Report on 2017–2018 Academic Recruitment, Hiring, and Attrition

Amanda L. Golbeck, Thomas H. Barr, and Colleen A. Rose

Each year in academic mathematical sciences departments around the United States, new full-time faculty are recruited, and a subset of those positions are filled. The hiring infuses into the faculty a new cohort of mathematical scientists actively engaged in research and teaching. At the same time, others retire, take jobs elsewhere, or die, and this process removes a segment of the population of mathematical scientists. This report provides a snapshot of that process to aid in understanding the current status of such variables as: hiring rates, gender distribution, position type, and prior experience. Along with current data the report provides historical context to aid the reader in discerning trends and patterns. For further details, including all tables generated to prepare this report, please see www.ams.org/annual-survey.

A total of 692 mathematical sciences departments participated in this Recruitment, Hiring, and Attrition survey.

This report is based on the completed questionnaires received from the 403 departments that reported recruiting to fill doctoral tenure-track and non-tenure-track positions during the academic year 2017–18 for employment beginning in the fall of 2018.

Overview of Recruitment

During the 2017–18 academic year, the estimated number of full-time positions under recruitment in mathematical sciences departments was 2,126 (SE = 58). This figure breaks down as follows: 849 tenure-track mathematics positions, 1,035 non-tenure-track mathematics positions, 136 tenure-track Stats positions, and 106 non-tenure-track Stats positions. See Figure R.1 for comparisons with earlier years. In the period from 2013 to 2018, the overall percentage of positions under recruitment that were tenure-track ranged from 46% to 52%, with the highest percentages in 2013–14 and 2016–17 of this range of time.

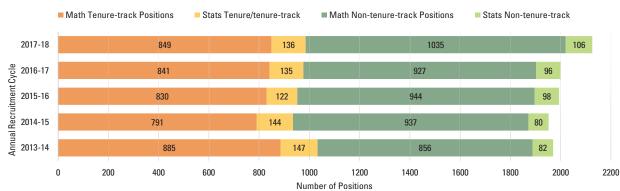


Figure R.1. Positions Under Recruitment in Mathematical Sciences

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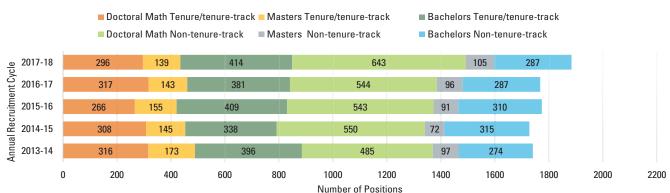


Figure R.2. Positions Under Recruitment in Mathematics Departments by Highest Mathematical Sciences Degree Offered

- Overall features in the 2017–18 cycle:
 - The estimated number of positions under recruitment was 2,126; this figure represents a slight increase from the 2016–17 estimate of 1,999 positions.
 - Women accounted for 31% of those hired, the same as in 2016–17.
 - Since 2010 recruitment has increased 75% in all Mathematical Sciences, 74% in Math, and 83% in Stats.
- Tenure-track positions under recruitment:
 - The number of open tenure-track positions was essentially the same as in 2016–17.
 - 46% (985) of all positions under recruitment were tenure-track. Of these 985 positions, 86% (851) were open to new PhDs, and 22% (214) were at the rank of associate/full professor.
- Non-tenure-track positions under recruitment:
 - Non-tenure-track positions increased 12% overall, to 1,141 from 1,023 in 2016–17.
 - 54% (1,141) of all positions under recruitment were non-tenure-track.

In Math the number of positions under recruitment (1,884) in 2017–18 was up 7% from the previous year (1,768). See Figure R.2 for a longer-term comparison. Over the period since 2007–08 recruitment has increased in Doctoral departments by 30% and decreased in both Masters departments and Bachelors departments by 27% and 25%, respectively. In the same ten-year period, the net number of mathematics positions under recruitment has decreased by 6%.

In Stats, the number of positions under recruitment in 2017–18 was 242, a 5% increase over 2016–17. Since 2013–14 the number of positions under recruitment has fluctuated between 220 and 242.

