

BCASA NEWSLETTER

Boston Chapter of the American Statistical Association

Serving

Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont

Volume 35, No. 2, November 2016

Homepage: <http://www.amstat.org/chapters/boston>

E-Mail: BostonChapterASA@gmail.com

SCHEDULED EVENTS & MEETINGS

November 16, 2016	Arlene Ash Presentation on Massachusetts Medicaid	Worcester, MA
December 1, 2016	BCASA Award for Outstanding Undergraduate Teaching of Statistics Banquet	Boston, MA
January 28, 2017,	BCASA Annual Winter Potluck Dinner and Party	Carlisle, MA
February 2017, TBD	Annual Mosteller Statistician of the Year Award Banquet	TBD
April 8, 2017	Short Course: Introduction to Statistics for Spatio-Temporal Data	Cambridge, MA
April 21-22, 2017	The New England Statistics Symposium (NESS)	Storrs, CT
May 5, 2017	Adaptive Designs in Clinical Trials	Cambridge, MA
September 23, 2017	2017 New England Symposium on Statistics in Sports	Cambridge, MA

Event schedule at the chapter website: <http://www.amstat.org/chapters/boston>

Detailed announcements appear later in this newsletter. All events are announced in advance to members on our email list. We are currently planning events for the coming year. If you have suggestions please contact Program Chair Elect Fotios Kokkotos, fkokkotos@hotmail.com

EVENTS & MEETINGS

LATE AFTERNOON LECTURE SERIES



Technical solutions for practical problems in accounting for risk in Massachusetts' Medicaid program

**Arlene Ash, Professor and Chief, Division of Biostatistics & Health Services Research,
Department of Quantitative Health Sciences, University of Massachusetts Medical School**

Date: Wednesday, November 16, 2016

Time: Reception: 3:30 p.m.; Presentation: 4:00 p.m.

Location: 155 Park B. and Linda Smith Laboratories, The College of the Holy Cross, Worcester, MA

Directions: <http://www.holycross.edu/maps-directions-and-transportation> (includes map and directions)

Cost: Reception and Presentation: free.

Registration: <http://bcasa2016ash.eventbrite.com>. Registration requested by November 14.

Abstract:

Research begun in the early 1980s has led to sophisticated tools, such as Verisk Health's DxCG relative risk score (RRS) for predicting a year's health care costs (and other outcomes) for individuals and groups of people from each person's age, sex and medical problems (diagnoses) coded on electronic claims (or encounter) records during a year. For some years now, MassHealth (our State's Medicaid program) has used the DxCG RRS in calculating payments to managed care organizations (MCOs). The goal is to ensure that a plan gets the right amount of money to care for the needs of each person who signs up – more for sicker people, less for healthy ones. Over the past year, our team has been working with the State to add social determinants of health data and other problems not currently accounted for to the RRS – which they are currently implementing for next year's payments. I will discuss several practical issues, such as how to “adjust for” factors that we cannot directly measure, and how we have addressed them.

Full disclosure: I am a developer of the DxCG models and was, until recently, a “Senior Scientist” consultant to Verisk Health.

Speaker Biography:

Arlene Ash is Professor and Chief of the Division of Biostatistics & Health Services Research in the Department of Quantitative Health Sciences at University of Massachusetts Medical School. She is a methods expert on risk adjustment in health services research. Arlene has pioneered tools for using administrative data to monitor and manage health care delivery systems, including those now relied upon by the US Medicare program. In 1996, she co-founded DxCG, Inc., a company with over 350 national and international clients to promote “fair and efficient health care” via predictive software, which is now the science division of Verisk Health. Many of her more than 150 research publications reflect her long-standing interests in women’s health; gender, age and racial disparities; and, quality, equity and efficiency in health care financing and delivery. She is also actively involved in improving US electoral integrity. Arlene earned her Ph.D. in Statistics within Mathematics from the University of Illinois in Chicago in 1977. She is a fellow of the American Statistical Association and AcademyHealth and a former president of the Boston Chapter of the ASA.

