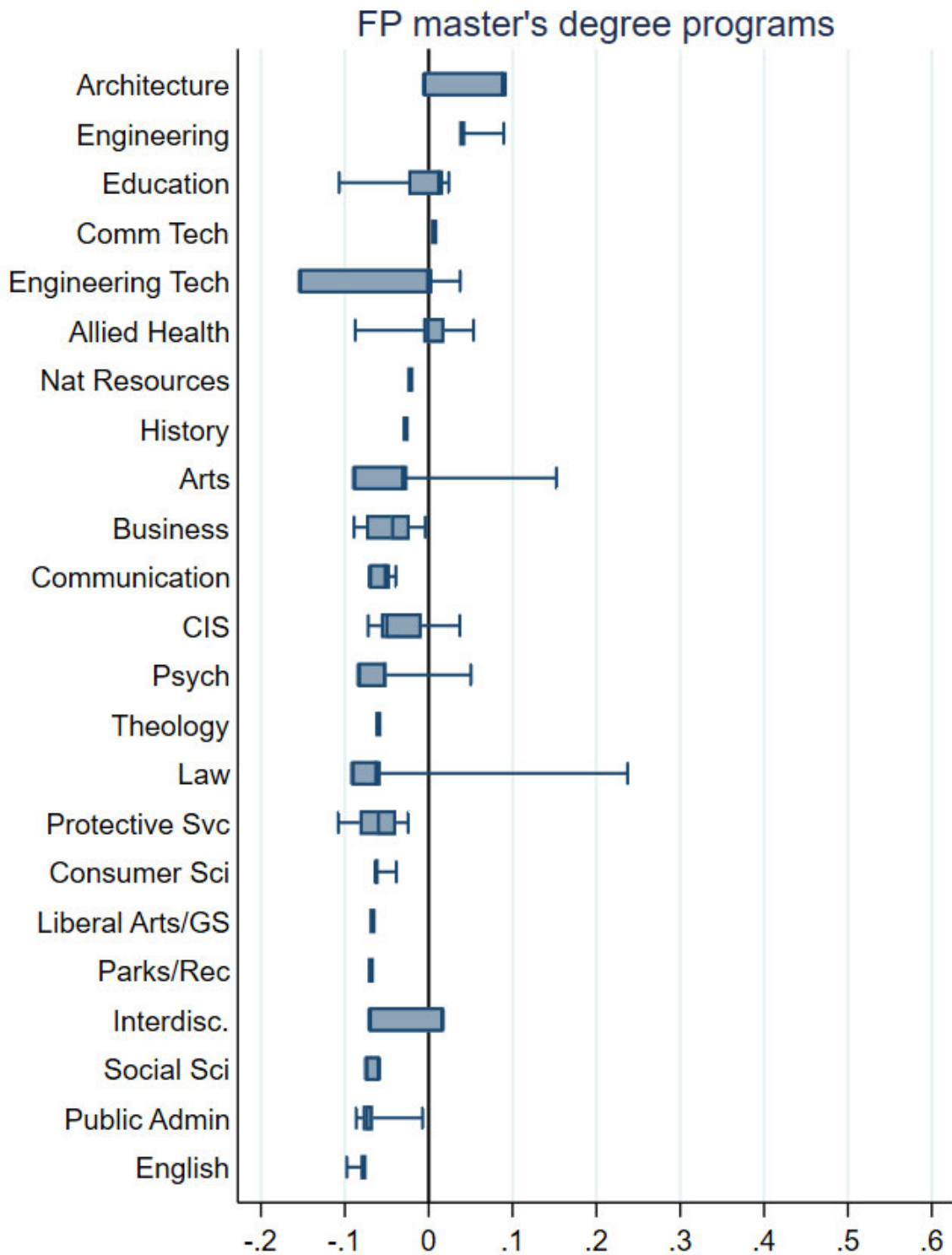


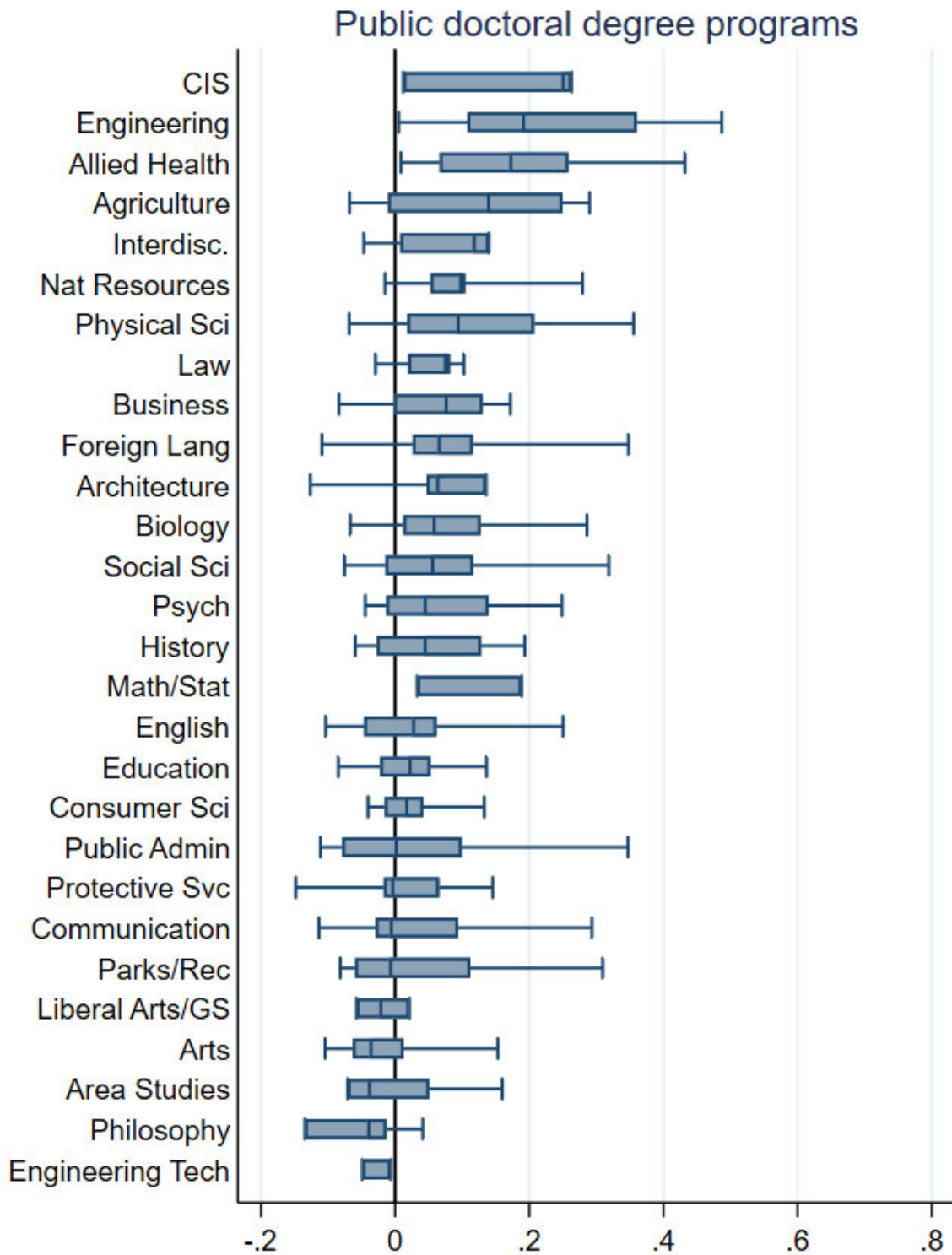


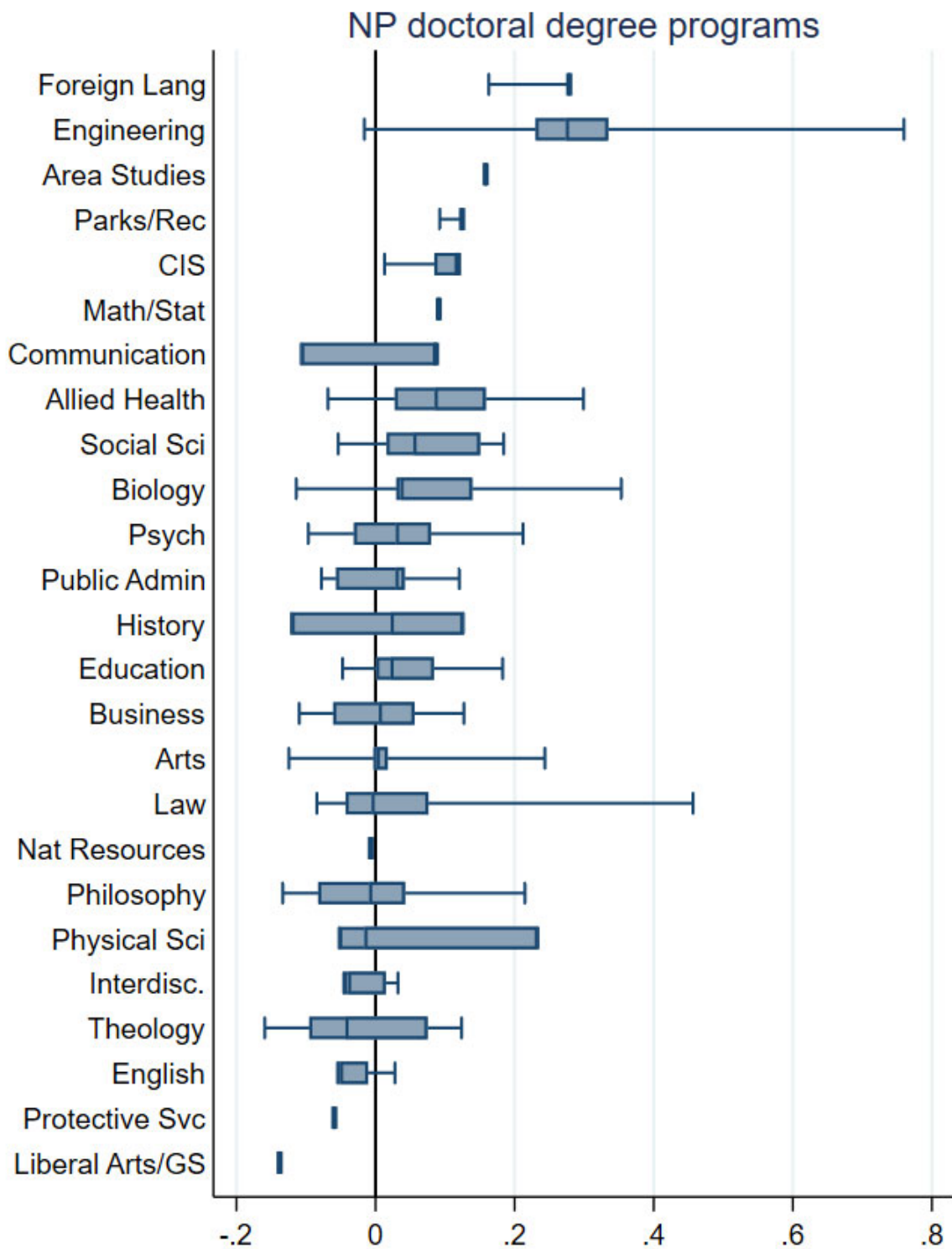


