



National Academy of Kinesiology

**The National Academy of Kinesiology 2020
Review and Evaluation of Doctoral
Programs in Kinesiology**

Preliminary Report - 09/28/2020

ABSTRACT: The results of the 2020 review and ranking of US doctoral programs in kinesiology conducted by the National Academy of Kinesiology (NAK) are presented in tabular form. These results represent data collected for 2015, 2016, 2017, 2018, and 2019 calendar years. This is the fourth review conducted by the NAK, each representing five-years of data. The ranking reflect data collected on program faculty (productivity, funding, and visibility), and program students (admissions, support, publications, and employment). A total of 74 kinesiology doctoral programs were identified in US, they were all invited to participate in the review; 43 submitted the required data. There were nine components related to the faculty indices, and seven components related to the student indices. The faculty data were analyzed either using the raw data or with those data normalized with respect to each program's faculty size. The data for each index were first transformed into z-scores, and then the z-scores converted into T-scores. Weights were applied to the T-scores of the indices and then summed to obtain a total T-score. Programs were ranked in two ways: one based on the total T-scores from the data not normalized (unadjusted), and the other with total T-scores from the data normalized with respect to the number of faculty members in each program (adjusted). In addition to the rankings, T-scores for individual indices for each program are presented, as well as the correlation of these indices with the total T-score, and descriptive statistics for the indices. A number of faculty indices not used to determine the rankings are examined. Finally, the demographics of the kinesiology doctoral students over the review period are presented.

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Table 1: For the four NAK reviews of doctoral programs in kinesiology the number of programs participating (+number of new programs in review/-number of programs completing previous review but not current review) and the mean faculty size (median).

Review Year	Years for Data	Number of Programs	Faculty Size
2005	2000-2004	32	--
2010	2005-2009	36 (+9/-5)	13.7 (14.0)
2015	2010-2014	52 (+17/-1)	14.7 (14.0)
2020	2015-2019	43 (+4/-13)	15.0 (15.0)

Table 2: Overall final rank and total T-Score when both adjusted and unadjusted for faculty size.

Adjusted for size of faculty			Unadjusted for size of faculty		
Rank	University	T-Score	Rank	University	T-Score
1	University of South Carolina	72.68	1	University of Michigan	80.65
2	University of Michigan	68.34	2	University of North Carolina, Chapel Hill	71.79
3	University of Connecticut	65.04	3	Pennsylvania State University	70.09
4	Teachers College, Columbia University	63.22	4	University of South Carolina	69.82
5	University of North Carolina at Chapel Hill	61.91	5	University of Delaware	61.78
6	University of Mississippi	61.00	6	University of Mississippi	56.99
7	Pennsylvania State University	60.00	7	University of Illinois, Urbana-Champaign	56.97
8	University of Virginia	59.17	8	University of Wisconsin, Madison	56.28
9	University of Central Florida	58.07	9	University of Texas, Austin	55.57
10	Ohio State University	57.58	10	University of Utah	55.02
11	University of Minnesota	57.47	11	Indiana University	54.63
12	University of Southern California	57.36	12	University of Minnesota	54.03
13	University of Delaware	56.44	13	Auburn University	53.60
14	University of Illinois, Urbana-Champaign	56.37	14	University of Georgia	53.48
15	University of Texas, Austin	56.18	15	University of North Carolina, Greensboro	53.12
16	Rutgers University	55.92	16	University of Southern California	52.95
17	University of Utah	53.27	17	Ohio State University	52.80
18	University of Wisconsin, Madison	53.21	18	Iowa State University	52.72
19	University of Florida	52.94	19	University of Florida	52.71
20	Indiana University	52.67	20	University of Tennessee, Knoxville	51.68
21	Iowa State University	52.32	21	Michigan State University	51.06
22	Auburn University	49.99	22	University of Virginia	49.86
23	Michigan State University	48.85	23	University of Texas, Arlington	47.26
24	University of North Carolina, Greensboro	48.30	24	University of Maryland	47.25
25	University of Georgia	47.45	25	University of Connecticut	46.00
26	University of Massachusetts, Amherst	47.44	26	University of Massachusetts, Amherst	45.40
27	University of Tennessee, Knoxville	46.76	27	University of Nebraska, Omaha	45.27
28	University of Maryland	45.81	28	Teachers College, Columbia University	44.30
29	University of Arkansas	43.79	29	Florida State University	43.61
30	University of Nebraska, Omaha	43.39	30	Louisiana State University	43.39
31	University of Illinois, Chicago	42.98	31	University of Illinois, Chicago	42.91
32	Syracuse University	41.21	32	University of Central Florida	42.88