BCASA Award for Outstanding Undergraduate Teaching of Statistics Banquet

Erl Sorensen, Senior Lecturer, Mathematical Sciences Department, Bentley University



Date: Thursday, December 1, 2016

Time: Reception: 5:45 p.m., Dinner: 6:15 p.m., Presentation: 7:00 p.m.

Location: Faculty Staff Dining Room, adjacent to the cafeteria in the basement of the Main College Building, Simmons College, 300 The Fenway, Boston, MA

Directions: <http://www.simmons.edu/about-simmons/contact-us> (includes map and directions)

Parking: Free with tickets distributed at the event

Cost: Dinner: \$20 for chapter members; \$25 for non-members; students free.

Presentation: free.

Registration: <http://bcasa2016sorensen.eventbrite.com>. Registration requested by November 28.

Abstract: Teaching undergraduate statistics can be a challenging task. Many students are there just because it is “required” in their program of study. Initial attitudes vary from fear to excitement. My challenge is to make the learning of statistics fun, as well as meaningful. I present many of the methods, illustrations, and principles that I have found to “turn students on” to statistics.

Speaker Biography: Erl Sorensen is a Senior Lecturer at Bentley University in the Mathematical Sciences Dept. He has previously taught at Northeastern University and Syracuse University where he did his doctoral studies. His major areas of interest are applied statistics, applied probability, and sampling methodology. He has earned numerous awards for teaching excellence.

ASA Short Course: Introduction to Statistics for Spatio-Temporal Data

Instructor: Professor Christopher Wikle, University of Missouri

Date: April 8, 2017

Time: 9:30 to 4:00 PM

Location: Harvard University

Room: TBD

Registration information: To be posted in early February



Abstract: The course gives a contemporary presentation of spatio-temporal processes and data analysis, bridging classic ideas with modern hierarchical statistical modeling concepts. From understanding environmental processes and climate trends to developing new technologies for mapping public-health data and the spread of invasive-species, there is a high demand for statistical analyses of data that take spatial, temporal, and spatio-temporal information into account. This course presents a systematic approach to key quantitative techniques for the statistical analysis of such data that features hierarchical statistical modeling, with an emphasis on dynamical spatio-temporal models. The material follows the book by Cressie and Wikle, *Statistics for Spatio-Temporal Data* (2011) - John Wiley and Sons, Hoboken, NJ. Many examples will be included, along with some basic applications from various R packages.

Note: Lunch will be provided and two copies of Cressie and Wikle (2011) will be raffled out at the end of the day.

Prerequisite: The course material assumes Masters level knowledge of probability and statistical inference and good understanding of matrix algebra.

About the Instructor: Christopher K. Wikle is Professor of Statistics at the University of Missouri, with additional appointments in Soil, Environmental and Atmospheric Sciences and the Truman School of Public Affairs. He received a PhD co-major in Statistics and Atmospheric Science in 1996 from Iowa State University. He was research fellow at the National Center for Atmospheric Research from 1996-1998, after which he joined the MU Department of Statistics. His research interests are in spatio-temporal statistics applied to environmental, ecological, agricultural and federal survey applications, with particular interest in dynamics. Awards include elected Fellow of the American Statistical Association, Distinguished Alumni Award from the College of Liberal Arts and Sciences from Iowa State University, ASA ENVR Section Distinguished Achievement Award, the MU Chancellor's Award for Outstanding Research and Creative Activity in the Physical and Mathematical Sciences and the Outstanding Graduate Faculty Award from the UM Graduate School. His book *Statistics for Spatio-Temporal Data* (co-authored with Noel Cressie) was the 2011 PROSE Award winner for excellence in the Mathematics Category by the Association of American Publishers and the 2013 DeGroot Prize winner from the International Society for Bayesian Analysis. He is Associate Editor for several journals and is one of six inaugural members of the Statistics Board of Reviewing Editors for Science.

2017 New England Statistics Symposium at University of Connecticut, Save the Date!

The 31st New England Statistics Symposium (NESS) will be hosted by the Department of Statistics, University of Connecticut, on April 21-22, 2017. We will be celebrating the 30th anniversary since the NESS was started at UConn in 1987! The purpose, as usual, is to bring together statisticians from all over New England and beyond to a central location to share research, discuss emerging issues in the field and network with colleagues.