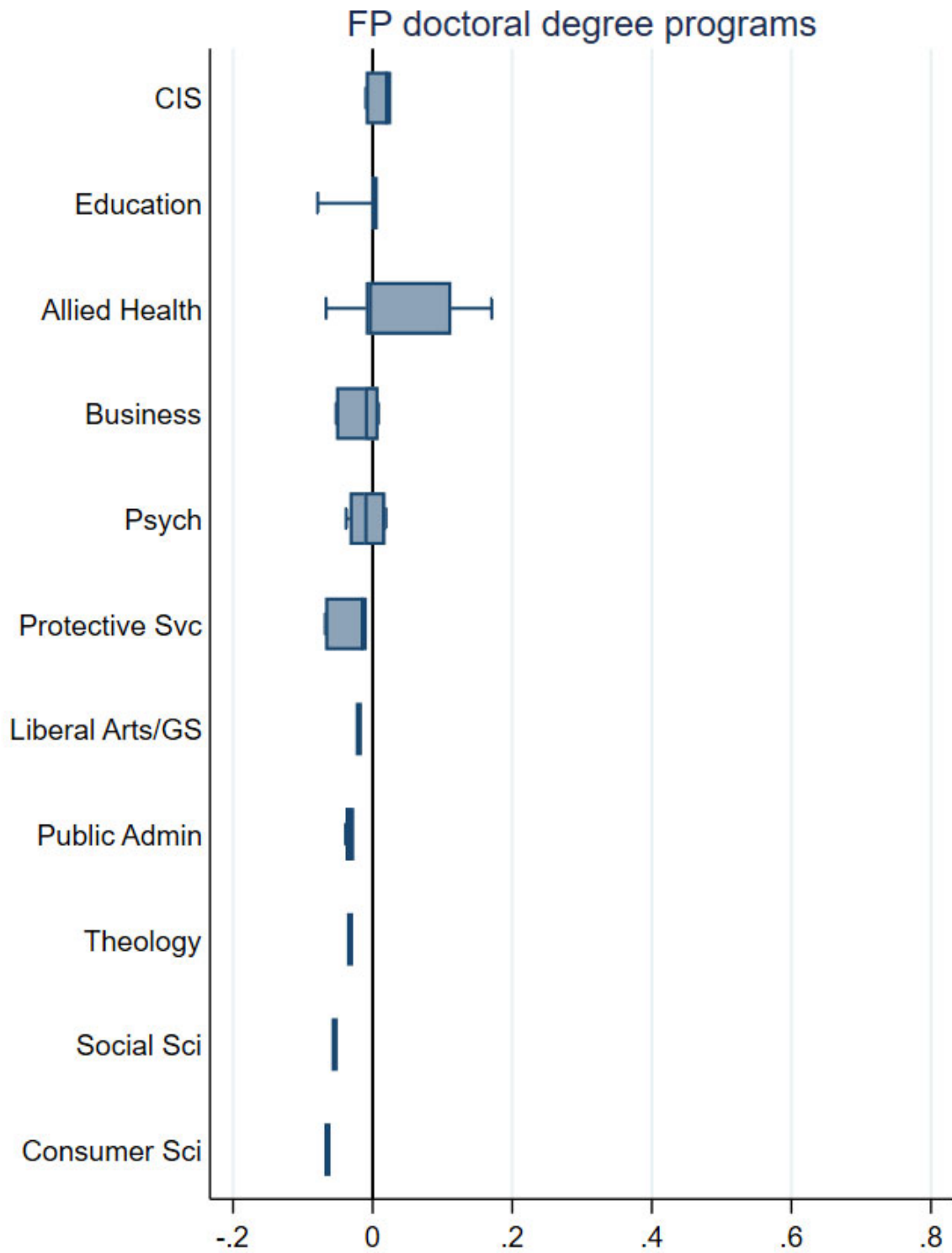
NP master's degree programs



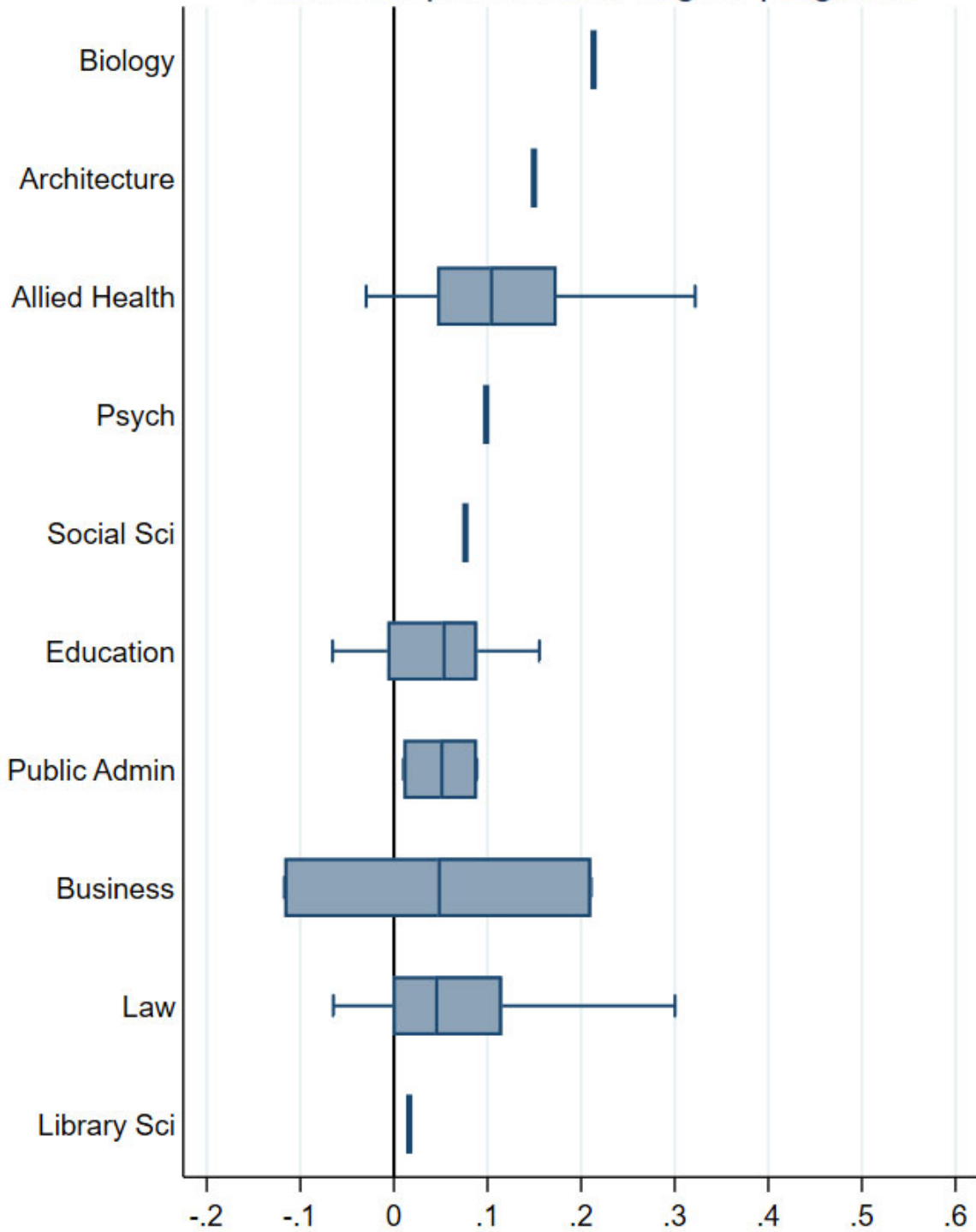


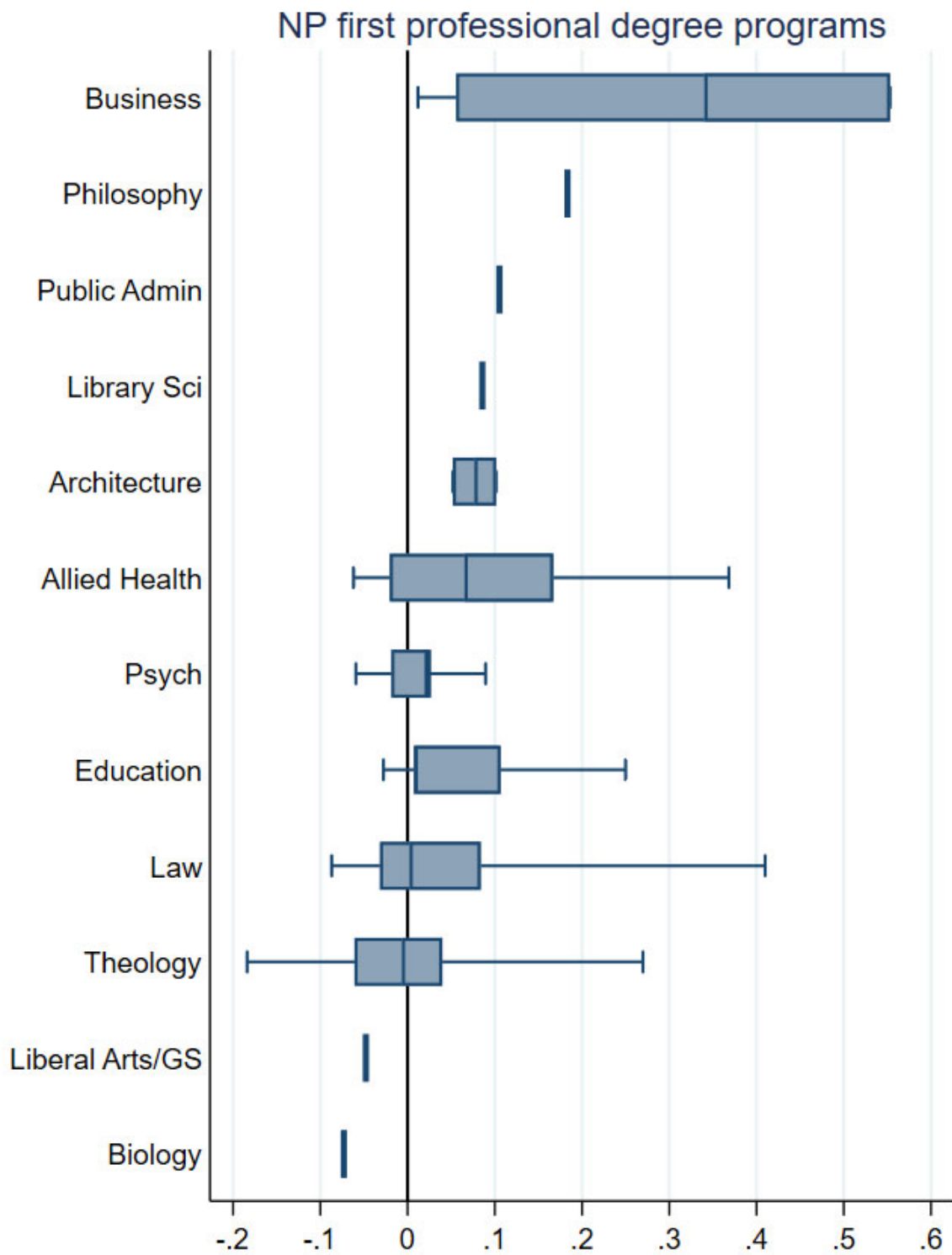