33	University of Alabama	41.04	33	Colorado State University	42.60
34	East Carolina University	40.81	34	Oregon State University	41.95
35	University of Texas, Arlington	40.10	35	Purdue University	40.78
36	Oregon State University	39.79	36	Rutgers University	40.09
37	Colorado State University	38.85	37	University of Oklahoma	39.81
38	Virginia Commonwealth University	37.95	38	University of Alabama	39.70
39	Florida State University	37.01	39	University of Arkansas	39.49
40	Purdue University	36.55	40	East Carolina University	38.65
41	Louisiana State University	36.12	41	Virginia Commonwealth University	37.32
42	University of Oklahoma	34.95	42	Mississippi State University	37.12
43	Mississippi State University	29.69	43	Syracuse University	36.63

Note: T-scores are presented to two-decimal places as this was required to determine the rank for some programs.

Table 3: T-Score results for faculty indices, adjusted for faculty size.

University	Publications	Book Chapters	Presentations	Federal Funding	Non-Federal Funding	Internal Funding	Editors	NAK Fellows	National Fellows
Auburn University	50	45	54	44	51	47	47	55	50
Colorado State University	46	42	35	45	55	55	40	71	47
East Carolina University	40	41	52	56	43	49	34	50	39
Florida State University	42	43	37	45	46	45	40	38	42
Indiana University	49	49	49	43	53	60	76	47	60
Iowa State University	46	46	46	50	48	44	44	48	52
Louisiana State University	43	47	45	42	40	45	55	42	42
Michigan State University	50	49	48	43	45	46	54	48	41
Mississippi State University	36	45	35	42	40	44	36	50	30
Ohio State University	51	57	71	47	57	47	70	62	76
Oregon State University	44	44	43	48	45	44	44	44	61
Pennsylvania State University	50	76	54	48	49	46	62	54	48
Purdue University	39	41	41	43	46	48	37	51	49
Rutgers University	55	57	67	71	46	57	53	38	70
Syracuse University	58	42	45	43	43	44	35	38	37
Teachers College, Columbia University	54	73	60	60	46	62	65	71	43
University of Alabama	49	47	60	41	43	47	44	38	41
University of Arkansas	49	50	75	42	55	44	44	38	48
University of Central Florida	71	49	51	41	47	65	43	38	55
University of Connecticut	69	75	71	45	76	47	55	59	54
University of Delaware	43	45	50	76	62	44	50	50	41
University of Florida	49	44	49	61	45	76	46	49	39
University of Georgia	48	51	44	44	44	45	50	62	51
University of Illinois, Urbana-Champaign	54	52	55	45	59	48	55	56	41
University of Illinois, Chicago	46	46	57	49	47	44	55	44	54
University of Maryland	41	51	37	46	51	44	58	60	49
University of Massachusetts, Amherst	45	43	44	51	46	49	42	53	56
University of Michigan	44	48	51	63	68	46	61	54	52
University of Minnesota	48	60	44	48	41	44	63	76	64
University of Mississippi	76	46	45	41	40	45	60	38	44
University of Nebraska, Omaha	47	44	46	63	41	57	42	44	39
University of North Carolina, Chapel Hill	61	46	63	51	74	46	50	48	54

University of North Carolina, Greensboro	44	50	40	47	42	45	50	63	50
University of Oklahoma	39	44	38	42	40	46	45	44	47
University of South Carolina	62	52	61	63	72	45	43	47	61
University of Southern California	47	43	61	57	46	45	42	44	59
University of Tennessee, Knoxville	43	50	47	43	40	44	50	42	44
University of Texas, Arlington	48	47	45	47	42	45	42	38	46
University of Texas, Austin	50	59	40	48	68	54	59	57	63
University of Utah	58	51	47	47	53	44	53	52	51
University of Virginia	55	51	57	52	55	76	63	60	73
University of Wisconsin, Madison	42	48	47	76	55	65	43	38	42
Virginia Commonwealth University	50	43	42	41	41	47	46	48	46

Table 4: Descriptive statistics, mean and standard deviation (SD), for assessed faculty indices by total T-score category (adjusted for faculty size).