Positions Filled

A total of 1,866 full-time positions in Mathematical Sciences were filled during the 2017–18 academic cycle, 1,674 from Mathematics Departments and 192 from Statistics or Biostatistics. Figure F.1 gives a breakdown for the most recent five years. The total for Math is down 8% from the 2007–08 cycle. For Stats, the number of filled positions is up 56% from 2007–08. One interesting feature implicit in these data is that the success rate for filling mathematical sciences tenure-track positions over the period 2013–18 is about 80%, whereas the success rate for non-tenure-track is about 95%.

Figure F.2 gives a breakdown on hiring by gender and department grouping. Percentages generally are obtained by comparison with Figure R.1. Here are further highlights and comparisons:

- Overall features of hires in mathematical sciences:
 - Women hold 31% (585) of positions filled.
 - Of all hires, 42% (775) were tenure-track; women constitute 30% (232) of these.
 - Of all hires, 58% (1,091) were non-tenure-track;
 women constitute 32% (353) of these.
- Math and Stats breakdown:
 - o In Math overall, 1,674 of 1,884 positions (89%) were filled; 31% of Math positions filled were by women
 - In Stats, 192 of 242 positions (79%) were filled;
 33% of Stats positions filled were by women.
- Tenure-track hires in mathematical sciences:
 - Of the 985 tenure-track positions under recruitment, 79% (775) were filled.
 - Of tenure-track positions filled, 75% (583) were filled by doctoral faculty who are not new PhDs.
 Of these positions filled by doctoral faculty, 29% went to women. In comparison with 2016–17, all groups reported increases in tenure-track hires of doctoral faculty except Math Public Medium

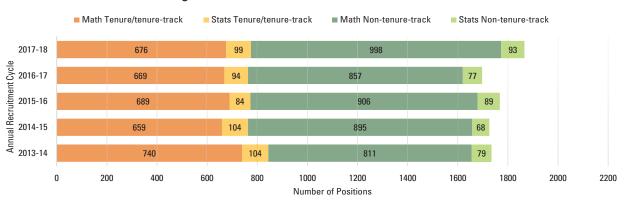


Figure F.1. Positions Filled in Mathematical Sciences

(\downarrow 39%), Math Public Small (\downarrow 5%), Math Private Small (\downarrow 4%), and Biostatistics (\downarrow 19%).

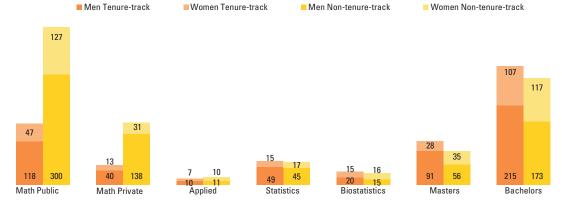
- Of the 192 (25%) of tenure-track hires who were new PhDs, 34% were women.
- Of tenure-track hires, 18% (141) had a non-tenure-track position in 2016–17; of these individuals, 30% were women.
- o Of tenure-track hires, 34% (261) held a postdoc in 2016–17, and 25% of these postdocs were women.

• Non-tenure-track hires

- Of the 1,141 non-tenure-track positions under recruitment, 96% were filled. In comparison to 2016–17, all groups reported increased hiring of non-tenure-track faculty except Applied Math (↓30%) and Biostatistics (↓24%).
- Of non-tenure-track hires, 36% (389) were filled by PhD faculty who were not new PhDs; 31% of these doctoral faculty hires were women.
- Of non-tenure-track hires, 87% (954) were PhDs;
 59% of these PhDs were new PhDs and 28% of these were women.