Public first professional degree programs





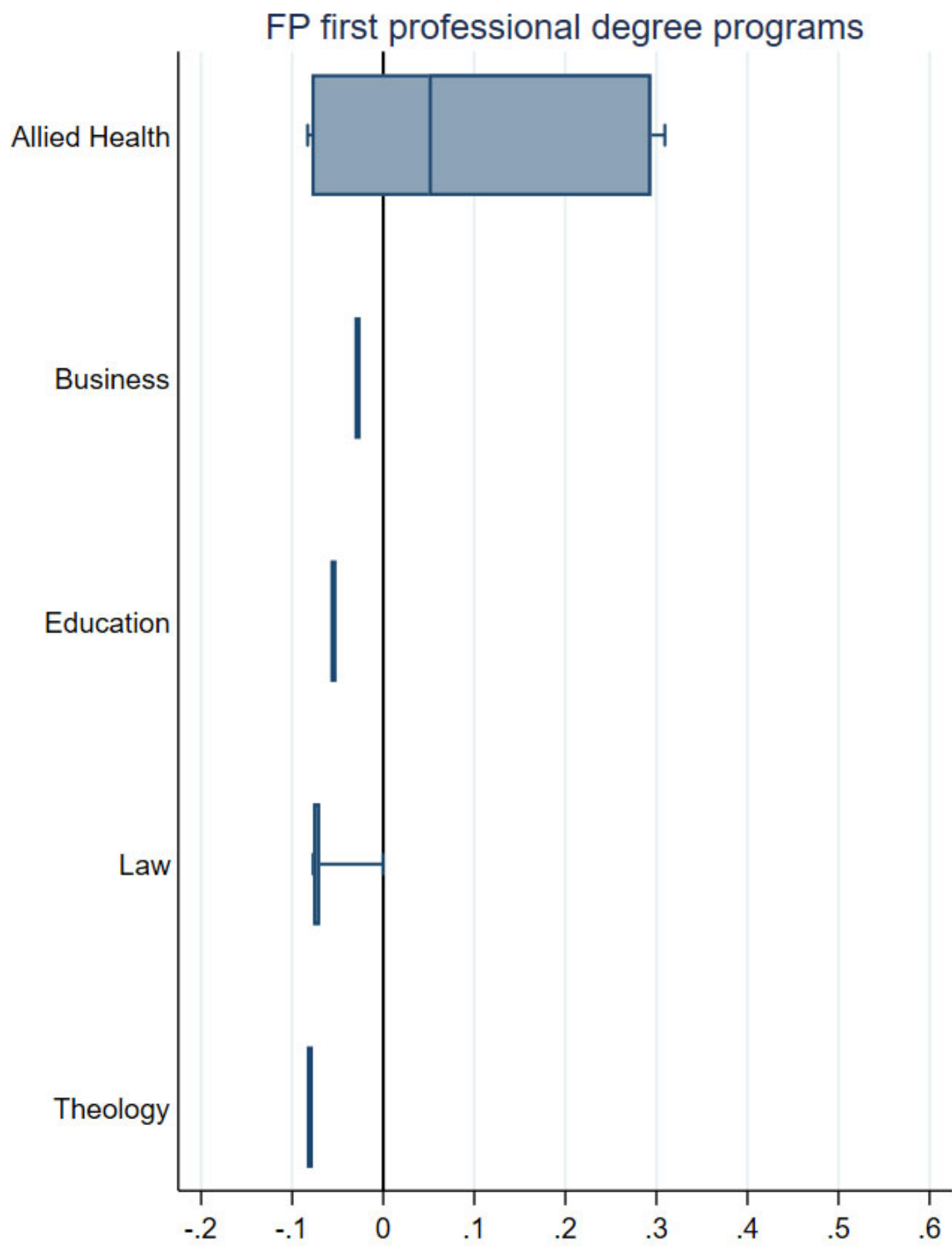
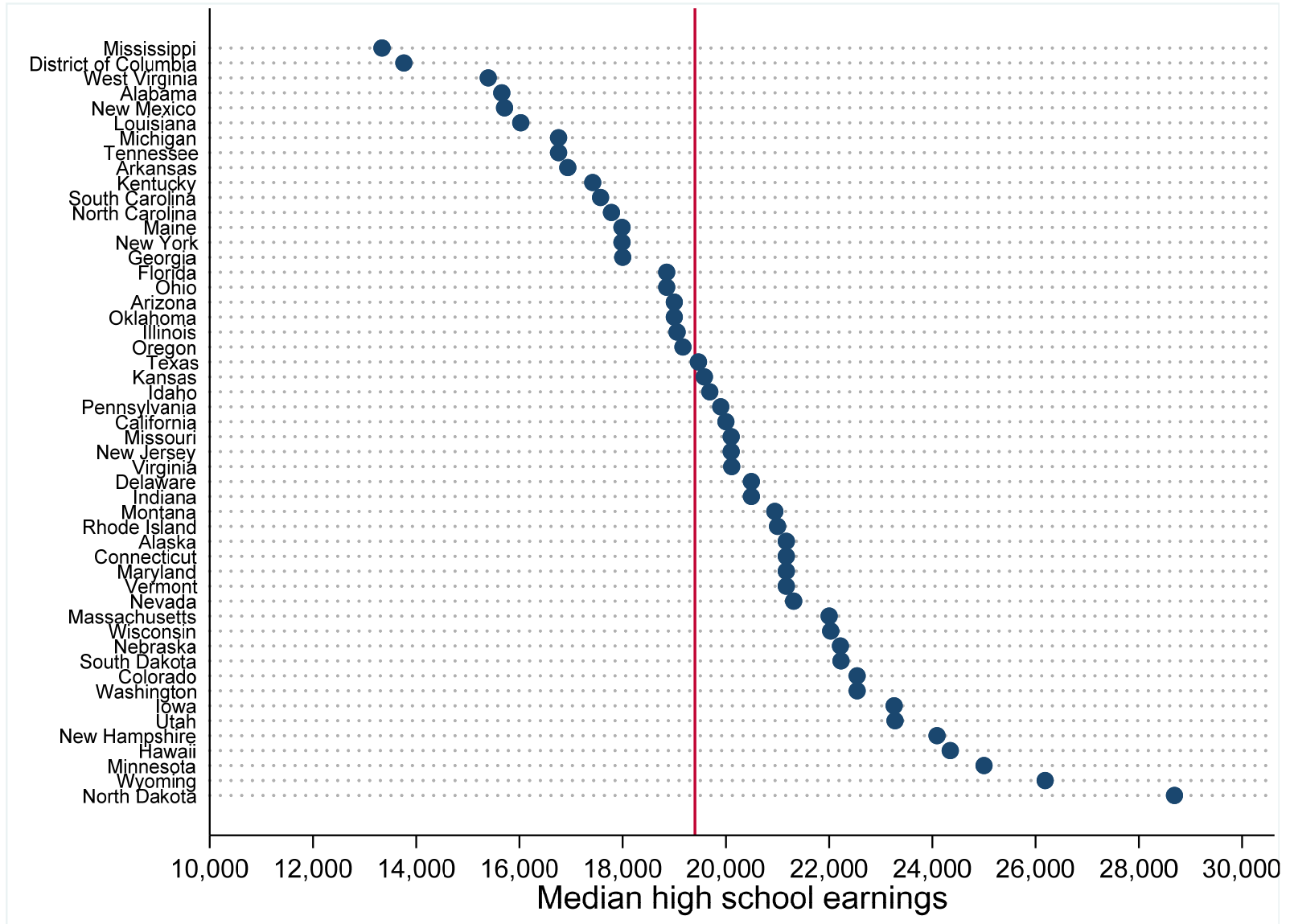