Categories of total T-scores		Publications	Book Chapters	Presentations	Federal Funding	Non-Fed Funding	Internal Funding	Editors	NAK Fellows	National Fellows
<40 (N = 8)	<i>Mean</i>	15.4	0.7	17.7	\$102,831	\$61,723	\$29,282	1.0	0.1	0.5
	<i>SD</i>	4.2	0.4	3.3	\$91,388	\$70,096	\$34,658	0.5	0.1	0.3
40-49 (N = 14)	<i>Mean</i>	19.7	1.4	26.6	\$248,249	\$74,405	\$28,243	1.3	0.1	0.5
	<i>SD</i>	4.3	0.8	8.5	\$246,998	\$59,047	\$34,396	0.6	0.1	0.2
50-59 (N = 14)	<i>Mean</i>	23.7	2.2	29.1	\$570,012	\$174,552	\$125,453	1.9	0.2	0.8
	<i>SD</i>	7.0	1.2	7.9	\$539,720	\$100,906	\$146,385	0.9	0.1	0.4
≥60 (N = 7)	<i>Mean</i>	34.0	4.7	33.7	\$490,003	\$287,706	\$45,424	2.1	0.2	0.7
	<i>SD</i>	15.3	4.2	7.5	\$361,700	\$210,506	\$60,735	0.6	0.1	0.2
Total (N = 43)	<i>Mean</i>	22.5	2.1	26.9	\$365,310	\$139,375	\$62,883	1.6	0.1	0.6
	<i>SD</i>	9.6	2.2	8.8	\$404,201	\$134,220	\$98,472	0.8	0.1	0.3

Table 5: Descriptive statistics for the total funding reported for all faculty in the National Academy of Kinesiology 2020 Doctoral Program Review.

	N	Minimum	Maximum	Sum	Mean	SD
External federal funding	43	\$0	\$35,434,581	\$253,425,035	\$5,893,605	\$7,869,494
External nonfederal funding	43	\$65,140	\$11,936,686	\$100,521,471	\$2,337,709	\$2,885,873
Internal Funding	43	\$6,912	\$6,762,936	\$35,565,251	\$827,099	\$1,339,037

Table 6: The correlation between the assessed faculty indices and the programs total T-scores. Figures in parentheses refer to the contribution of the index to the total T-score (the weighting).

Index	Adjusted	Unadjusted
Publications (20%)	0.61**	0.83**
Books (5%)	0.55**	0.50**
Presentation chapters (5%)	0.54**	0.84**
Federal funding (15%)	0.43**	0.60**
External funding (Nonfederal) (8%)	0.64**	0.79**
Internal funding (3%)	0.23	0.11
Editorial boards (6%)	0.55**	0.76**
NAK Fellow (2%)	0.26	0.51**
National Fellows (2%)	0.47**	0.71**

* $p < .05$; ** $p < .01$.

Table 7: T-score results for student indices.