The 2017 symposium will feature three short courses, two invited plenary talks, invited paper sessions, and posters. There will be a student paper competition and a student poster competition sponsored by our industrial partners. The invited talks will include a presentation on “New Vistas in Statistics with Applications” chaired by Aleksey Polunchenko, Binghamton University. The keynote speakers will be Xihong Lin from Harvard University and David Madigan from Columbia University. The three full-day (8:30am-5:00pm) short courses, to be held on Friday, April 21, are:

- 1) Mixed-Effects Models and Applications: Douglas Bates, University of Wisconsin
- 2) Statistical Learning and Applications: Robert Aseltine, University of Connecticut Health Center, and Kun Chen, University of Connecticut
- 3) Subgroup Analysis and Treatment Scoring with Application in Precision Medicine: Menggang Yu, University of Wisconsin

Call for Invited Session Proposals:

The program committee is inviting session proposals on all aspects of statistics and probability. Each invited session will have 105 minutes. A proposal should include the session title, the session organizer (name, affiliation, email), the session chair, and 4-5 invited speakers (name, affiliation, email, and talk title). Please submit your proposal to Prof. Haim Bar (haim.bar@uconn.edu) as early as possible.

IBM Student Paper Competition:

Students are encouraged to submit posters for consideration of 3 student paper awards sponsored by the IBM Watson Research Center. Manuscript needs to be received no later than Monday, March 20, 2017.

Student Poster Competition:

Students are encouraged to submit posters for consideration of 3-5 student poster awards sponsored by one of our industrial partners. The abstract needs to be received no later than Monday, April 3, 2017.

Registration:

The online registration system will open on December 1, 2016.

The 2017 NESS organizing committee consists of Professors Haim Bar, Jun Yan (chair), and Yuping Zhang. The webpage of the conference is at <http://ness.stat.uconn.edu>, with further details to be filled as they become known. Please mark your calendar and plan to attend. If you have any questions or suggestions, please contact Jun Yan at jun.yan@uconn.edu.

2017 New England Symposium on Statistics In Sports Save the date!

Date: Saturday, September 23, 2017

Location: Harvard University Science Center, 1 Oxford Street, Cambridge, MA

Conference co-chairs: Mark Glickman and Scott Evans.

The 2017 New England Symposium on Statistics in Sports will be a meeting of statisticians, statistical researchers, and quantitative analysts connected with sports teams, sports media, and universities to discuss common problems of interest in statistical modeling and analysis of sports data. The symposium format will be a mixture of invited talks, a poster session, and a panel discussion. Complete up-to-date information is posted at: www.NESSIS.org.

NEWS & ANNOUNCEMENTS

Boston Chapter American Statistical Association Invites Nominations for the 2017 Outstanding Undergraduate Statistics Teaching Award

The criteria for the award are intentionally few and non-specific. The aim is to ultimately acknowledge as wide a variety of statistics education accomplishments as possible. For instance, the winner may have published widely on statistical pedagogy; may have created an exemplary undergraduate program in statistics; may have inspired several generations of undergraduates to pursue careers in statistics, and so on.

The awardee will:

- Be a faculty member at a two-or-four-year college or university in MA, RI, NH, VT, or ME whose primary responsibility is teaching statistics to undergraduates. Those on approved leave during the academic year in which they are nominated qualify if they fulfilled the requirement the previous year.
- Hold membership in the ASA and the BCASA.
- Have more than three years of experience in teaching statistics.

Further:

- Winners of the BCASA's Mosteller Award will not be eligible for this teaching award.
- Nominees unsuccessful in one year will be automatically reconsidered in the three succeeding years.

For more information about the award contact Robert Goldman at robert.goldman@simmons.edu. Nominations forms may be found on the BCASA website at <http://www.amstat.org/chapters/boston/>. The deadline for nominations for the 2016-17 award is February 15, 2017.