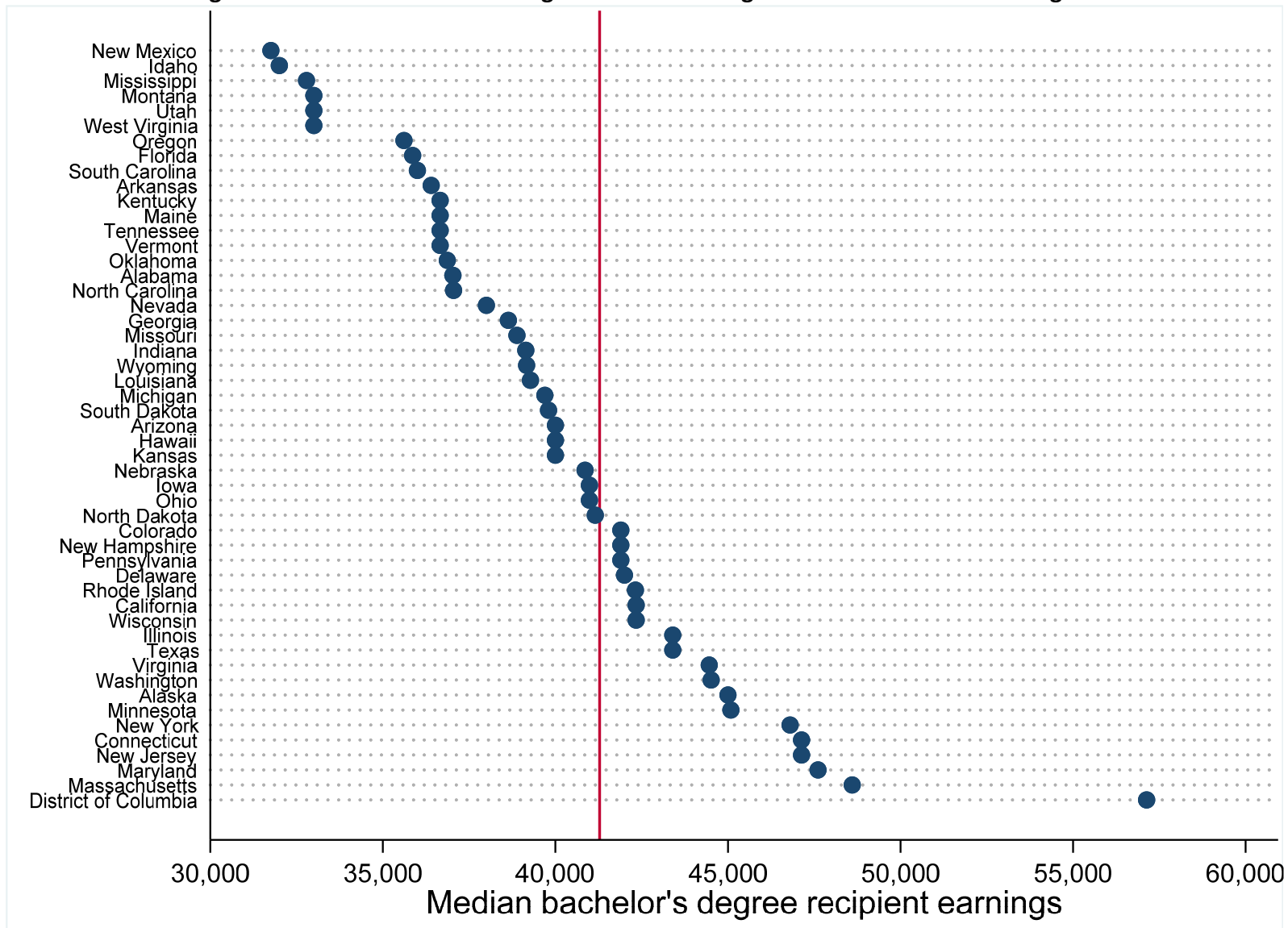


Figure A5: Median annual earnings for individuals aged 25-35 with high school diploma or GED