University	GRE Verbal	GRE Quant.	Assistantships (FTE)	Selectivity	Doctoral Publications	PostDoc	Employed
Auburn University	35	33	61	49	68	55	66
Colorado State University	48	45	43	24	41	41	39
East Carolina University	55	55	45	47	37	50	39
Florida State University	44	49	47	51	44	50	47
Indiana University	35	49	52	41	56	58	64
Iowa State University	52	70	61	56	52	46	50
Louisiana State University	48	47	40	46	40	38	51
Michigan State University	52	45	53	56	48	48	67
Mississippi State University	37	48	52	30	41	36	42
Ohio State University	45	39	44	53	62	55	76
Oregon State University	52	49	42	56	40	40	50
Pennsylvania State University	56	70	51	62	63	63	44
Purdue University	56	66	40	59	38	45	42
Rutgers University	48	51	33	52	37	40	38
Syracuse University	48	45	47	49	38	43	39
Teachers College, Columbia University	76	68	39	55	38	50	39
University of Alabama	44	37	47	45	56	40	64
University of Arkansas	52	37	39	56	45	46	42
University of Central Florida	64	58	50	63	46	40	46
University of Connecticut	39	45	43	41	54	51	50
University of Delaware	50	52	47	56	47	45	55
University of Florida	53	49	42	56	57	76	43
University of Georgia	46	46	50	50	61	61	61
University of Illinois, Urbana-Champaign	45	52	50	44	65	70	65
University of Illinois, Chicago	34	39	43	47	44	61	42
University of Maryland	60	58	43	56	49	63	45
University of Massachusetts, Amherst	50	42	54	62	49	60	46
University of Michigan	54	62	76	61	55	58	49
University of Minnesota	52	58	65	56	50	53	55
University of Mississippi	39	33	76	52	64	36	55

University of Nebraska, Omaha	38	52	45	24	39	41	40
University of North Carolina, Chapel Hill	60	60	42	45	71	46	50
University of North Carolina, Greensboro	44	41	67	55	44	53	52
University of Oklahoma	46	39	52	41	50	43	51
University of South Carolina	54	53	63	52	71	70	48
University of Southern California	67	75	52	62	50	60	50
University of Tennessee, Knoxville	56	41	68	61	53	36	61
University of Texas, Arlington	44	45	50	35	40	43	39
University of Texas, Austin	52	54	48	52	57	55	54
University of Utah	49	56	50	51	44	45	51
University of Virginia	47	45	46	56	64	46	52
University of Wisconsin, Madison	54	42	46	55	44	53	42
Virginia Commonwealth University	56	45	42	33	39	40	40

Table 8: Descriptive statistics, mean and standard deviation (SD), for assessed student indices by program total T-score category (adjusted for faculty size).

Categories of Total T-scores		GRE Verbal	GRE Quantitative	Assistantships (FTE)	Selectivity	Doctoral Publications	PostDocs	Employed in field
<40 (N = 8)	<i>Mean</i>	152.1	152.8	17.0	0.6	42.8	3.1	9.9
	<i>SD</i>	1.5	1.9	5.8	0.3	17.8	2.5	6.4
40-49 (N = 14)	<i>Mean</i>	151.8	151.7	24.2	0.4	73.4	8.2	15.9
	<i>SD</i>	1.9	1.7	10.7	0.2	44.4	5.4	13.4
50-59 (N = 14)	<i>Mean</i>	152.7	154.1	21.8	0.4	93.8	9.9	19.8
	<i>SD</i>	1.9	2.4	9.1	0.1	40.5	6.4	14.2
≥60 (N = 7)	<i>Mean</i>	154.1	154.6	30.8	0.4	128.9	10.3	12.6
	<i>SD</i>	4.2	3.2	19.8	0.1	56.2	6.7	6.0
Total (N = 43)	<i>Mean</i>	152.5	153.2	23.2	0.4	83.3	8.2	15.5
	<i>SD</i>	2.4	2.4	11.8	0.2	48.5	6.0	12.0

Table 9: The correlation between the assessed student indices and the programs total T-score. Figures in parentheses refer to the contribution of the index to the total T-score (the weighting).

Index	Adjusted	Unadjusted
Average GRE – Verbal (5%)	0.29	0.09
Average GRE – Quantitative (5%)	0.32*	0.31*
Assistantships (FTE) (13%)	0.32*	0.52**
Selectivity (2%)	0.44**	0.34*
Doctoral publications (2%)	0.60**	0.68**
Postdoctoral positions (4%)	0.44**	0.47**
Positions in field (3%)	0.22	0.29

* $p < .05$; ** $p < .01$.

Table 10: Descriptive statistics mean (median) and standard deviation (SD) for non-assessed faculty indices by total T-score category, adjusted for faculty size.

