

Table 8-9

Mathematics and statistics research doctorate recipients, statistical profiles by sex and major field of doctorate: 2021

(Number, percent, and median years)

Characteristic	All mathematics and statistics fields	Applied mathematics	Mathematics	Statistics
All doctorate recipients (number) ^a	1,915	475	827	613
Sex (%)				
Male	72.1	69.9	77.5	66.6
Female	27.9	30.1	22.5	33.4
Unknown	0.0	0.0	0.0	0.0
Citizenship status (%)				
U.S. citizen or permanent resident	44.2	48.0	51.8	31.2
Temporary visa holder	51.5	49.5	43.0	64.6
Unknown	4.2	2.5	5.2	4.2
Marital status (%)				
Never married	49.4	48.0	49.2	50.7
Married	29.8	33.7	26.8	30.8
Marriage-like relationship	9.3	D	9.9	D
Separated, divorced, widowed	1.1	D	1.3	D
Unknown	10.3	7.6	12.7	9.3
Has dependent age 18 or younger (%)	11.5	15.2	8.2	12.9
Has one or more functional limitations (%)	10.1	12.1	9.9	8.6
Age at doctorate (median years)	29.4	29.7	29.1	29.7
Bachelor's in same field as doctorate (%) ^b	80.1	73.0	88.6	74.5
Master's earned (%)	72.4	78.3	66.0	76.2
Master's earned at same doctorate institution (%)	56.5	60.2	55.1	55.1
Time to doctorate (median years)				
Years since earning bachelor's degree	7.0	7.3	6.8	7.3
From graduate school start	6.1	6.3	6.0	6.3
From doctoral program start ^c	5.3	5.0	5.8	5.0
Received tuition remission (%)	93.5	92.3	95.2	92.3
Male doctorate recipients (number)	1,381	332	641	408
Citizenship status (%)				
U.S. citizen or permanent resident	44.0	43.4	51.6	32.4
Temporary visa holder	52.1	53.3	44.1	63.7
Unknown	3.9	3.3	4.2	3.9
Marital status (%)				
Never married	51.4	48.8	52.4	52.0
Married	28.4	32.5	25.4	29.7
Marriage-like relationship	8.5	D	D	7.8
Separated, divorced, widowed	1.2	D	D	1.2
Unknown	10.5	8.4	12.3	9.3
Has dependent age 18 or younger (%)	11.5	16.0	7.6	13.5
Has one or more functional limitations (%)	10.6	12.6	10.0	9.8
Age at doctorate (median years)	29.5	29.9	29.1	29.8
Bachelor's in same field as doctorate (%) ^b	79.7	70.4	88.4	74.2
Master's earned (%)	70.6	76.7	63.5	76.4
Master's earned at same doctorate institution (%)	54.3	58.8	52.3	53.1
Time to doctorate (median years)				
Years since earning bachelor's degree	7.0	7.3	6.7	7.3
From graduate school start	6.1	6.3	6.0	6.6
From doctoral program start ^c	5.3	5.0	5.8	5.1
Received tuition remission (%)	94.0	93.5	95.5	92.3
Female doctorate recipients (number)	534	143	186	205

Table 8-9**Mathematics and statistics research doctorate recipients, statistical profiles by sex and major field of doctorate: 2021**

(Number, percent, and median years)

Characteristic	All mathematics and statistics fields	Applied mathematics	Mathematics	Statistics
Citizenship status (%)				
U.S. citizen or permanent resident	44.9	58.7	52.2	28.8
Temporary visa holder	50.0	40.6	39.2	66.3
Unknown	5.1	0.7	8.6	4.9
Marital status (%)				
Never married	44.2	46.2	38.2	48.3
Married	33.5	36.4	31.7	33.2
Marriage-like relationship	11.2	11.9	D	D
Separated, divorced, widowed	1.1	0.0	D	D
Unknown	9.9	5.6	14.0	9.3
Has dependent age 18 or younger (%)	11.6	13.2	10.1	11.8
Has one or more functional limitations (%)	8.6	11.0	9.5	6.1
Age at doctorate (median years)	29.3	29.5	29.0	29.4
Bachelor's in same field as doctorate (%) ^b	80.9	79.0	89.2	75.3
Master's earned (%)	77.1	81.9	74.7	75.8
Master's earned at same doctorate institution (%)	61.8	63.4	63.4	59.2
Time to doctorate (median years)				
Years since earning bachelor's degree	7.0	7.0	7.0	7.1
From graduate school start	6.2	6.3	6.2	6.1
From doctoral program start ^c	5.3	5.2	5.8	5.0
Received tuition remission (%)	92.2	89.7	94.4	92.2

D = suppressed to avoid disclosure of confidential information.

^a Includes respondents who did not report sex.^b A bachelor's degree is counted as in same field as doctorate if the fields of study of the doctorate recipient's first or most recent bachelor's degree and doctoral degree are both in the same broad field category.^c Time to doctorate from doctoral program start is based on master's degree entry if the master's degree was at the doctoral institution in the same field of study or was a prerequisite to the doctorate; otherwise, it is based on doctoral program entry.**Note(s):**

Due to rounding, percentages may not sum to 100. Beginning in 2021, a modified version of the 2020 Classification of Instructional Programs (CIP) codes was used in the survey data collection, and the new broad, major, and detailed fields were used in tables reporting only the most recent data year. Therefore, the field of doctorate data in 2021 may not be comparable to prior years; see the "Technical Notes" for more information, table A-4 for a summary of SED-CIP codes in the new SED field taxonomy, table A-5 for a full list of SED-CIP codes in the new field taxonomy, and table A-6 for the SED-CIP code crosswalk to the historical field taxonomy.

Source(s):

National Center for Science and Engineering Statistics, Survey of Earned Doctorates.