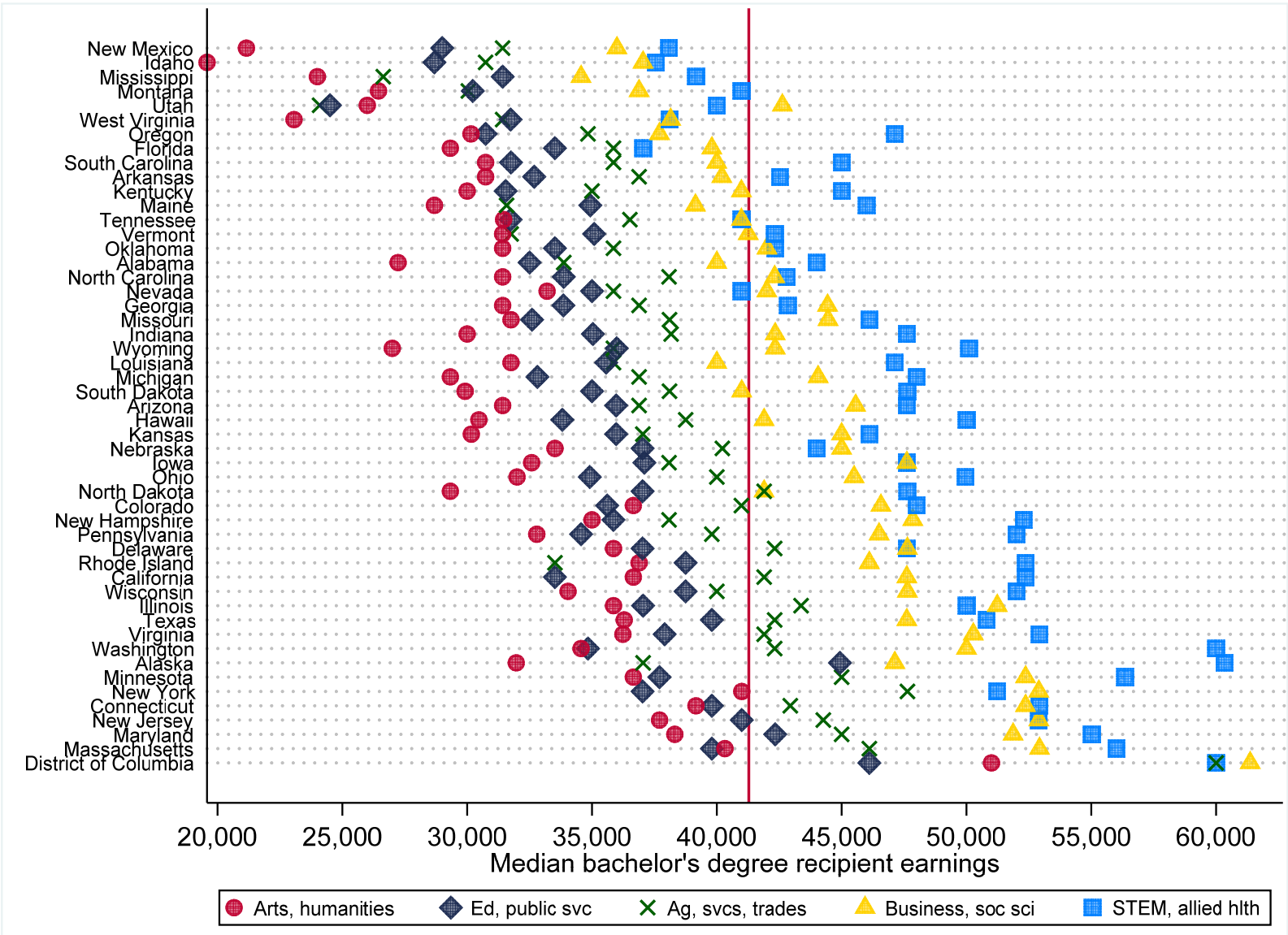
Note: Based on 2014-2018 ACS 5-year files, in 2018 dollars. Vertical line denotes U.S. median of \$19,400.

Figure A6: Median annual earnings for individuals aged 25-35 with bachelor's degree



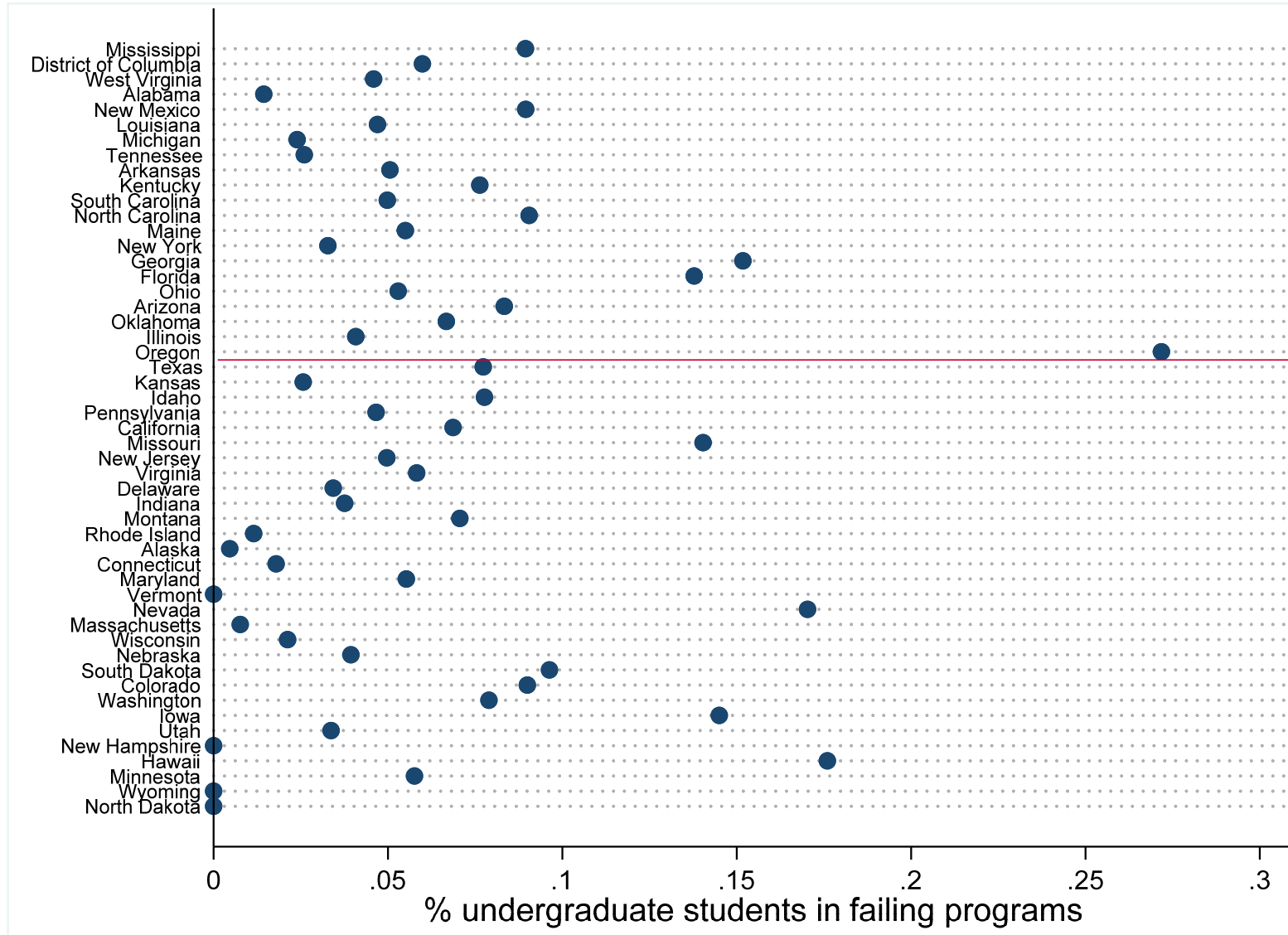
Note: Based on 2014-2018 ACS 5-year files, in 2018 dollars. Vertical line denotes U.S. median of \$41,282.

Figure A7: Median annual earnings for individuals aged 25-35 with bachelor's degree by field of study



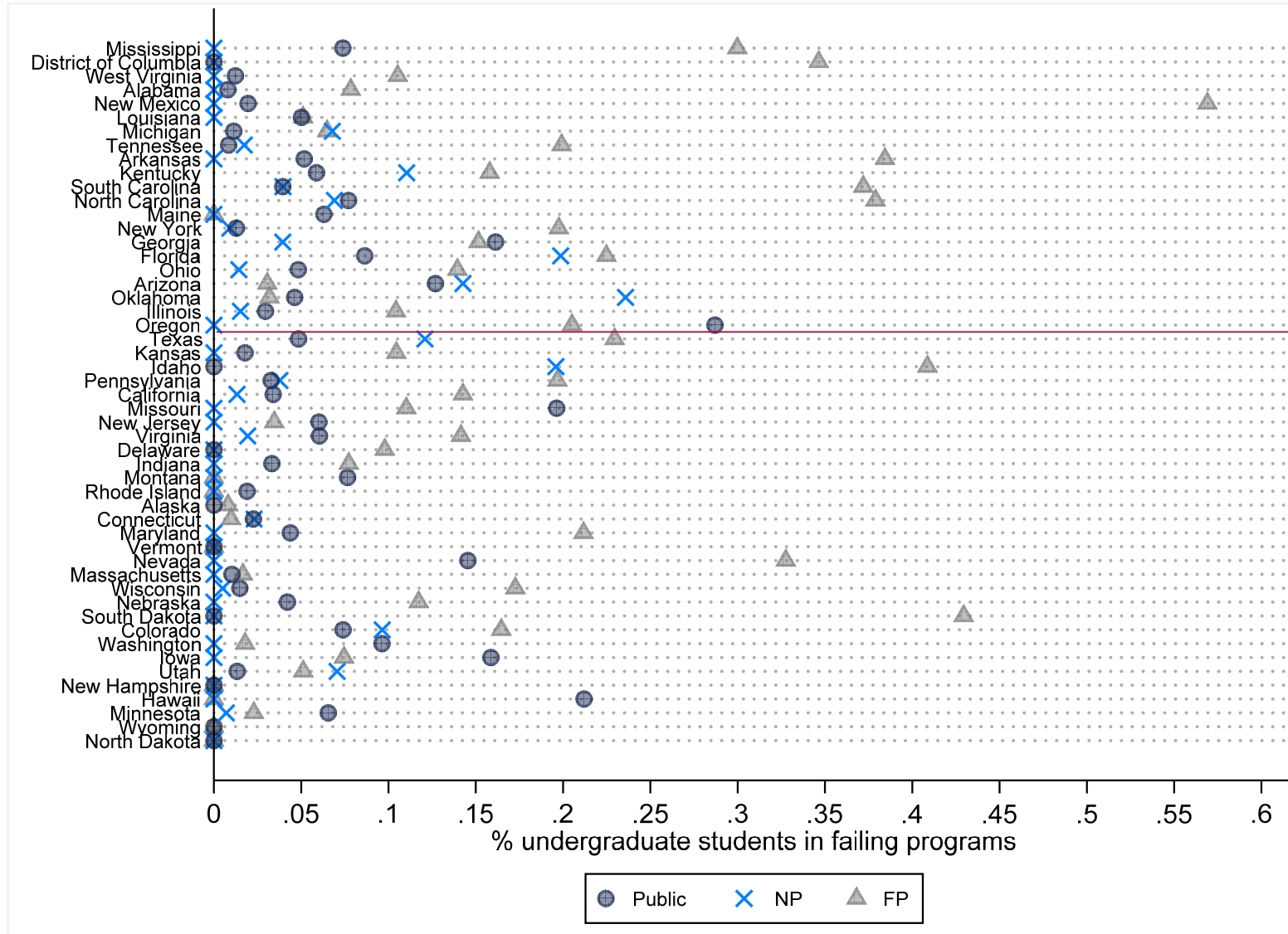
Note: based on 2014-2018 ACS 5-year files, in 2018 dollars. Vertical line denotes U.S. median of \$41,282.

