

Supplement to:

Weeden, Kim A., Sarah Thébaud, and Dafna Gelbgiser.
2017. "Degrees of Difference: Gender Segregation
of U.S. Doctorates by Field and Program Prestige."
Sociological Science 4: 123-150.

Table S1: NRC fields, average GRE scores, and coding of fields into skill groups

NRC Field	Math GRE	Verbal GRE	Math Skill Group	Verbal Skill Group
Art History	562	535	2	4
Classics	598	565	3	5
Comp Literature	576	539	2	4
English	544	560	1	5
French	576	539	2	4
German	576	539	2	4
Linguistics	598	565	3	5
Music	551	486	1	3
Philosophy	629	591	3	5
Religion	598	565	3	5
Spanish	576	539	2	4
Biochem	626	484	3	3
Cell biology	626	484	3	3
Ecology, Evol. Bio	626	484	3	3
Molecular Bio	626	484	3	3
Neurobiology	626	484	3	3
Pharmacology	551	440	1	1
Physiology	551	440	1	1
Aerospace Eng	713	490	5	3
Biomedical Eng	713	490	5	3
Chemical Eng	729	487	5	3
Civil Eng	698	458	4	1
Electrical Eng	720	446	5	1
Industrial Eng	706	437	5	1
Materials Science	728	494	5	3
Mechanical Eng	720	470	5	2
Astrophysics	736	533	5	4
Chemistry	677	480	4	2
Comp Sci	690	448	4	1
Geosciences	633	493	4	3
Mathematics	737	507	5	4
Oceanography	589	470	2	2
Physics	736	533	5	4
Statistics	737	507	5	4
Anthropology	562	533	2	4
Economics	706	507	5	4
Geography	525	464	1	2
History	547	539	1	4
Political Science	586	527	2	4
Psychology	542	470	1	2
Sociology	545	491	1	3

Notes: Columns 2 and 3 list the average score of GRE test-takers who intend to enter a given field (ETS 2008). The groups in Columns 4 and 5 are as follows: 1=at least 1 SD below the (unweighted) cross-field average, 2=between 1/2 and 1 SD below average, 3=within 1/2 SD of the average, 4=between 1/2 and 1 SD above average, and 5=at least 1 standard deviation above average.

Table S2: Program and institutional characteristics by matching and imputation status

	IPEDS & NRC			NRC only, no IPEDS records		
	All IPEDS programs, ranked and unranked by NRC	Not ranked by NRC, only in IPEDS	Ranked by NRC, matched with IPEDS	All unmatched	Not imputed	Imputed using general field CIP code
Number of programs	5,067	1,796	3,271	284	65	219
Program features						
Absolute rank	NA	NA	52.8	88.4	74.2	92.6
Relative rank	NA	NA	48.8	69.1	68.7	69.2
Absolute prestige bucket, excluding unranked	NA	NA	5.7	6.6	6.3	6.6
Relative prestige decile, excluding unranked	NA	NA	5.4	7.4	7.3	7.4
Institutional features						
# of ranked programs	14.9	6.6	19.5	15.1	16.2	14.8
Public	65%	64%	66%	74%	78%	72%
Land grant	27%	20%	31%	17%	12%	18%
Offers medical degree	55%	38%	64%	41%	52%	38%
Fewer than 1,000 students	3%	8%	0%	4%	2%	5%
1,000-4,999 students	8%	12%	5%	10%	9%	10%
5,000-9,999 students	10%	12%	9%	8%	12%	6%
10,000-19,999 students	23%	26%	21%	29%	31%	29%
20,000 or more students	56%	41%	65%	50%	46%	51%

Note: The unranked programs in IPEDS are distributed across Carnegie types as follows: 28% RU/VH, 36% RU/H, 36% DRU/S/O.

Table S3: Field-specific scale values and strength of association parameter (phi) from saturated model of relative prestige segregation

