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Mathematical and Statistical Sciences Annual Survey

Sponsored by AMS ASA IMS MAA SIAM

American Mathematical Society PO Box 6248 | Providence, RI 02940-6248 401.455.4124 (t) 401.331.6248 (f) Email: ams-survey@ams.org

Survey of Doctorate Recipients (SDR)

July 1, 2019 - June 30, 2020

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 Annual 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 30, 2020. 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.

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 in December 2020.

If you have questions or concerns about this survey, you many contact us by email at: ams-survey@ams.org.

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 Month/year degree granted: Month Month/year degree started: 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: Department and Institution*: Advisor 1 name: _ Department and Institution*: * If different from doctoral-granting institution. A6. During the completion of your degree, did you do any of the following (check all that apply): Recitation sections Other Full responsibility for teaching a section of a course None **SECTION B: EMPLOYMENT INFORMATION** B5. Is your job B1. Check the one that describes your employment status: I am currently employed or have a job lined up to start by An academic postdoc* September 1, 2020. A government or industry postdoc* Actively searching for a job Neither of the above Primarily pursuing further education * A postdoctoral appointment is an academic position for a term of one to three years primarily intended Other; please specify: _____ to provide an opportunity to extend graduate training or to further research experience If you answered 1 above, please provide the following information; B6. If you are employed in a post-secondary academic institution, otherwise go to Section C. indicate which of the following best describes the category of your B2. Please provide the following information (please use the full organization name and avoid acronyms): Tenured-track/tenured faculty Job title: _____ Renewable but not tenure eligible Academic staff Department: _____ Other (specify) Name of the company/organization/institution: Which of the following work activities constitute a significant Geographic location (City & state/country): ___ portion of your primary employment? (Please check all that apply) **B3.** Employment status: Teaching Full-time (35+ hrs/week or equivalent) Research Part-time (Less than 35 hrs/week) Customer/client services B4. Which of the following ranges best describes the maximum Individual-effort technical (e.g., programming) work duration of your current employment? Team-based technical work 0-1 year Management or administration 1-2 years 7 Other; please specify: 2-3 year more than three years, but time limited Continuing/renewable

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Field of Thesis Groupings

Dissertations are grouped by using the Mathematical Reviews (MR) 2020 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
- 08 General algebraic systems
- 11 Number theory
- 12 Field theory and polynomials

- 13 Commutative algebras
- 14 Algebraic geometry15 Linear and multilinear algebra; matrix theory
- 16 Associative rings and algebras

- 17 Nonassociative rings and algebras
- 18 Category theory, homological algebra
- 19 K-theory
- 20 Group theory and generalizations

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

- 22 Topological groups, Lie groups
- 26 Real functions
- 28 Measure and integration
- 30 Functions of a complex variable

- 31 Potential theory
- 32 Several complex variables and analytic spaces
- 33 Special functions
- 40 Sequences, series, summability

- 42 Harmonic analysis on Euclidean spaces
- 43 Abstract harmonic analysis
- 44 Integral transforms, operational calculus
- 46 Functional analysis
- 47 Operator theory

(3-GEOM) GEOMETRY/TOPOLOGY

- 51 Geometry
- 52 Convex sets and discrete geometry

- 53 Differential geometry
- 54 General topology

- 55 Algebraic 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

(5-PROB) PROBABILITY

60 Probability theory and stochastic processes

(6-STAT) BIOSTATISTICS/STATISTICS

61 Biostatistics (Annual Survey of new PhDs only)

62 Statistics

(7-APPL) APPLIED MATHEMATICS

- 70 Mechanics of particles and systems
- 74 Mechanics of deformable solids
- 76 Fluid mechanics
- 78 Optics, electromagnetic theory
- 79 Mathematical Physics, physical applications
- 80 Classical thermodynamics, heat transfer
- 81 Quantum theory
- 82 Statistical mechanics, structure of matter
- 83 Relativity and gravitational theory
- 85 Astronomy and astrophysics
- 86 Geophysics

- 90 Operations research, mathematical programming
- 91 Game theory, economics, social, and behavioral sciences
- 92 Biology and other natural sciences, behavioral sciences
- 94 Information and communications, circuits

(8-NUM) NUMERICAL ANALYSIS/APPROXIMATIONS

41 Approximations and expansions

65 Numerical analysis

(9-OPT) LINEAR, NON-LINEAR OPTIMIZATION/CONTROL

49 Calculus of variations and optimal control; optimization

93 Systems theory; control

(10-EQUA) DIFFERENTIAL, INTEGRAL, DIFFERENCE EQUATIONS

34 Ordinary differential equations35 Partial differential equations

- 37 Dynamical systems and ergodic theory39 Differences and functional equations
- 45 Integral equations

(11-EDUC) MATHEMATICS EDUCATION

97 Mathematics Education

(12-OTH) OTHER/UNKNOWN

00 General and overarching topics, collections

01 History and biography