Figure A8: Percent of undergraduate exiters in programs with a negative NEP and LRR



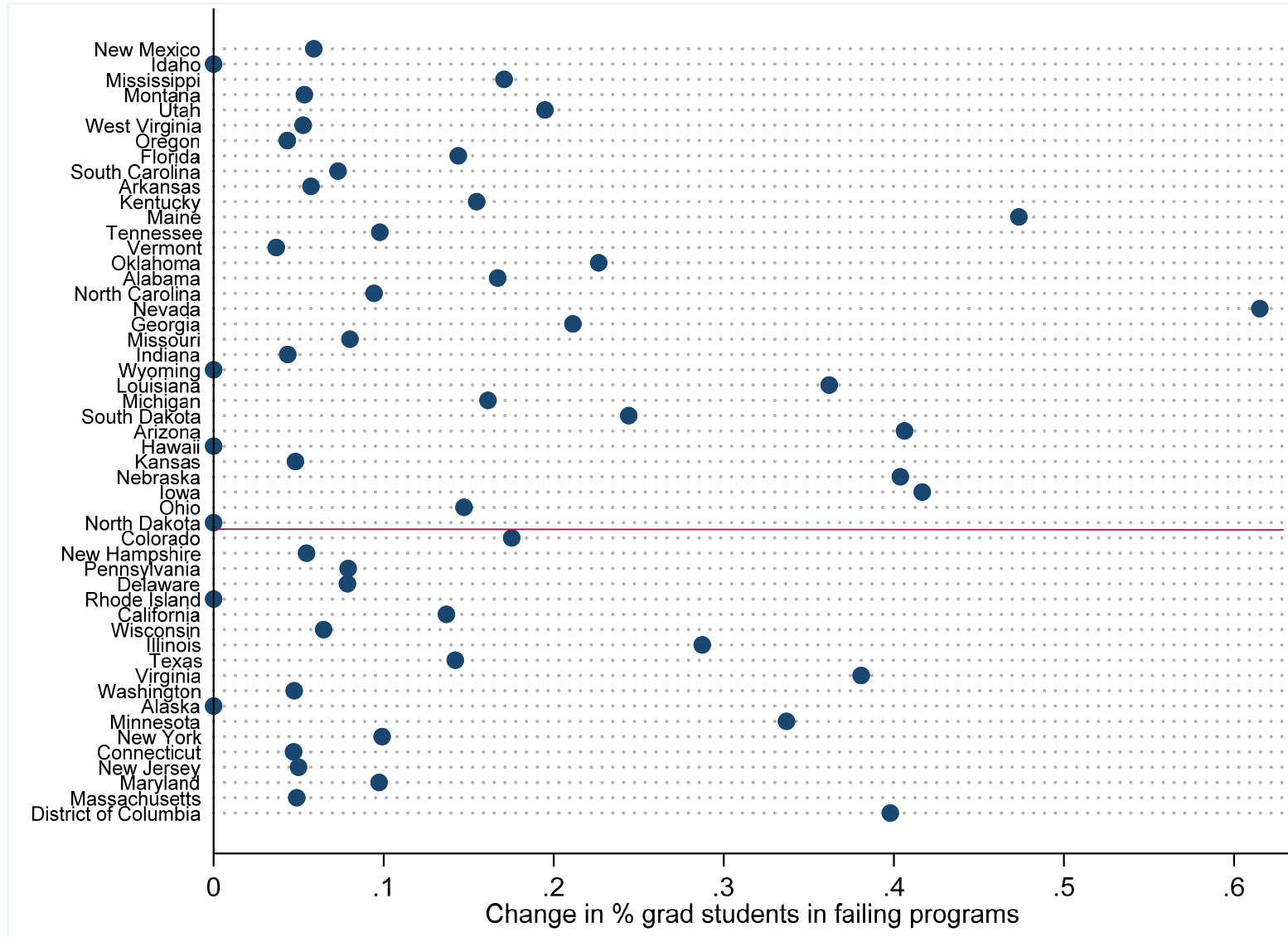
Notes: States are ordered according to median high school earnings (see Figure A5). The horizontal line denotes states with median earnings above the national median versus those with median earnings below the national median.

Figure A9: Percent of undergraduate exiters in programs with a negative NEP and LRR, by institutional control



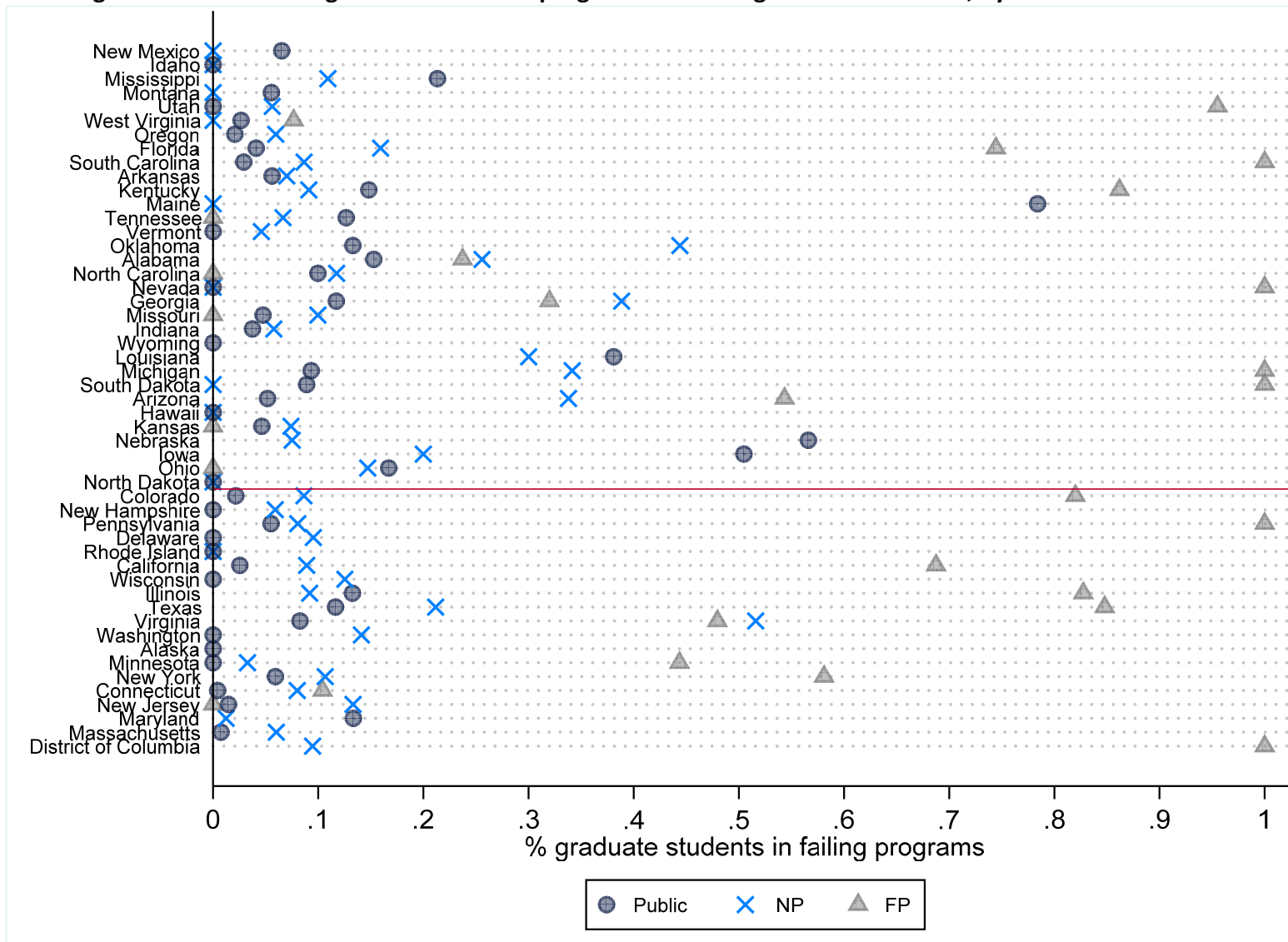
Notes: States are ordered according to median high school earnings (see Figure A5). The horizontal line denotes states with median earnings above the national median versus those with median earnings below the national median.

