

Mathematical and Statistical Sciences Annual Survey

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Survey of Doctoral Recipients (SDR) July 1, 2018 – June 30, 2019

Conducted by American Mathematical Society

Contact Information:

First Name	Last Name	Today's Date
Doctoral Institution	Department/Program	City & State
Type of Research Doctoral Degree (e.g., PhD, Ed.D, etc.)		
Email (please use an email address that is most likely to be active after your graduation.)		

Dear PhD recipient,

Congratulations on receiving your doctorate!

On behalf of the sponsoring societies for the Mathematical and Statistical Sciences Survey (AMS, ASA, IMS, MAA, and SIAM), we are writing to ask that you complete a brief questionnaire regarding your PhD degree, your experience completing it, and your career direction. Your department chair or other representative has forwarded this request to you on our behalf and we ask that you return your completed questionnaire to him or her within the time frame mentioned below.

With the exception of your dissertation title, the data collected will be anonymized, and an aggregated analysis will be published in a report in *Notices of the American Mathematical Society*.

It is our hope that these reports will provide recognition of your achievements, valuable insights for other students in these programs, guidance for individuals contemplating careers based in mathematical and statistical training, and insight for those who guide and support graduate programs in the mathematical and statistical sciences.

Please complete the attached fillable pdf form and return it via email to your department contact no later than August 1, 2019. We are relying heavily on your initiative to help in making our report as comprehensive and authoritative as possible, so we hope you will respond in a timely fashion.

If you have questions or concerns about this survey, you may contact us by email at: ams-survey@ams.org or phone 1-800-321-4267, extension 4124.

Please accept our thanks in advance for your willingness to participate. To underscore those thanks, if you complete the form by this date, we will enter you into a drawing for one of ten US\$100 Amazon gift cards. The drawing will be held on December 4, 2019.

Again, congratulations on achieving the milestone of earning a PhD!

Best regards,

Amanda Golbeck, chair, AMS-ASA-IMS-MAA-SIAM Joint Data Committee
Tom Barr, AMS Special Projects Officer

SECTION A: DEGREE INFORMATION

A1. When did you start this doctoral degree and when was the degree granted?

Month/year degree started: Month Year

Month/year degree granted: Month Year

A2. What is the title of your dissertation?

A3. Please write the name of the primary field of your dissertation research (see the list on page 4).

A4. Using the list on page 4, enter the two digit MR code that best describes the primary field of your dissertation.

A5. Who was your dissertation advisor:

Advisor 1 name: _____

Department and Institution: _____

Advisor 2 name: _____

Department and Institution: _____

A6. During the completion of your degree, did you do any of the following (check all that apply):

1 Grading

2 Recitation sections

3 Full responsibility for teaching a section of a course

4 Research Assistant

5 Other _____

6 None

SECTION B: EMPLOYMENT INFORMATION

B1. Do you currently have a job either started or lined up to start by September 1, 2019?

1 Yes 2 No → **GO TO B2**



a. Please provide the following information (please use the full organization name and avoid acronyms):

Job title: _____

Name of the company/organization/institution: _____

Geographic location (state/country): _____

b. Employment status:

1 Full-time (35+ hrs/week or equivalent)

2 Part-time (Less than 35 hrs/week)

B2. If you do not currently either have a job or one lined up, are you (check all that apply):

1 Actively searching for a job

2 Primarily pursuing further education

3 Other _____

→ **On answer go to C1 on page 3**

B3. Is this primary employment in an academic institution?

1 Yes 2 No → **GO TO B4**



a. Is this institution a:

1 Four-year college or university

2 Two-year college or university

3 Elementary/secondary school or system

4 Other; please specify: _____

b. Is this employment time limited?

1 Yes → **GO TO B3.c**

2 No → **GO TO B3.f**

c. Which of the following ranges best describes the duration of this time-limited employment?

1 0–1 year 3 2–3 years

2 1–2 years 4 3 or more years

d. Is the time-limited employment a postdoctoral appointment?