- Non-tenure-track hires (continued)
 - Of non-tenure-track hires, 13% (137) were filled by non-doctoral faculty; 55% of these non-doctoral hires were women. Fifty-three percent of these non-doctoral, non-tenure-track hires were in Bachelors departments.
 - Of non-tenure-track hires, 22% (237) were temporary (one-year); 38% of these temporary hires were women. Forty percent of all temporary hires were in Bachelors departments.
 - Of non-tenure-track hires, 41% (445) were in postdoctoral positions; 27% of these postdocs were women.
- Women hires (see Figure F.2):
 - Of all hires, 31% (585) were women; of these women, Bachelors departments hired 38%, and Doctoral Math departments hired 40%.
 - In the Doctoral Math Group, women hires increased by 18% to 235.
 - All groups reported increases in the number of women hires over last year except Math Private Small (↓47%), Biostatistics (↓16%), and Masters (↓11%).
 - The number of women hired into tenure-track positions decreased slightly to 232 from 241; the

Figure F.2. Gender of Tenure-track and Non-tenure-track Hires by Department Grouping, Fall 2018 Employment



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- number hired into non-tenure-track positions increased by 22% to 353.
- Women accounted for 30% of all tenure-track and 32% of all non-tenure track hires; in 2016–17 these percentages were, respectively, 32% and 31%.

Faculty Attrition

Figure A.1 shows the variation in attrition from deaths and retirements among full-time faculty for the academic years 2013–14 through 2017–18. On average over the period shown, the percentage of faculty in doctoral departments retiring or dying each year is about 1.9%, and in Masters and Bachelors departments that percentage is about 2.7%.

During the same period, in the respective groups, the percentages of tenured faculty who retired averaged 3.4% for Doctoral Math departments, 4.6% for Bachelors and Masters, and 3.6% for Stats. As reported in previous years, departments continue to report the majority of those retiring as members of the tenured faculty. For instance, for 2015–17 approximately 83%, 82%, and 92% of retirees have been tenured.

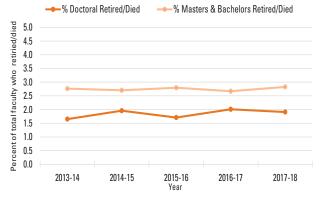
Here are a few other highlights from the attrition data from the 2017–18 cycle:

- Overall retirements by tenured faculty decreased by 9% to 531.
- Deaths and retirements increased by 3% to 614.
- Overall deaths and retirements break down by departmental grouping as follows:
 - o 43% (261) were from Bachelors
 - o 31% (189) were from Doctoral Math
 - o 20% (123) were from Masters
 - o 7% (41) were from Stat

Department Groupings

In this report, *Mathematical and Statistical Sciences* departments are those in four-year institutions in the US that refer to themselves with a name that incorporates (with a

Figure A.1. Percentage Full-time Faculty Died/Retired*



^{*} The percentage of full-time faculty who died or retired is the number of faculty who died or retired at some point during the academic year (September 1 through August 31) divided by the number of full-time faculty at the start of the academic year.

few exceptions) "Mathematics" or "Statistics" in some form. For instance, the term includes, but is not limited to, departments of "Mathematics," "Mathematical Sciences," "Mathematics and Statistics," "Mathematics and Computer Science," "Applied Mathematics," "Statistics," and "Biostatistics." Also, Mathematics (Math) refers to departments that (with exceptions) have "mathematics" in the name; Stat/Biostat refers to departments that incorporate (again, with exceptions) "statistics" or "biostatistics" in the name but do not use "mathematics."

Listings of the actual departments that comprise these groups are available on the AMS website at www.ams.org/annual-survey/groupings.

A department is in Group	when its subject area, highest degree offered, and PhD production rate* <i>p</i>
Math Public Large	Math PhD, 7.0 ≤ <i>p</i>
Math Public Medium	Math PhD, $3.9 \le p < 7.0$
Math Public Small	Math PhD, <i>p</i> < 3.9
Math Private Large	Math PhD, 3.9 ≤ <i>p</i>
Math Private Small	Math PhD, <i>p</i> < 3.9
Applied Math	Applied mathematics, PhD
Statistics	Statistics, PhD
Biostatistics	Biostatistics, PhD
Masters	Math, master's
Bachelors	Math, bachelor's
Doctoral Math	Math Public, Math Private, & Applied Math
Stat/Biostat or Stats	Statistics & Biostatistics
Math	All groups except Statistics & Biostatistics

^{*}The doctorate-granting departments of mathematics PhD production rates are based on the size of the PhD program as reflected in the number of PhDs awarded (as reported by departments to the Annual Survey) during the ten years from July 1, 2000, through June 30, 2010. Since there are some departments that have not reported their PhDs for every Annual Survey during this time, the average annual number of PhDs awarded was used to compare the departments.

