MATHEMATICAL STATISTICS (STAT)

Graduate Degree Program
College: Computer, Mathematical, and Natural Sciences

Abstract
The Statistics Program offers the Master of Arts and Doctor of Philosophy degrees for graduate study and research in statistics and probability. Areas of faculty research activity include high dimensional data, statistical decision and estimation theory, biostatistics, stochastic modeling, robust and nonparametric inference, semiparametric inference, categorical data analysis, theory and inference for stochastic processes, stochastic analysis, time series and spatial statistics. Students may concentrate in applied or theoretical statistics by selecting an appropriate sequence of courses and a research area to form an individual plan of study. The Program has been designed with sufficient flexibility to accommodate the student’s background and interests. The Program also offers students from other disciplines an opportunity to select a variety of statistics courses to supplement their own study.

The Program is administratively affiliated with the Department of Mathematics, which maintains the records of all students in the Mathematical Statistics Program and handles correspondence with those applying for admission. However, any application for admission must indicate clearly that the student wishes to enter the Statistics (STAT) Program.

Employment prospects for statisticians are very good. All recent M.A. and Ph.D. graduates of Maryland’s Statistics Program have found jobs in academia, industry and government agencies.

Financial Assistance
Graduate assistantships are awarded to Ph. D. students in the Statistics Program through the Mathematics Department. At present, the teaching load is six hours each semester, in addition to the duties of meeting with students and grading papers. There are approximately 20 graduate students in statistics with financial support. These are mostly teaching assistantships, but there are also a few research assistantships and fellowships. From time to time advanced students are placed into research assistantships as data analysts or statistical consultants with other campus units. Applications for financial aid are only processed once a year, for admission for the fall semester.

Contact
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Mathematical Statistics Program
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Website: http://stat.umd.edu

Courses: STAT

Admissions
General Requirements
• Statement of Purpose
• Transcript(s)
• TOEFL/IELTS/PTE (international graduate students (https://gradschool.umd.edu/admissions/english-language-proficiency-requirements)): TOEFL/IELTS required even if eligible for waiver.

Program-Specific Requirements
• Letters of Recommendation (3)
• Graduate Record Examination (GRE)
• GRE Subject (Math): GRE Math Subject required for funding and highly recommended for all others.
• CV/Resume
• Supplementary Application (https://gradschool.umd.edu/sites/gradschool.umd.edu/files/uploads/admissionsforms/umdsupplementaryapplicationmathandstat.pdf)
• Publications/Presentations
• Advanced Textbooks (section of application)

Spring admission does not offer financial support of any kind. Applicants should also contact department prior to application.

For more admissions information or to apply to the program, please visit our Graduate School website: www.gradschool.umd.edu/admissions

Application Deadlines
Type of Applicant          Fall Deadline  Spring Deadline
Domestic Applicants
US Citizens and Permanent Residents  18 Jan  14 Dec
International Applicants
F (student) or J (exchange visitor) visas; A, E, G, H, I and L visas and immigrants  18 Jan  28 Sep

Other Deadlines: Please visit the program website at http://stat.umd.edu

Requirements

Facilities and Special Resources
The STAT Program cooperates closely with the Mathematics Department and the Applied Mathematics, Statistics and Scientific Computation (AMSC) Program. The Program's faculty are actively involved in research
in applied and theoretical areas of statistics and maintain close ties with applied scientists in several federal agencies.

The Program sponsors weekly seminars in Statistics and in Probability. In addition, Research Interaction Teams (RIT’s) cover topics of current statistical interest.

Computing is integrated into the applied courses, and the Program also offers a course "Computational Methods in Statistics".

By scheduling many of its applied and Master’s level courses in late-afternoon time slots, the Program facilitates and invites part-time graduate study.

### Faculty

<table>
<thead>
<tr>
<th>Last Name</th>
<th>First/Middle Name</th>
<th>Graduate Faculty Status</th>
<th>Academic Credentials</th>
<th>Positions</th>
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<tbody>
<tr>
<td>Dolgopyat</td>
<td>Dmitry</td>
<td>Full Member</td>
<td>Diploma, Moscow State University, 1994; Ph.D., Moscow State University, 1997.</td>
<td>Professor, Mathematical Statistics Professor, Mathematics</td>
</tr>
<tr>
<td>Freidlin</td>
<td>Mark I.</td>
<td>Full Member</td>
<td>M.S., Moscow State University, 1959; Ph.D., Steklov Mathematical Institute, 1962; Doctor, Moscow State University, 1970.</td>
<td>Distinguished University Professor, Applied Mathematics &amp; Statistics, and Scientific Computation Distinguished University Professor, Mathematical Statistics Distinguished University Professor, Mathematics Professor, Mathematics</td>
</tr>
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</table>

<p>| Kagan     | Abram             | Full Member             | M.A., University of Tashkent, 1958; Ph.D., University of Leningrad, 1963; D.Sc., 1967. | Professor, Mathematical Statistics Professor, Mathematics |
| Koralov   | Leonid            | Full Member             | B.S., Moscow State University, 1991; Ph.D., State University of New York at Stony Brook, 1998. | Professor, Mathematical Statistics Professor, Mathematics |
| Lahiri    | Partha            | Full Member             | Ph.D., University of Florida, 1986. | Professor, Intermediate Survey Methodology Professor, Applied Mathematics &amp; Statistics, and Scientific Computation Professor, Mathematical Statistics Professor, Survey and Data Science (online) Professor, Survey Methodology Professor, Survey Statistics |</p>
<table>
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<tr>
<th>Ren Jian-Jian</th>
<th>Full Member</th>
<th>B. S., Peking Univ., 1982; M. S. Univ. of North Carolina-Chapel Hill, 1989; Ph.D., Univ. of North Carolina-Chapel Hill, 1990</th>
<th>Professor, Mathematical Statistics</th>
<th>Yang Grace L.</th>
<th>Full Member</th>
<th>B.A., National Taiwan University, 1960; M.A., University of California-Berkeley, 1963; Ph.D., 1966.</th>
<th>Professor Emerita, Mathematics</th>
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<tr>
<td>Saegusa Takumi</td>
<td>Full Member</td>
<td>LL.B., Univ. of Tokyo, 2002 M.S., Cal. State Northridge, 2005 Ph.D., Univ. of Washington, 2012</td>
<td>Assistant Professor, Mathematical Statistics</td>
<td>Assistant Professor, Mathematics</td>
<td>Assistant Professor, Mathematics</td>
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<tr>
<td>Slud Eric Victor</td>
<td>Full Member</td>
<td>B.A., Harvard University, 1972; Ph.D., Massachusetts Institute of Technology, 1976.</td>
<td>Professor, Applied Mathematics Statistics, and Scientific Computation Professor, Mathematical Statistics Professor, Mathematics</td>
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<tr>
<td>Smith Paul J.</td>
<td>Full Member</td>
<td>B.S., Drexel, 1965; M.S., Case Western Reserve, 1967; Ph.D., Case Western Reserve U., 1969.</td>
<td>Associate Chair, Mathematics Director, Mathematical Statistics Associate Professor, Applied Mathematics &amp; Statistics, and Scientific Computation Associate Professor, Mathematical Statistics Associate Professor, Mathematics</td>
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<td>Sun Tingni</td>
<td>Full Member</td>
<td>B.S., Peking Univ., 2007 M.S., Rutgers, 2012</td>
<td>Assistant Professor, Mathematical Statistics Assistant Professor, Mathematics</td>
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