A postdoctoral appointment is an academic position for a term of one to three years primarily intended to provide an opportunity to extend graduate training or to further research experience.

1 Yes

2 No

e. Are you working in a time-limited job because a suitable renewable or tenure-track one was not available?

1 Yes → **GO TO B4**

2 No → **GO TO B4**

f. Which of the following best describes your non-time-limited employment?

1 Tenured/tenure-track

2 Long-term renewable

B4. How many years of full-time employment in the mathematical sciences or related fields have you had prior to your current work?

(Do not count time as a graduate assistant or research assistant.)

Number of years (round to whole years; may be zero)

B5. Which of the following work activities constitute a significant portion of your primary employment?

(Please check all that apply)

- 1 Teaching
- 2 Management or administration
- 3 Research
- 4 Other; please specify: _____

IF ACADEMICALLY EMPLOYED → GO TO B7.

B6. Which of the following categories best describes your employer?

- 1 Government; please choose one:
 - 1.1 Federal
 - 1.2 State/Local
 - 1.3 Other; please specify: _____
- 2 Research institute or other not-for-profit;
- 3 Business/Industry; please choose one:
 - 3.1 Financial Services (including banking & insurance)
 - 3.2 Business Services (including engineering, technology, consulting services)
 - 3.3 Aerospace/Defense
 - 3.4 Energy
 - 3.5 Software
 - 3.6 Health care
 - 3.7 Pharmaceutical & Medical Devices
 - 3.8 Biotechnology
 - 3.9 Survey/Market Research
 - 3.10 Communications (TV, radio, telecom, internet-Google, Yahoo, Facebook)
 - 3.11 Consumer Merchandising (ebay, Amazon, Walmart, Target)
 - 3.12 Self-employed; please specify: _____
 - 3.13 Other; please specify: _____

B7. Is this this job a postdoctoral appointment?

A postdoctoral appointment is most often an academic position for a term of one to three years primarily intended to provide an opportunity to extend graduate training or to further research experience.

- 1 Yes 2 No

B8. What will your basic annual salary be for this job? (Used to calculate starting salaries. This data will be treated as strictly confidential; only statistical summaries of these will be published.)

US\$ _____ . 00 (preferred)

If you prefer not to report an exact amount, please indicate into which range your current or expected salary falls?

- | | |
|---|---|
| 1 <input type="checkbox"/> \$40,000 or less | 11 <input type="checkbox"/> \$130,001 - \$140,000 |
| 2 <input type="checkbox"/> \$40,001 - \$50,000 | 12 <input type="checkbox"/> \$140,001 - \$150,000 |
| 3 <input type="checkbox"/> \$50,001 - \$60,000 | 13 <input type="checkbox"/> \$150,001 - \$160,000 |
| 4 <input type="checkbox"/> \$60,001 - \$70,000 | 14 <input type="checkbox"/> \$160,001 - \$170,000 |
| 5 <input type="checkbox"/> \$70,001 - \$80,000 | 15 <input type="checkbox"/> \$170,001 - \$180,000 |
| 6 <input type="checkbox"/> \$80,001 - \$90,000 | 16 <input type="checkbox"/> \$180,001 - \$190,000 |
| 7 <input type="checkbox"/> \$90,001 - \$100,000 | 17 <input type="checkbox"/> \$190,001 - \$200,000 |
| 8 <input type="checkbox"/> \$100,001 - \$110,000 | 18 <input type="checkbox"/> \$200,001 - \$210,000 |
| 9 <input type="checkbox"/> \$110,001 - \$120,000 | 19 <input type="checkbox"/> \$210,001 or more |
| 10 <input type="checkbox"/> \$120,001 - \$130,000 | 20 <input type="checkbox"/> Don't know |

B9. If you are academically employed, is the salary for?

- 1 9 - 10 months of work (even if paid over 12 months)
- 2 11 - 12 months

B10. Are you currently actively looking for another job?

- 1 Yes 2 No

SECTION C: BACKGROUND INFORMATION

This data will be treated as strictly confidential; only statistical summaries of these will be published.

C1. What is your gender identity?