Survey Response Rates by Grouping

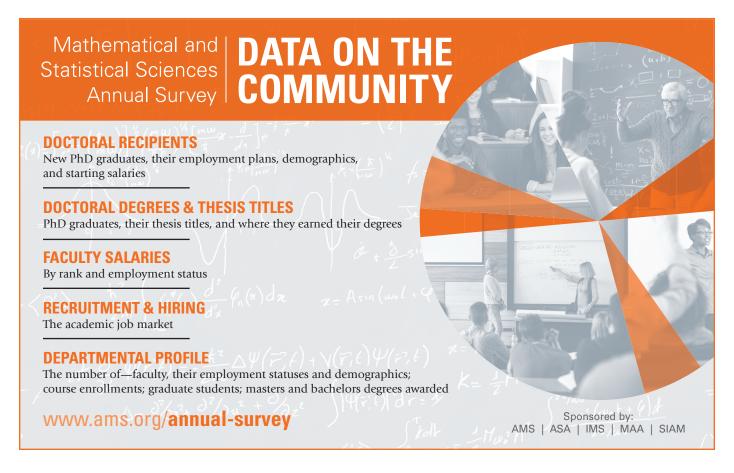
Recruitment, Hiring, and Attrition Response Rates

Group	Number	Percent
Math Public Large	23 of 26	88%
Math Public Medium	35 of 40	88%
Math Public Small	52 of 73	71%
Math Private Large	19 of 24	79%
Math Private Small	18 of 28	64%
Applied Math	16 of 23*	70%
Statistics	39 of 60	65%
Biostatistics	30 of 45*	67%
Masters	80 of 169	47%
Bachelors	380 of 1,014	37%
Total	692 of 1,502	46%

^{*}The populations for Applied Math and Biostatistics are slightly less than for the Doctorates Granted Survey because some programs do not formally "house" faculty, teach undergraduate courses, or award undergraduate degrees.

Acknowledgments

The Annual Survey attempts to provide an accurate appraisal and analysis of various aspects of the academic mathematical sciences scene for the use and benefit of the community and for filling the information needs of the professional organizations. Every year, college and university departments in the United States are invited to respond. The Annual Survey relies heavily on the conscientious efforts of the dedicated staff members of these departments for the quality of its information. On behalf of the Data Committee and the Annual Survey Staff, we thank the many secretarial and administrative staff members in the mathematical sciences departments for their cooperation and assistance in responding to the survey questionnaires.



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Table A.1Faculty Deaths & Retirements, Fall 2018

	Math Public	Math Public	Math Public	Math Private	Math Private	Applied			Total						
	Large	Medium	Small	Large	Small	Math	Statistics	Biostatistics	Doctoral	Total	Total			Total	Grand
	Group	Group	Group	Group	Group	Group	Group	Group	Math	Stats	Doctoral	Masters	Bachelors	Math	Total
Full-time faculty who retired or died	36	59	60	15	12	7	26	15	189	41	230	123	261	573	614
Standard Error	2	4	5	2	3	2	7	12	21	25	4	3	5	26	26
% of Full-time faculty	2%	3%	2%	1%	1%	1%	2%	2%	2%	2%	2%	3%	3%	2%	2%
Died	7	2	4	1	-	1	-	-	15	-	15	13	7	35	35
Retired	29	57	56	14	12	6	26	15	174	41	215	110	254	538	712
Tenured Faculty	28	44	53	14	14	6	25	14	159	39	198	94	239	492	651

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Table A.2
Tenured Faculty Retirements, Fall 2018

	Math		Math	Math											
	Public	Math	Public	Private	Math Private										
	Large	Public	Small	Large	Small	Applied Math	Statistics	Biostatistics	Total Doctoral	Total	Total			Total	Grand
	Group	Medium Group	Group	Group	Group	Group	Group	Group	Math	Stats	Doctoral	Masters	Bachelors	Math	Total
Full-time Tenured faculty who retired	28	44	53	14	14	6	25	14	159	39	198	94	239	492	531
Standard Error	2	3	5	2	3	1	4	3	7	5		11	19	23	
% of Full-time tenured faculty	2.3%	4.1%	4.1%	2.5%	2.9%	2.1%	3.4%	3.9%	3.2%	3.5%	14.2%	4.2%	4.9%	4.1%	2.1%

