

TABLE 8-9

Mathematics and statistics research doctorate recipients, statistical profiles by sex and major field of doctorate: 2023

(Number, percent, and median years)

Characteristic	All mathematics and statistics fields	Applied mathematics	Mathematics	Statistics
All doctorate recipients (number) ^a	2,056	490	890	676
Sex (%)				
Male	72.0	69.8	79.0	64.3
Female	28.0	30.2	20.9	35.7
Unknown	*	0.0	0.1	0.0
Citizenship status (%)				
U.S. citizen or permanent resident	45.2	49.0	55.6	28.7
Temporary visa holder	51.0	48.8	39.4	67.9
Unknown	3.8	2.2	4.9	3.4
Marital status (%)				
Never married	54.0	56.3	53.1	53.6
Married	24.9	26.1	21.3	28.7
Marriage-like relationship	9.0	8.8	9.7	8.3
Separated, divorced, widowed	1.5	1.6	1.5	1.3
Unknown	10.6	7.1	14.4	8.1
Has dependent age 18 or younger (%)	9.4	12.7	5.9	11.3
Has one or more functional limitations (%)	11.1	10.0	12.4	10.5
Age at doctorate (median years)	29.2	29.5	28.8	29.6
Bachelor's in same field as doctorate (%) ^b	80.6	78.9	87.0	73.7
Master's earned (%)	68.8	71.4	63.1	74.0
Master's earned at same doctorate institution (%)	53.2	56.5	54.1	49.8
Time to doctorate (median years)				
Years since earning bachelor's degree	7.0	7.0	6.3	7.3
From graduate school start	6.0	6.3	5.9	6.1
From doctoral program start ^c	5.3	5.3	5.8	5.0
Received tuition remission (%)	93.8	91.6	95.4	93.5
Male doctorate recipients (number)	1,480	342	703	435
Citizenship status (%)				
U.S. citizen or permanent resident	46.8	50.0	54.6	31.5
Temporary visa holder	48.9	47.1	39.8	64.8
Unknown	4.4	2.9	5.5	3.7
Marital status (%)				
Never married	56.6	60.5	56.0	54.5
Married	23.0	22.8	20.5	27.1
Marriage-like relationship	8.2	D	8.0	D
Separated, divorced, widowed	1.1	D	1.0	D
Unknown	11.1	7.9	14.5	8.0
Has dependent age 18 or younger (%)	7.9	9.8	4.8	11.1
Has one or more functional limitations (%)	10.0	9.6	10.9	9.0
Age at doctorate (median years)	29.2	29.4	28.7	29.6
Bachelor's in same field as doctorate (%) ^b	80.5	78.5	86.3	73.2
Master's earned (%)	67.4	69.2	62.5	73.4
Master's earned at same doctorate institution (%)	51.3	51.3	53.1	49.0
Time to doctorate (median years)				
Years since earning bachelor's degree	6.8	6.9	6.3	7.2
From graduate school start	6.0	6.3	5.9	6.1
From doctoral program start ^c	5.3	5.3	5.8	5.0
Received tuition remission (%)	93.9	91.7	94.8	94.4
Female doctorate recipients (number)	575	148	186	241
Citizenship status (%)				

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Mathematics and statistics research doctorate recipients, statistical profiles by sex and major field of doctorate: 2023

(Number, percent, and median years)

Characteristic	All mathematics and statistics fields	Applied mathematics	Mathematics	Statistics
U.S. citizen or permanent resident	41.2	46.6	59.7	23.7
Temporary visa holder	56.5	52.7	37.6	73.4
Unknown	2.3	0.7	2.7	2.9
Marital status (%)				
Never married	47.5	46.6	42.5	51.9
Married	29.7	33.8	24.2	31.5
Marriage-like relationship	11.1	D	16.1	D
Separated, divorced, widowed	2.3	D	3.2	D
Unknown	9.4	5.4	14.0	8.3
Has dependent age 18 or younger (%)	13.3	19.3	10.0	11.8
Has one or more functional limitations (%)	14.0	10.8	17.7	13.4
Age at doctorate (median years)	29.4	29.6	29.0	29.7
Bachelor's in same field as doctorate (%) ^b	80.7	79.9	89.8	74.7
Master's earned (%)	72.3	76.4	65.1	75.1
Master's earned at same doctorate institution (%)	57.8	67.3	58.3	51.2
Time to doctorate (median years)				
Years since earning bachelor's degree	7.2	7.3	7.0	7.4
From graduate school start	6.1	6.3	6.0	6.3
From doctoral program start ^c	5.3	5.3	5.8	5.0
Received tuition remission (%)	93.5	91.5	97.5	92.0

* = value between 0.00% and 0.05%; D = suppressed to avoid disclosure of confidential information.

^a All doctorate recipients includes doctorate recipients who did not report sex.^b A bachelor's and doctoral degree are considered to be in the same field if doctorate recipient's first or most recent bachelor's degree is in the same broad field as their doctoral degree.^c Time to doctorate from doctoral program start is based on master's degree entry if the master's degree was at the same 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 new broad, major, and detailed fields are used in tables reporting data from 2021 to the present; see the field list in table A-4. Therefore, the field of doctorate data prior to 2021 may not be comparable to subsequent years. For more information about the 2021 taxonomy change, see the "Technical Notes."

Source(s):

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