Categories of Total T-Scores		Courses per Semester	% Effort Teaching	% Effort Research	% Effort Service	h-index	Number of Citations
<40^a (N = 8)	Mean SD	1.5 (1.3) 0.3	34.5 (31.9) 4.7	43.9 (40.5) 8.2	21.1 (21.0) 7.2	18.8 (20.2) 4.2	1934 (2113) 787
40-49^b (N = 14)	Mean SD	1.6 (1.6) 0.3	36.5 (35.6) 5.8	41.8 (41.3) 6.5	20.9 (22.0) 5.9	25.0 (25.3) 5.2	4018 (3259) 2572
50-59^c (N = 14)	Mean SD	1.4 (1.5) 0.4	33.9 (35.6) 8.6	45.1 (43.6) 8.0	20.9 (20.3) 5.3	28.9 (28.2) 6.7	4847 (4454) 2384
≥60 (N = 7)	Mean SD	1.6 (1.7) 0.3	38.3 (40.0) 7.5	41.0 (41.5) 5.6	20.8 (19.2) 4.7	29.8 (30.4) 4.8	5892 (5703) 2226
Total^c (N = 43)	Mean SD	1.5 (1.5) 0.3	35.6 (35.7) 6.9	43.1 (41.6) 7.1	20.9 (20.3) 5.5	26.1 (25.4) 6.6	4265 (3790) 2494

Note: ^a N=7 programs from this category provided responses for these variables.

^b Sample size was 13 for h-index, and Number of Citations.

^c Sample size was 42 for Courses per Semester, % Effort Teaching, % Effort Research, and % Effort Service and 41 for h-index and Number of Citations.

Table 11: The correlation coefficients between two sets of faculty indices, specifically those indices not used in program ranking (e.g., courses per semester) and those used in the ranking (e.g., number of faculty publications).

	Publications	Book Chapters	Present-ations	Federal Funding	External Funding (Nonfed)	Internal Funding	Editorial Boards	National Academy Members	National Fellows
Courses per semester	-0.06	0.13	-0.09	-0.18	-0.10	-0.11	0.05	-0.09	-0.15
Percentage of effort teaching	-0.01	0.37*	0.04	-0.10	-0.05	-0.12	0.31*	0.30	0.09
Percentage of effort research	0.02	-0.34*	0.07	0.35*	0.19	0.24	-0.17	-0.14	-0.08
Percentage of effort service	0.01	-0.03	-0.12	-0.29	-0.16	-0.15	-0.17	-0.19	-0.003
h-index	0.12	0.30	0.21	-0.02	0.09	0.17	0.24	0.29	0.27
Number of citations	0.09	0.22	0.18	-0.01	0.11	0.05	0.14	0.24	0.25

* $p < .05$.

Note: Values in this table are based on the 42 programs who provided these data.

Table 12: Demographics of doctoral students in kinesiology for the survey years of 2015 to 2019 compared with data from the National Science Foundation for recipients of a doctoral degree in 2018.

Race	US ^a			NAK		
	2018	2015	2016	2017	2018	2019
Hispanic or Latino ^b	3603 (6.5)	---	---	---	---	---
American Indian or Alaska Native	116 (0.2)	5 (0.7)	4 (0.5)	6 (0.8)	6 (0.7)	6 (0.7)
Asian	14815 (26.8)	104 (13.9)	107 (13.7)	115 (14.7)	123 (15.1)	115 (13.7)
Black or African American	3058 (5.5)	38 (5.1)	41 (5.3)	41 (5.2)	42 (5.2)	58 (6.9)
Native Hawaiian or Other Pacific Islander ^c	---	1 (0.1)	1 (0.1)	1 (0.1)	1 (0.1)	0 (0.0)
White	28585 (51.8)	468 (62.7)	512 (65.7)	510 (65.2)	524 (64.4)	531 (63.4)
More than one race	1213 (2.2)	28 (3.8)	25 (3.2)	21 (2.7)	22 (2.7)	29 (3.5)
Other race or race not reported	862 (1.6)	102 (13.7)	94 (12.1)	88 (11.3)	107 (13.1)	102 (12.2)
Ethnicity not reported ^b	2943 (5.3)	---	---	---	---	---
Total	55195	746	779	782	814	837

^aThese data indicate number of doctorates awarded by race and ethnicity for US doctoral students (National Center for Science and Engineering Statistics, 2019).

^bThese data were not collected by the NAK this evaluation period.

^cThese data were not reported by NSF this reporting period.