 Table R.1: Recruitment and Hiring of Faculty in the Mathematical Sciences, Fall 2018 by Department Grouping

	Math	Math	Math	Math	Math										
	Public	Public	Public	Private	Private	Applied			Total						
	Large	Medium	Small	Large	Small	Math	Statistics	Biostatistics	Doctoral	Total	Total			Total	Grand
Recruited Doctoral Positions	Group	Group	Group	Group	Group	Group	Group	Group	Math	Stats	Doctoral	Masters	Bachelors	Math	Total
Total Number (% of Total)	255	189	196	171	74	54	155	87	939	242	1181	244	701	1884	2126
Standard Error	11	11	15	11	11	6	15	8	26	23		26		56	58
Tenured or tenure-track	61	52	77	42	34	30	86	50	296	136	432	139	414	849	985
Open to new doctoral recipients	35	41	62	24	31	27	80	30	220	110	330	129	392	741	851
Open to assoc/full level	23	9	7	18	9	10	34	21	76	55	131	26	57	159	214
Non-tenure-track	194	137	119	129	40	24	69	37	643	106	749	105	287	1035	1141
Open to new doctoral recipients	190	136	108	124	40	23	66	37	621	103	724	100	276	997	1100
Temporary 1-year appointments	25	28	53	14	2	7	19	6	129	25	154	60	183	372	397
Reported Hires for Above Total number	228 (89%)	179 (95%)	185 (94%)	161 (94%)	61 (82%)	38 (70%)	126 (81%)	66 (76%)	852 (91%)	192 (79%)	1044 (88%)	210 (86%)	612	1674	1866
(% of Total Recruited in Group)			, ,	, ,		* *		, ,	, ,				(87%)	(89%)	(88%)
Tenured or tenure-track Hires	51	44	70	31	22	17	64	35	235	99	334	119	322	676	775
Doctoral hires															
Men	36	30	52	21	19	10	49	20	168	69	237	91	215	474	543
New doctoral hires	1	4	7	-	2	3	26	10	17	36	53	12	62	91	127
Not new doctoral hires	35	26	45	21	17	7	23	10	151	33	184	79	153	383	416
Previously in non-tenure-track	8	2	9	1	-	1	3	3	21	6	27	14	58	93	99
Previously in postdoc	19	16	31	14	12	1	20	1	93	21	114	46	36	175	196
Women	15	14	18	10	3	7	15	15	67	30	97	28	107	202	232
New doctoral hires	-	2	4	1	-	-	6	3	7	9	16	13	36	56	65
Not new doctoral hires	15	12	14	9	3	7	9	12	60	21	81	15	71	146	167
Previously in non-tenure-track	3	1	1	-	-	1	-	5	6	5	11	3	28	37	42
Previously in postdoc	10	9	6	5	2	1	6	3	33	9	42	7	16	56	65
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New doctoral hires	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Not new doctoral hires	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Previously in non-tenure-track	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Previously in postdoc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-tenure-track Hires	177	135	115	130	39	21	62	31	617	93	710	91	290	998	1091
Doctoral hires	174	130	98	130	39	17	58	31	588	89	677	59	218	865	954
Men	131	86	73	104	34	10	43	15	438	58	496	39	141	618	676
New doctoral hires	101	52	38	80	23	9	17	9	303	26		9	71	383	409
Not new doctoral hires	30	34	35	24	11	1	26		135	32		30	70	235	267
Postdoc appointments	88	55	24	95	20	7	13	8	289	21	310	6	8	303	324
1-year appointments	11	7	24	9	-	1	6	-	52	6	58	28	60	140	146
Women	43	44	25	26	5	7	15	16	150	31	181	20	77	247	278
New doctoral hires	37	20	7	23	5	6	9	10	98	19	117	14	25	137	156
Not new doctoral hires	6	24	18	3	-	1	6	6	52	12		6	52	110	122
Postdoc appointments	35	30	6	19	3	4	3	8	97	11	108	6	7	110	121
1-year appointments	6	4	17	1	2	1	5	-	31	5	36	21	34	86	91
Other	-	-	-	-		-	-		-	-	-	-	-	-	-
New doctoral hires	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Not new doctoral hires	-	-	-	-	-	-	-	-	-	-		-	-	-	
Postdoc appointments	-	-	-	-	-	-	-	-	-	-		-	-	-	-
1-year appointments	-	-	-	-	-	-	-	-	20	4	-	-	- 70	-	-
Nondoctoral hires	3	5	17	-	-	4	4	-	29	4	33	32	72	133	137
Men	3	4	3	-	-	1	2	-	11	2	13	1/	32	60	62
Women	-	1	14	-	-	3	2	-	18	2	20	15	40	73	75
Other										-	-			-	
Unfilled positions	27	10	11	11	13	16	29	21	88	50	138	23	13	124	174