- 1 Woman 2 Man 3 Neither

C2. What is your citizenship status?

- 1 US Citizen
- 2 Non-US Citizen with permanent resident US Visa
- 3 Non-US Citizen with temporary US Visa

C3. If a non-US citizen, of which country are you a citizen?

C4. What is your Ethnicity?

- 1 Hispanic or Latino
- 2 Not Hispanic or Latino

C5. What is your racial background (check all that apply)?

- 1 American Indian or Alaskan Native
- 2 Asian
- 3 Black or African American
- 4 Native Hawaiian or other Pacific Islander
- 5 White
- 6 Other (specify) _____

C6. What was your age when you received this PhD? _____

Please enter any comments you wish to provide in the space below:

Thank you for completing this questionnaire.

Field of Thesis Groupings

[Return to Question A4.](#)

Dissertations are grouped by using the Mathematical Reviews (MR) 2010 Mathematics Subject Classifications. The fields of study below should be used in responding to item A3 on page 2. Please choose the MR code which best describes your field of thesis.

(1-ALG) ALGEBRA/NUMBER THEORY

06 Order, lattices, ordered algebraic structures	13 Commutative rings and algebras	17 Nonassociative rings and algebras
08 General algebraic systems	14 Algebraic geometry	18 Category theory, homological algebra
11 Number theory	15 Linear and multilinear algebra; matrix theory	19 K-theory
12 Field theory and polynomials	16 Associative rings and algebras	20 Group theory and generalizations

(2-ANAL) REAL, COMPLEX, FUNCTIONAL, HARMONIC ANALYSIS (AND TOPOLOGICAL GROUPS)

22 Topological groups, Lie groups	31 Potential theory	42 Fourier analysis
26 Real functions	32 Several complex variables and analytic spaces	43 Abstract harmonic analysis
28 Measure and integration	33 Special functions	44 Integral transforms, operational calculus
30 Functions of a complex variable	40 Sequences, series, summability	46 Functional analysis
		47 Operator theory

(3-GEOM) GEOMETRY/TOPOLOGY

51 Geometry	53 Differential geometry	55 Algebraic topology
52 Convex sets and discrete geometry	54 General topology	57 Manifolds and cell complexes
		58 Global analysis, analysis on manifolds

(4-DISC) DISCRETE MATH/COMBINATORICS/LOGIC/COMPUTER SCIENCE

03 Mathematical logic and foundations	05 Combinatorics	68 Computer science
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(5-PROB) PROBABILITY

60 Probability theory and stochastic processes
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(6-STAT) BIostatISTICS/STATISTICS

61 Biotistics (Annual Survey of new PhDs only)	62 Statistics
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(7-APPL) APPLIED MATHEMATICS

70 Mechanics of particles and systems	80 Classical thermodynamics, heat transfer	90 Operations research, mathematical programming
74 Mechanics of deformable solids	81 Quantum theory	91 Game theory, economics, social, and behavioral sciences
76 Fluid mechanics	82 Statistical mechanics, structure of matter	92 Biology and other natural sciences, behavioral sciences
78 Optics, electromagnetic theory	83 Relativity and gravitational theory	94 Information and communications, circuits
79 Mathematical Physics, physical applications	85 Astronomy and astrophysics	
	86 Geophysics	

(8-NUM) NUMERICAL ANALYSIS/APPROXIMATIONS

41 Approximations and expansions	65 Numerical analysis
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(9-OPT) LINEAR, NON-LINEAR OPTIMIZATION/CONTROL

49 Calculus of variations and optimal control; optimization	93 Systems theory; control
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(10-EQUA) DIFFERENTIAL, INTEGRAL, DIFFERENCE EQUATIONS

34 Ordinary differential equations	37 Dynamical systems and ergodic theory	45 Integral equations
35 Partial differential equations	39 Finite differences and functional equations	

(11-EDUC) MATHEMATICS EDUCATION

97 Mathematical Education

(12-OTH) OTHER/UNKNOWN

00 General	01 History and biography	99 Missing/unknown
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