Field	phi	top 10%	11-20%	21-30%	31-40%	41-50%	51-60%	61-70%	71-80%	81-90%	91-100%	RU/VH	RU/H	DRU/S/O
A. Estimated Parameters														
1 Art History	0.65	-0.10	-0.26	-0.24	-0.16	-0.02	-0.01	0.21	-0.16	0.50	0.30	-0.47	-0.04	0.45
2 Classics	0.53	-0.24	0.02	0.38	-0.12	-0.24	0.04	-0.23	0.08	0.03	-0.09	-0.27	-0.48	0.59
3 Comp Literature	0.55	0.03	-0.46	-0.33	-0.03	0.42	-0.05	-0.02	-0.10	0.69	0.02	-0.10	-0.05	-0.03
4 English	0.23	-0.52	-0.34	0.06	-0.15	-0.06	0.08	0.08	0.19	-0.31	0.06	0.13	0.14	0.63
5 French	0.61	-0.03	0.02	0.23	-0.19	0.02	-0.04	-0.10	-0.11	0.54	0.03	-0.05	0.35	-0.68
6 German	0.75	-0.47	-0.09	-0.01	-0.04	0.00	0.11	0.00	-0.45	0.03	0.39	0.15	0.58	-0.19
7 Linguistics	0.92	-0.19	-0.21	-0.17	0.23	0.19	-0.26	0.15	-0.32	-0.37	-0.10	0.08	0.45	0.51
8 Music	0.41	-0.50	-0.03	0.14	-0.24	0.30	0.47	0.13	0.40	0.03	-0.27	0.01	-0.30	-0.14
9 Philosophy	0.35	-0.24	0.04	0.18	0.00	0.01	-0.30	0.15	-0.13	-0.21	-0.42	-0.12	0.52	0.53
10 Religion	1.73	-0.18	-0.24	-0.12	-0.17	-0.12	-0.22	-0.07	-0.05	0.62	0.54	-0.24	0.02	0.22
11 Spanish	0.41	0.18	0.04	-0.13	-0.67	0.22	0.11	0.23	-0.16	0.01	0.24	-0.13	0.41	-0.35
12 Biochem	0.39	-0.40	-0.48	-0.10	-0.17	-0.20	-0.02	-0.05	0.18	-0.01	0.06	0.34	0.39	0.47
13 Cell biology	0.21	-0.10	-0.08	-0.27	0.07	-0.17	-0.04	-0.04	0.27	0.52	-0.45	0.44	0.18	-0.33
14 Ecology, Evol. Bio	0.53	-0.30	0.00	0.25	-0.16	0.11	-0.22	0.18	0.14	0.44	0.44	-0.16	-0.19	-0.51
15 Molecular Bio	0.32	0.02	0.19	-0.05	-0.58	0.12	0.34	0.23	-0.02	-0.76	0.17	0.14	-0.01	0.02
16 Neurobiology	0.36	-0.19	-0.31	0.09	0.14	0.19	0.50	0.18	-0.02	-0.40	-0.54	-0.02	0.47	0.10
17 Pharmacology	0.41	-0.09	0.02	-0.06	-0.51	-0.06	-0.13	0.00	0.04	-0.27	0.52	0.59	0.05	-0.10
18 Physiology	0.35	-0.28	-0.26	-0.38	-0.07	-0.35	0.02	-0.02	0.08	-0.18	0.36	0.40	0.45	0.23
19 Aerospace Eng	0.89	-0.35	0.06	0.02	-0.08	0.38	0.03	0.21	-0.22	0.58	-0.33	0.08	-0.42	0.05
20 Biomedical Eng	0.30	0.49	0.33	-0.40	-0.41	-0.03	-0.33	-0.06	0.13	-0.14	-0.02	0.12	0.39	-0.07
21 Chemical Eng	0.37	-0.12	-0.25	0.03	-0.16	-0.15	-0.53	0.12	0.32	0.14	-0.26	0.23	0.05	0.58
22 Civil Eng	0.40	-0.26	-0.21	-0.19	0.34	-0.22	-0.11	0.02	-0.28	-0.05	0.64	0.29	0.24	-0.21
23 Electrical Eng	0.51	-0.25	-0.34	-0.25	0.00	0.13	0.21	-0.19	0.05	0.65	0.03	0.38	-0.16	-0.26
24 Industrial Eng	1.33	-0.10	-0.13	-0.05	-0.26	-0.11	-0.23	0.14	0.77	-0.06	-0.05	-0.19	-0.12	0.40
25 Materials Science	0.75	0.16	-0.02	-0.17	-0.17	0.18	-0.08	-0.11	0.16	-0.73	0.21	0.10	-0.03	0.50
26 Mechanical Eng	0.41	0.07	-0.27	-0.43	-0.22	0.08	-0.43	0.09	0.46	-0.14	0.46	0.21	0.03	0.10
27 Astrophysics	0.80	0.00	-0.07	-0.23	-0.15	-0.44	-0.13	0.42	-0.05	-0.34	0.12	0.25	0.05	0.58
28 Chemistry	0.33	-0.39	-0.08	0.11	-0.07	-0.13	-0.25	-0.08	-0.11	-0.15	0.01	-0.05	0.51	0.66
29 Comp Sci	0.57	-0.21	-0.17	-0.12	-0.27	0.13	-0.23	-0.01	-0.32	0.37	-0.17	0.09	0.24	0.66
30 Geosciences	0.71	-0.43	-0.12	-0.21	-0.17	0.18	0.18	0.08	-0.19	-0.05	0.23	-0.16	-0.05	0.73
31 Mathematics	0.68	-0.58	-0.35	-0.20	0.01	-0.02	-0.27	0.06	0.20	0.11	0.48	0.31	0.19	0.06
32 Oceanography	1.16	-0.19	-0.05	-0.07	0.02	-0.11	-0.35	0.44	-0.27	0.16	-0.29	-0.17	0.53	0.56
33 Physics	0.45	-0.44	-0.23	-0.32	-0.14	-0.23	0.31	0.08	-0.09	-0.02	0.21	0.15	0.11	0.62
34 Statistics	0.49	-0.35	-0.06	-0.17	0.19	0.08	-0.12	-0.05	0.71	-0.38	-0.19	0.20	-0.08	0.23