Please tell us your preferences for the ASA Traveling Courses!

The ASA Council of Chapters (COC) Traveling Course Program makes short courses on a variety of statistical topics available to local ASA Chapters at relatively low cost. For example, the short course “Introduction to Statistics for Spatio-Temporal Data” to be given by Professor Christopher Wikle on April 8, 2017 at Harvard University is part of the 2016 COC Traveling Course Program. For a list of 2017 course offerings, please visit the COC website:

<http://community.amstat.org/COC/chapterresources/travelingcourse>

Please use the following Survey Monkey link to express your preferences for the courses:

<https://www.surveymonkey.com/r/9538G68>

If you have additional comments or other program suggestions for the Boston Chapter, please send them to Program Chair Elect Fotios Kkokotos fkokkotos@hotmail.com or President Elect Greta Ljung at greta.ljung@verizon.net

2016 Lagakos Alumni Award Recipient

On October 20, 2016 Judith Goldberg '72 received the Lagakos Alumni Award from the Biostatistics Department in the Harvard T.H. Chan School of Public Health. The recipient is a Professor of Biostatistics at New York University School of Medicine and Director of the Biostatistics Shared Resource of the NYU Cancer Institute. Professor Goldberg made a presentation entitled "Statistics in Biomedical Research: Experiences from the Past and Perspectives for the Future". Here is the talk's abstract: "The impact of statistics on advances in biomedical research in both academia and industry will be explored through examples from my personal experiences in research collaborations that resulted in major implications for health and health policy. Statistical thinking plays a critical role in the evaluation of new approaches to detect, treat, and prevent disease. Experiences with the analysis of the Health Insurance Plan Mammography Study established mammography as a useful screening method for the early detection of breast cancer. Other experiences in the design and analysis of studies to evaluate new treatments for hematologic malignancies, breast cancer and other diseases illustrate issues that were addressed using statistical methods that were available at the time. New statistical methods and computing advances allow us to address the limitations of these earlier approaches. As we move into the future, the explosion of data from new technologies including genomics, proteomics, metabolomics, and imaging, among others, are rapidly changing the trajectory of medical research. These advances bring new opportunities and challenges for statistics that are enabled by the growth of bioinformatics and informatics."

The Annual Lagakos Distinguished Alumni Award has been established in memory of Dr. Stephen Lagakos, a faculty member and former chair of the Department of Biostatistics who passed away in a tragic automobile accident in 2009. Professor Lagakos was a leader in the Department, the School of Public Health, and more broadly, in the international community of quantitative biomedical researchers. Steve's qualities of commitment, passion, intellectual brilliance, and personal generosity had a direct personal impact on our lives; and his contributions to biostatistics and to AIDS research were fundamental. This award serves to honor Steve's distinguished career, and to recognize Department alumni whose research in statistical theory and application, leadership in biomedical research, and commitment to teaching have had a major impact on the theory and practice of statistical science. The award will be open to all who have an earned degree through the department, regardless of length of time since graduation or type of degree. The award recipient will be invited to the school to deliver a lecture on their career and life beyond the Department.

Nominations are welcome for the next award, to be given in Fall 2017. Please send nominations via email or by mail to:

Lagakos Alumni Award Committee
Harvard T. H. Chan School of Public Health
Department of Biostatistics
Building 2, 4th Floor
655 Huntington Avenue
Boston, MA 02115

Nominations should include contact information for yourself and your candidate, and the candidate's curriculum vita, if available. Please include a letter describing the contributions of the candidate, specifically highlighting the criteria for the award. Supporting letters and materials would be extremely helpful to the committee, but are not required. All nominations must be received by June 3, 2017.

2016 BOW DataFest Held at Olin College to Promote Data Science and Statistics

Babson, Olin, and Wellesley (BOW) colleges jointly organized the first BOW American Statistical Association DataFest that was held at Olin from April 1st to 3rd. The event was intended to connect data-focused students, faculty, and staff at our three colleges to celebrate data and learn from each other. Similar to a typical DataFest, students gathered for 2.5 days to explore and develop insights about a large and complex data set that was kept secret until the day of the event. The venue commenced on Friday evening, where approximately 35 students from the three colleges arrived at the Milas Hall of Olin College (where the event was held) and started working on the data. Throughout this time, faculty and staff from all three colleges circulated to provide advice and support.