Figure A10: Percent of graduate exiters in programs with a negative NEP and LRR



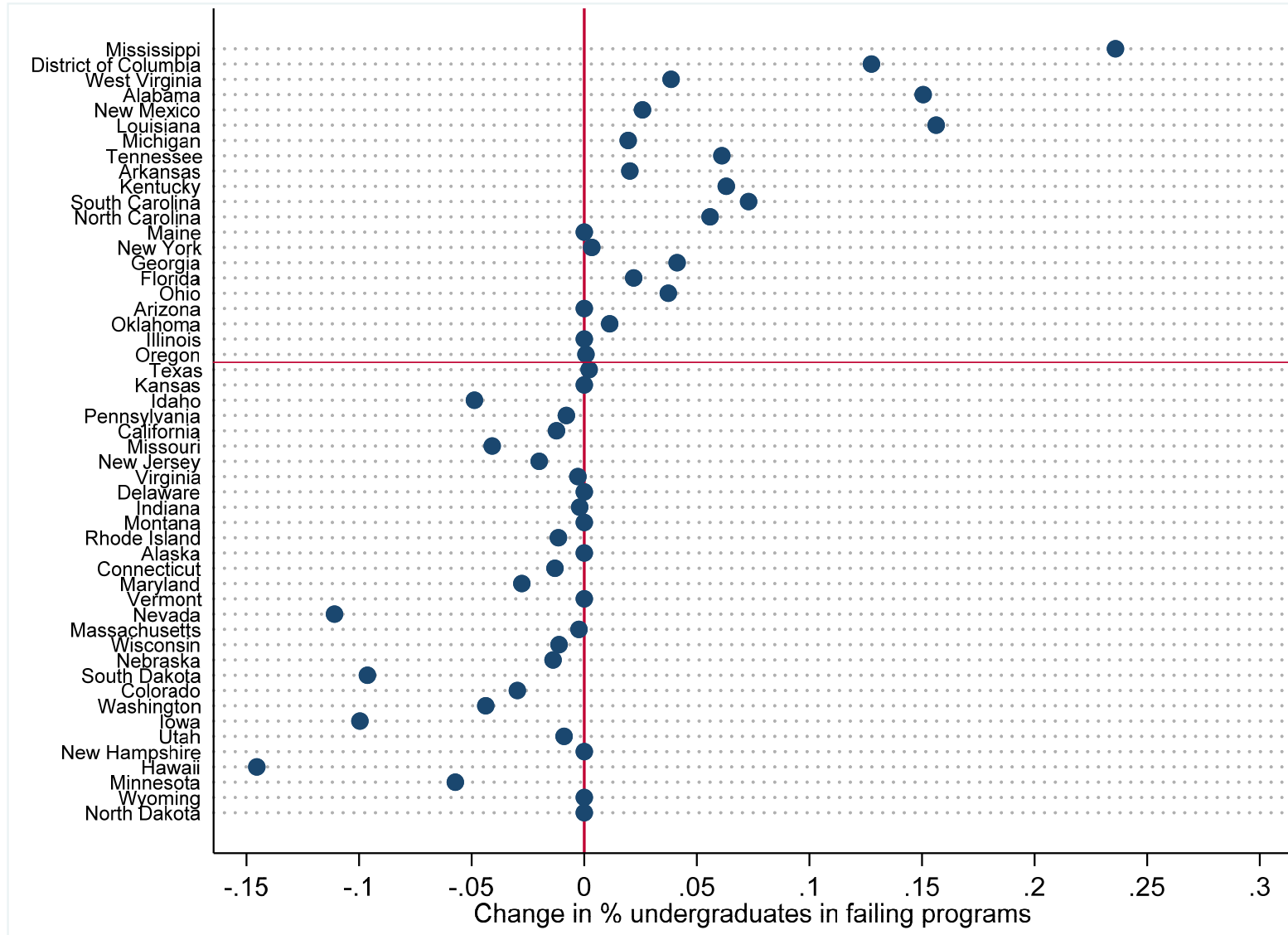
Notes: States are ordered according to median earnings of bachelor's degree recipients (see Figure A6). The horizontal line denotes states with median earnings above the national median versus those with median earnings below the national median.

Figure A11: Percent of graduate exiters in programs with a negative NEP and LRR, by institutional control



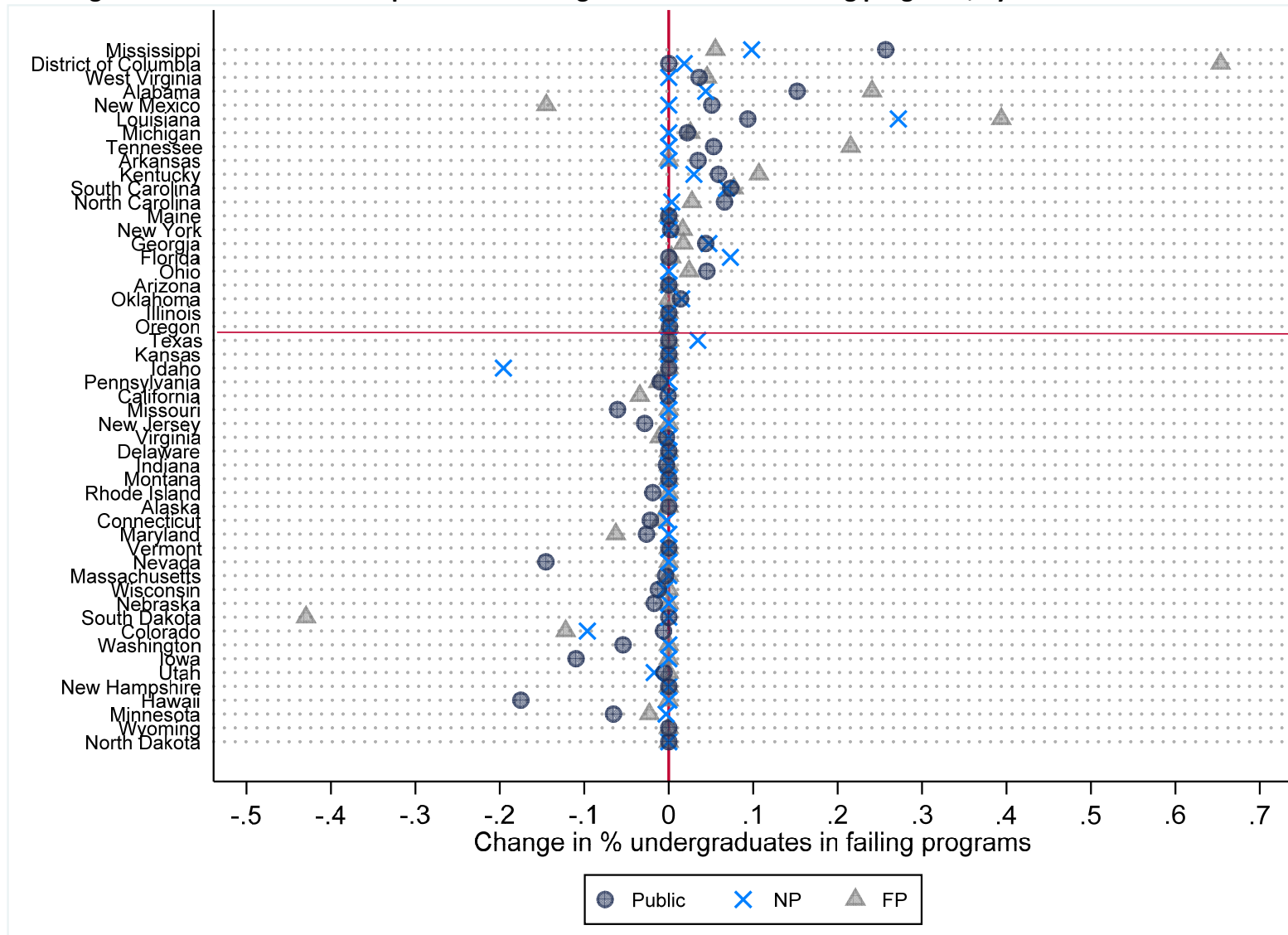
Notes: States are ordered according to median earnings of bachelor's degree recipients (see Figure A6). The horizontal line denotes states with median earnings above the national median versus those with median earnings below the national median.