Table S3: Field-specific scale values and strength of association parameter (phi) from saturated model of relative prestige segregation (continued)

Field	phi	top 10%	11-20%	21-30%	31-40%	41-50%	51-60%	61-70%	71-80%	81-90%	91-100%	RU/VH	RU/H	DRU/S/O
35 Anthropology	0.77	-0.15	-0.14	-0.08	-0.17	-0.14	-0.11	-0.05	-0.07	-0.06	-0.03	-0.02	0.08	0.93
36 Economics	0.36	-0.67	-0.14	-0.17	0.13	-0.01	-0.04	0.28	0.10	0.25	0.29	0.23	0.16	-0.42
37 Geography	0.33	0.24	0.08	-0.63	-0.06	0.42	0.00	-0.48	0.06	-0.16	0.16	0.07	0.26	0.04
38 History	0.39	-0.48	-0.40	-0.38	0.17	-0.05	0.15	-0.05	0.18	0.26	0.45	-0.21	0.22	0.14
39 Political Science	0.31	-0.05	-0.17	0.15	-0.06	0.07	0.25	0.01	-0.28	-0.46	-0.37	0.42	-0.04	0.52
40 Psychology	0.30	-0.50	-0.35	-0.08	0.08	-0.24	0.36	0.05	0.21	-0.09	0.41	-0.13	-0.12	0.41
41 Sociology	0.47	0.10	0.00	0.07	-0.08	0.05	-0.17	-0.33	-0.30	0.16	-0.35	-0.15	0.70	0.30
B. Male Overrepresentation														
1 Art History	1.07	1.18	1.17	1.11	1.02	1.01	0.87	1.11	0.72	0.82	1.35	1.03	0.75	
2 Classics	1.13	0.99	0.82	1.06	1.14	0.98	1.13	0.96	0.99	1.05	0.87	1.29	0.73	
3 Comp Literature	0.98	1.28	1.19	1.02	0.80	1.03	1.01	1.06	0.68	0.99	1.06	1.03	1.02	
4 English	1.13	1.08	0.99	1.03	1.01	0.98	0.98	0.96	1.07	0.99	0.97	0.97	0.86	
5 French	1.02	0.99	0.87	1.12	0.99	1.02	1.06	1.07	0.72	0.98	1.03	0.81	1.51	
6 German	1.42	1.07	1.01	1.03	1.00	0.92	1.00	1.40	0.98	0.74	0.90	0.65	1.16	
7 Linguistics	1.19	1.21	1.17	0.81	0.84	1.27	0.87	1.34	1.40	1.10	0.93	0.66	0.63	
8 Music	1.23	1.01	0.94	1.10	0.88	0.83	0.95	0.85	0.99	1.12	1.00	1.13	1.06	
9 Philosophy	1.09	0.99	0.94	1.00	1.00	1.11	0.95	1.05	1.07	1.16	1.04	0.84	0.83	
10 Religion	1.37	1.52	1.23	1.33	1.24	1.47	1.13	1.09	0.34	0.39	1.51	0.96	0.68	
11 Spanish	0.93	0.98	1.05	1.32	0.91	0.96	0.91	1.07	0.99	0.91	1.06	0.85	1.15	
12 Biochem	1.17	1.21	1.04	1.07	1.08	1.01	1.02	0.93	1.00	0.98	0.87	0.86	0.83	
13 Cell biology	1.02	1.02	1.06	0.98	1.04	1.01	1.01	0.94	0.90	1.10	0.91	0.96	1.07	
14 Ecology, Evol. Bio	1.18	1.00	0.87	1.09	0.94	1.13	0.91	0.93	0.79	0.79	1.09	1.11	1.31	
15 Molecular Bio	0.99	0.94	1.01	1.13	0.96	0.90	0.93	1.01	1.28	0.95	0.95	1.00	0.99	
16 Neurobiology	1.07	1.12	0.97	0.95	0.93	0.90	0.94	1.01	1.15	1.22	1.01	0.84	0.97	
17 Pharmacology	1.04	0.99	1.02	1.23	1.02	1.06	1.00	0.98	1.12	0.81	0.78	0.98	1.04	
18 Physiology	1.10	1.10	1.14	1.02	1.13	0.99	1.01	0.97	1.06	0.88	0.87	0.86	0.92	
19 Aerospace Eng	1.37	0.95	0.98	1.07	0.71	0.97	0.83	1.22	0.60	1.35	0.93	1.46	0.96	
20 Biomedical Eng	0.86	0.91	1.13	1.13	1.01	1.10	1.02	0.96	1.04	1.01	0.97	0.89	1.02	
21 Chemical Eng	1.04	1.10	0.99	1.06	1.06	1.22	0.96	0.89	0.95	1.10	0.92	0.98	0.81	
22 Civil Eng	1.11	1.09	1.08	0.87	1.09	1.04	0.99	1.12	1.02	0.77	0.89	0.91	1.09	
23 Electrical Eng	1.14	1.19	1.14	1.00	0.93	0.90	1.10	0.97	0.72	0.99	0.83	1.09	1.14	
24 Industrial Eng	1.15	1.19	1.07	1.42	1.16	1.35	0.82	0.36	1.08	1.07	1.30	1.17	0.58	
25 Materials Science	0.89	1.01	1.14	1.14	0.87	1.06	1.09	0.89	1.73	0.86	0.93	1.02	0.69	
26 Mechanical Eng	0.97	1.12	1.20	1.10	0.97	1.19	0.96	0.83	1.06	0.83	0.92	0.99	0.96	