 Table R.2

 Summary of Recruitment & Hiring of Doctoral Faculty by Position, and Gender, Fall 2018

		Masters		
		and	Statistics &	
	Doctoral Math	Bachelors	Biostatistics	Total
Doctoral Positions under recruitment				
Total Number	939	945	242	2126
Tenure or tenure-track	296	553	136	985
Open to new doctoral recipients	220	521	110	851
Open to assoc/full level	76	83	55	214
Non-tenure-track	643	392	106	1141
Open to new doctoral recipients	621	376	103	1100
1-year appointments	129	243	25	397
Reported Hires for Above, excluding temporary	/ hires			
Total hires	852	822	192	1866
Tenure or tenure-track	235	441	99	775
Previously in non-tenure-track	27	103	11	141
Previously in postdoc	126	105	30	261
Non-tenure-track	617	381	93	1091
1-year appointments	83		11	237
Postdoc appointments	386	27	32	445
Total doctoral hires	422	599	143	1729
New doctoral hires	425	242	90	757
Tenured or tenure-track	24	123	45	192
Men	320	154	62	536
Tenured or tenure-track	17	74	36	127
Women	-	88	28	116
Tenured or tenure-track	7	49	9	65
Other	-	-	-	-
Tenured or tenure-track		-	-	-
Not-new doctoral hires	398	476	98	972
Tenured or tenure-track	211		54	583
Men	286	332	65	683
Tenured or tenure-track	151		33	416
Women	112	144	33	289
Tenured or tenure-track	60		21	167
Other	-	-	-	-
Tenured or tenure-track	29	104	- A	137
Total Non-doctoral hires Men	29 11	104	4	
Women	18		2	62 75
Other	18	55	2	/5
Other		-	_	_

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Table R.3

Summary of Doctoral Faculty Positions under Recrutiment and Filled with the Percentage of Tenured or tenure-track, Fall 2018

		Masters and	Statistics &	
Positions	Doctoral Math	Bachelors	Biostatistics	Total
Recruited tenured or tenure-track				
positions open to new doctoral recipients	220	521	110	851
% Tenured or tenure-track	74%	94%	81%	86%
Recruited positions filled by				
new doctoral recipients	425	242	90	757
% Tenured or tenure-track	6%	51%	50%	25%
Recruited positions filled by				
not-new doctoral recipients	398	476	98	972
% Tenured or tenure-track	53%	67%	55%	60%

Table R.4
Summary of Total Recruitment & Hiring of Faculty in the Mathematical Sciences by Department Grouping for Fall 2018