Figure A12: Difference in percent of undergraduate exiters in failing programs using national vs state-specific earnings threshold



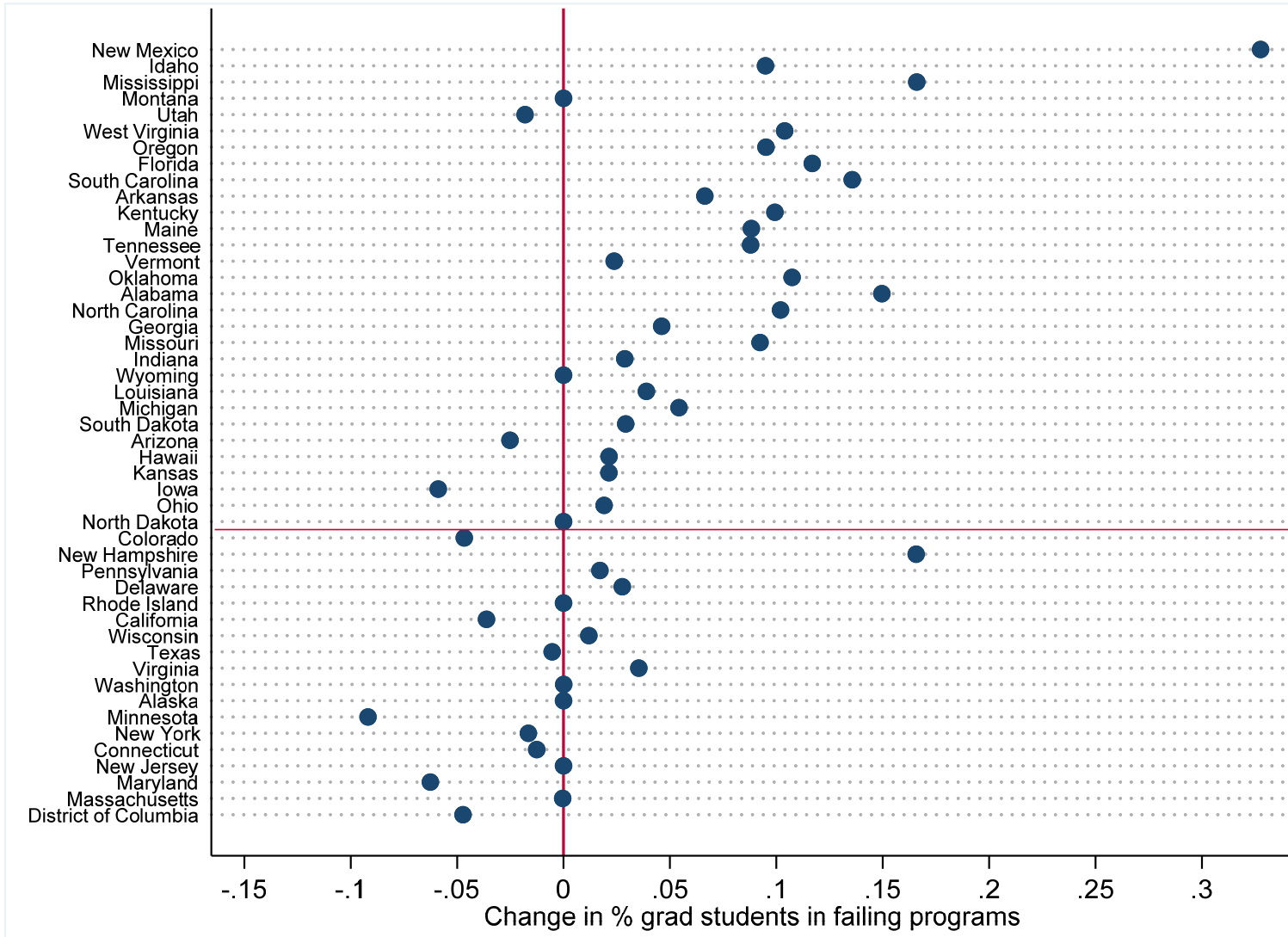
Notes: States are ordered according to median high school earnings (see Figure A5). The horizontal line denotes states with median earnings above the national median versus those with median earnings below the national median. The vertical line denotes the national median.

Figure A13: Difference in the percent of undergraduate exiters in failing programs, by institutional control



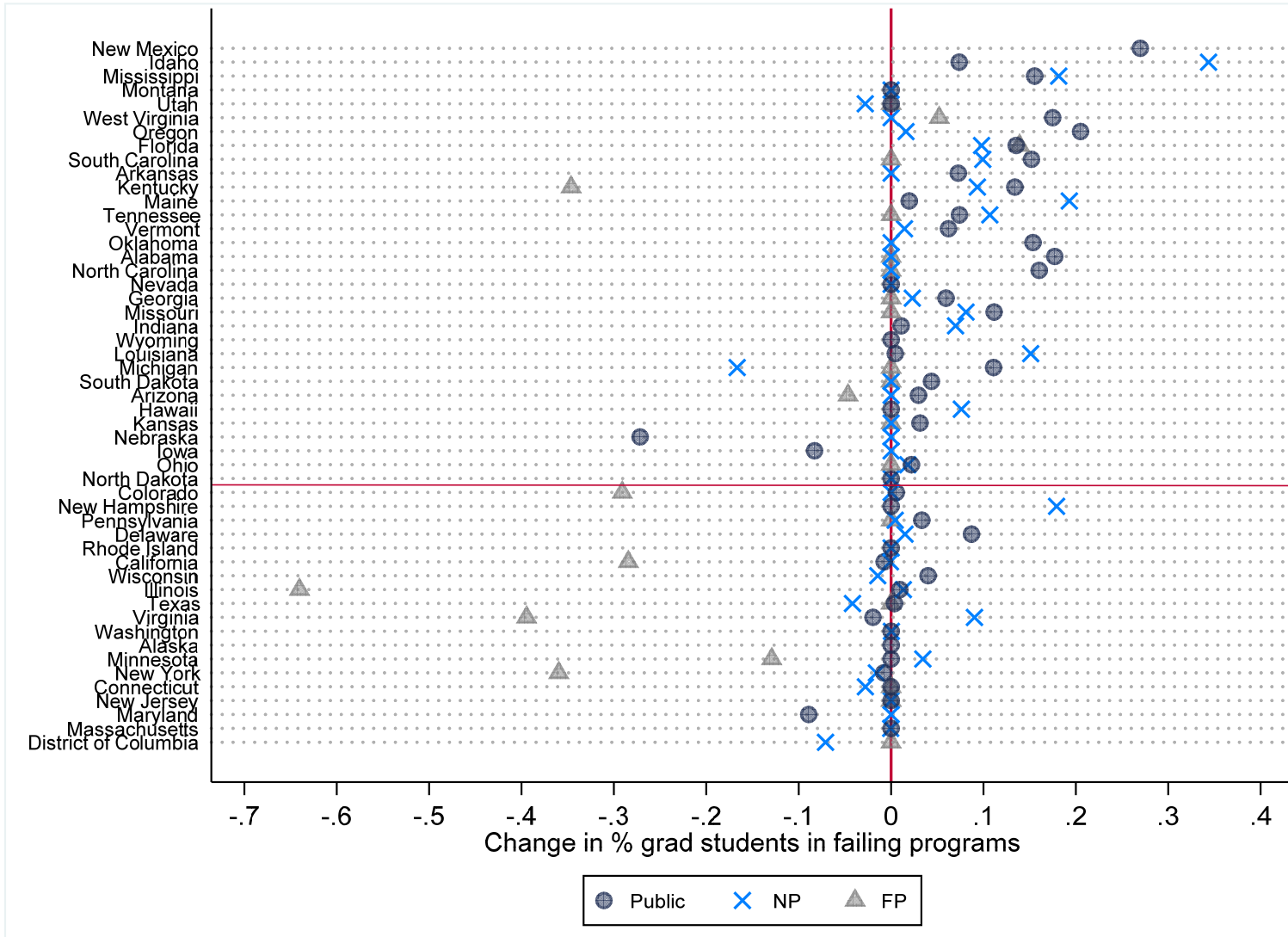
Notes: States are ordered according to median high school earnings (see Figure A5). The horizontal line denotes states with median earnings above the national median versus those with median earnings below the national median. The vertical line denotes the national median.

Figure A14: Difference in percent of graduate exiters in failing programs using national vs state-specific earnings threshold



Notes: States are ordered according to median bachelor's recipient earnings (Figure A6). The horizontal line denotes states with median earnings above the national median versus those with median earnings below the national median. The vertical line denotes the national median. Nevada is not shown (difference = -0.62).

Figure A15: Difference in the percent of graduate exiters in failing programs, by institutional control



Notes: States are ordered according to median bachelor's recipient earnings (Figure A6). The horizontal line denotes states with median earnings above the national median versus those with median earnings below the national median. The vertical line denotes the national median. Nevada for-profits (difference = -1) and New Mexico nonprofits (difference = 0.86) are not shown.

Figure A16: Cyclicity of Median Earnings by Degree Type