Table S3: Field-specific scale values and strength of association parameter (phi) from saturated model of relative prestige segregation (continued)

Field	phi	top 10%	11-20%	21-30%	31-40%	41-50%	51-60%	61-70%	71-80%	81-90%	91-100%	RU/VH	RU/H	DRU/ S/O
27 Astrophysics	1.00	1.06	1.20	1.13	1.43	1.11	0.71	1.04	1.32	0.91	0.82	0.96	0.63	
28 Chemistry	1.13	1.03	0.96	1.02	1.04	1.09	1.03	1.03	1.05	1.00	1.02	0.85	0.81	
29 Comp Sci	1.12	1.10	1.07	1.17	0.93	1.14	1.01	1.20	0.81	1.10	0.95	0.87	0.69	
30 Geosciences	1.36	1.09	1.16	1.13	0.88	0.88	0.95	1.15	1.04	0.85	1.12	1.04	0.59	
31 Mathematics	1.49	1.27	1.15	0.99	1.02	1.20	0.96	0.87	0.93	0.72	0.81	0.88	0.96	
32 Oceanography	1.24	1.06	1.08	0.98	1.14	1.51	0.60	1.37	0.83	1.41	1.21	0.68	0.52	
33 Physics	1.22	1.11	1.15	1.07	1.11	0.87	0.96	1.04	1.01	0.91	0.93	0.95	0.76	
34 Statistics	1.19	1.03	1.09	0.91	0.96	1.06	1.02	0.71	1.21	1.10	0.90	1.04	0.89	
35 Anthropology	1.13	1.11	1.06	1.14	1.11	1.08	1.04	1.06	1.05	1.03	1.02	0.94	0.49	
36 Economics	1.27	1.05	1.06	0.95	1.00	1.01	0.90	0.97	0.91	0.90	0.92	0.94	1.17	
37 Geography	0.92	0.97	1.23	1.02	0.87	1.00	1.17	0.98	1.06	0.95	0.98	0.92	0.99	
38 History	1.21	1.17	1.16	0.93	1.02	0.94	1.02	0.93	0.90	0.84	1.08	0.92	0.95	
39 Political Science	1.02	1.05	0.95	1.02	0.98	0.92	1.00	1.09	1.15	1.12	0.88	1.01	0.85	
40 Psychology	1.16	1.11	1.03	0.98	1.07	0.90	0.98	0.94	1.03	0.89	1.04	1.04	0.89	
41 Sociology	0.95	1.00	0.97	1.04	0.98	1.08	1.17	1.15	0.93	1.18	1.07	0.72	0.87	

NOTE: Values in Panel A are the phi (overall association parameter) and raw scale values from the saturated model. Those in Panel B are the exponentiated product of the raw scale value multiplied by the overall association parameter (phi). Blue shading indicates male overrepresentation, pink shading indicates female overrepresentation, and no shading indicates neutral. N=406,721.