	Math		Math	Math											
	Public	Math	Public	Private	Math										
	Large	Public	Small	Large	Private Small	Applied Math	Statistics	Biostatistics	Total Doctoral	Total	Total			Total	Grand
	Group	Medium Group	Group	Group	Group	Group	Group	Group	Math	Stats	Doctoral	Masters	Bachelors	Math	Total
Total Doctoral Positions Under Recruitment	255	189	196	171	74	54	155	87	939	242	1181	244	701	1884	2126
Standard Error	11	11	15	11	11	6	15	8	26	23	31	26	42	56	58
Tenured or tenure-track Hires	61	52	77	42	34	30	86	50	296	136	432	139	414	849	985
Non-tenure-track Hires	194	137	119	129	40	24	69	37	643	106	749	105	287	1035	1141
Total Hires	228	179	185	161	61	38	126	66	852	192	1044	210	612	1674	1866
Tenured or tenure-track Hires	51	44	70	31	22	17	64	35	235	99	334	119	322	676	775
Non-tenure-track Hires	177	135	115	130	39	21	62	31	617	93	710	91	290	998	1091
Total Hires by Gender	228	179	185	161	61	38	126	66	852	192	1044	210	612	1674	1866
Men hires	170	120	128	125	53	21	94	35	617	129	746	147	388	1152	1281
Women hires	58	59	57	36	8	17	32	31	235	63	298	63	224	522	585
Other hires	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unfilled positions	27	10	11	11	13	16	29	21	88	50	138	23	13	124	174

 Table R.5

 Percentage of Women Hired into Positions Requiring a Doctorate for Fall 2018 in the Mathematical Sciences

	Math Public Large	Math Public Medium	Math Public Small	Math Private Large	Math Private Small	Applied Math	Statistics	Biostatistics	Total Doctoral	Total	Total			Total	Grand
=	Group	Group	Group	Group	Group	Group	Group	Group	Math	Stats	Doctoral	Masters	Bachelors	Math	Total
Total Hires	228	179	185	161	61	38	126	66	852	192	1044	210	612	1674	1866
% Women	25%	33%	31%	22%	13%	45%	25%	47%	28%	33%	29%	30%	37%	31%	31%
Women as a percentage of hires															
Tenured or tenure-track	29%	32%	26%	32%	14%	41%	23%	43%	29%	30%	30%	24%	33%	30%	30%
New doctoral	-	33%	36%	100%	-	-	19%	23%	29%	20%	34%	52%	37%	38%	34%
Not new doctoral	30%	32%	24%	30%	15%	50%	28%	55%	28%	39%	29%	16%	32%	28%	29%
Previously in non-tenure-track	27%	33%	10%	-	-	50%	-	63%	22%	45%	30%	18%	33%	28%	30%
Previously in postdoc	34%	36%	16%	26%	14%	50%	23%	75%	26%	30%	25%	13%	31%	24%	25%
Non-tenured-track	24%	33%	34%	20%	13%	48%	27%	52%	27%	35%	32%	38%	40%	32%	32%
New doctoral hires	27%	28%	16%	22%	18%	40%	35%	53%	24%	42%	28%	61%	26%	26%	28%
Not new doctoral hires	17%	41%	34%	11%	-	50%	19%	50%	28%	27%	31%	17%	43%	32%	31%
Nondoctoral hires	-	20%	82%	-	-	75%	50%	-	62%	50%	55%	47%	56%	55%	55%
Postdoc appointments	28%	35%	20%	17%	13%	36%	19%	50%	25%	34%	27%	50%	47%	27%	27%
1-year appointments	35%	36%	41%	10%	100%	50%	45%	-	37%	45%	38%	43%	36%	38%	38%

Table R.6
Recruitment & Hiring of Doctoral Faculty, Fall 2018

	Math Public Large Group	Math Public Medium Group	Math Public Small Group	Math Private Large Group	Math Private Small Group	Applied Math Group	Statistics Group	Biostatistics Group	Total Doctoral Math	Total Stats	Total Doctoral	Masters	Bachelors	Total Math	Grand Total
Posted Doctoral Positions															
Total Number	255	189	196	171	74	54	155	87	939	242	1181	244	701	1884	2126
Standard Error	11	11	15	11	11	6	15	8	26	23	31	26	42	56	58
Tenured or tenure-track	61	52	77	42	34	30	86	50	296	136	432	139	414	849	985
Open to new doctoral recipients	35	41	62	24	31	27	80	30	220		330	129	392	741	851
Open to assoc/full level	23	9	7	18	9	10	34	21	76	55	131	26	57	159	214
Non-tenure-track	194	137	119	129	40	24	69	37	643	106	749	105	287	1035	1141
Open to new doctoral recipients	190	136	108	124	40	23	66	37	621	103	724	100	276	997	1100
Temporary 1-year appointments	25	28	53	14	2	7	19	6	129	25	154	60	183	372	397
Reported Hires for Above by Gender	20	20	33		_	,			127	20	101		100	0,2	377
Total number	228	179	185	161	61	38	126	66	852	192	1044	210	612	1674	1866
Men doctoral hires	167	116	105	125	F 2	20	0.0	2.5	606	127	700	120	356	1092	1219
Tenured or tenure-track	36	30	1 25 52	21	53 19	20 10	92 49	35 20	168	69	733 237	130 91	215	10 92 474	543
Non-tenure-track	131	86	73	104	34	10	43	15	438	58	496	39	141	618	676
Postdoc appointments	88	55	24	95	20	7	13	13	289	21	310	6	8	303	324
1-year appointments	11	7	24	9	-	1	6	-	52	6	58	28	60	140	146
Women doctoral hires	58	58	43	36	8	14	30	31	217	61	278	48	184	449	510
Tenured or tenure-track	15	14	18	10	3	7	15	15	67	30	97	28	107	202	232
Non-tenure-track	43	44	25	26	5	7	15	16	150	31	181	20	77	247	278
Postdoc appointments	35	30	6	19	3	4	3	8	97	11	108	6	7	110	121
1-year appointments	6	4	17	1	2	. 1	5	-	31	5	36	21	34	86	91
Other doctoral hires	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nondoctoral hires	3	5	17	-	-	4	4	-	29	4	33	32	72	133	133
Men	3	4	3	-	-	1	2	-	11	2	13	17	32	60	60
Women	-	1	14	-	-	3	2	-	-	-	-	15	40	55	-
Other	-	-	-	-	-	-	-	-	-	-		-	-	-	_
Total new doctoral hires	139	78	56	104	30	18	58	32	425	90	515	48	194	667	757
Men new doctoral hires	102	56	45	80	25	12	43	19	320	62	382	21	133	474	536
Tenured or tenure-track	1	4	7	-	2	3	26	10	17	36	53		62	91	127
Women new doctoral hires	37	22	11	24	5	6	15	13	105	28	133	27	61	193	221
Tenurd or tenure-track	-	2	4	1	-	-	6	3	7	9	16	13	36	56	65
Other new doctoral hires	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tenurd or tenure-track	-	-	-	- 11	- 10	-	-	-	-	-	-	-	-	-	-
Unfilled positions	27	10	11	11	13	16	29	21	88	50	138	23	13	124	174

Table R.7
Summary of Recruitment & Hiring of Faculty, Fall 2018

		Masters		
		and	Statistics &	
	Doctoral Math	Bachelors	Biostatistics	Total
Doctoral Positions under recruitment	Bootoral matri	Badrididid	Biodiationico	
Total Number	939	945	242	2126
Tenure or tenure-track	296	553	136	985
Non-tenure-track	643	392	106	1141
Reported Hires for Above, excluding temporary hires	•			
Hires by type of position	852	822	192	1866
Tenure or tenure-track	235	441	99	775
Previously in non-tenure-track	27	103	11	141
Previously in postdoc	126	105	30	261
Non-tenure-track	617	381	93	1091
1-year appointments	83	143	11	237
Previously in postdoc	386	27	32	445
Gender of hires	852	822	192	1866
Men	617	535	129	1281
Women	235	287	63	585
Other	-	-	-	-
Hires by type of position & gender	852	822	192	1866
Tenure or tenure-track	235	441	99	775
Men	168	306	69	543
Women	67	135	30	232
Other	-	-	-	-
Non-tenure-track	617	381	93	1091
Men	449	229	60	738
Women	168	152	33	353
Other	-	-	-	-
Total hires by doctoral degree	852	822	192	1866
Doctoral hires	823	718	188	1729
Men	606	486		1219
Women	217	232	61	510
Other Non-doctoral hires	29	104	4	- 137
Men Non-doctoral nires	29			
Women	18	49 55	2	62 75
Other	18	55	2	/5
Ottlel	-	-	-	-