At the end of the event, each team of students presented their work to the panel of judges. The judges for the event were Shannon Stock (College of the Holy Cross), Garen Oganezov (Citizen's Bank), and Curt Savoie (Commonwealth of Massachusetts). Among the awarded prizes were those for Best Business Proposal, Best Insight, and Best Visualization. The event met its goals, that is – to promote statistics and data science; to foster students' data analysis, statistical, and computational skills; to recognize excellent student work; and to connect the data science and statistics communities at our colleges. The informal feedback received regarding the event was positive, and students were appreciative of the opportunity to enhance their practical knowledge of statistics. The event generated local publicity through campus newspapers that were published after the completion of the venue.

The leadership team of BOW DataFest would like to thank the following organizations for their generous support: Boston Chapter of the American Statistical Association, RStudio, Google, DataCamp, and the BOW three-college collaboration.

Leadership Team:

Allen Downey, Professor, Olin College

781-292-2558

allen.downey@olin.edu

Davit Khachatryan, Assistant Professor of Statistics/Analytics, Babson College

781-239-6475

dkhachatryan@babson.edu

Cassandra Pattanayak, Guthman Director of the Quantitative Analysis Institute, Wellesley College

781-283-3435

cpattanayak@wellesley.edu

Additional coordinator:

John McKenzie, Associate Professor Emeritus of Statistics, Babson College

781-239-4479

mckenzie@babson.edu

Mu Sigma Rho Membership Nominations

It's not too early to start thinking about your outstanding statistics students and considering nominating them for membership in Mu Sigma Rho. Both undergraduate and graduate students can be nominated. Information can be found at <http://math.smith.edu/~nhorton/msr.html> or by contacting Liam O'Brien at lobrien@colby.edu.

Please Join the BCASA Planning Committee

Chapter activities are planned and organized by a core group known as the Planning Committee. Please consider joining us. The committee is open to all interested chapter members, regardless of whether they are also members of the ASA. We meet approximately every six weeks to plan upcoming events of the chapter. The meetings are held in the evening and dinner is provided. For more information contact Chapter President Elect Greta Ljung, greta.ljung@verizon.net.

JOB OPPORTUNITIES

Statistician Associate I Tufts Clinical and Translational Science Institute (CTSI)

The Biostatistics, Epidemiology, and Research Design (BERD) Center in the Tufts CTSI is a critical resource supporting research teams by providing statistical collaboration, consulting, and mentoring services to the Tufts CTSI research community. The Statistician Associate I is responsible for conducting statistical analyses and performing data management for clinical research projects, in conjunction with BERD Center senior statisticians.

Principal Duties and Responsibilities:

Work with researchers and senior statisticians to provide statistical support for research projects, including study design, database construction, data management, and analysis. Ensure that databases comply with HIPAA regulations. Assist with preparation of grants and research protocols. Assist with preparation of manuscripts and presentations. Attend regular research meetings. Maintain and increase statistical skills through educational opportunities including seminars, lectures, courses, and reading of current literature.

Job Knowledge and Skills:

Knowledge of and experience with application of statistical methods for analysis of biomedical data and ability to learn and apply unfamiliar methodologies. Programming capabilities in SAS and R and ability to learn new statistical packages. Ability to work independently as well as in a collaborative, team-oriented environment. Excellent organizational skills and attention to detail. Excellent oral and written communication skills in English, particularly the ability to communicate technical information to non-technical colleagues. Ability to work on multiple projects in the same time frame, including both long-term and short-term projects. Ability to self-monitor progress on long-term projects and complete assigned tasks independently. Ability to change priorities quickly in response to deadlines.

Education: Master's degree in statistics or biostatistics, or related field required.

Experience:

Two to three years, preferably in a medical research environment is desired. Experience in managing statistical databases and analyzing biomedical data is required. Experience with SAS and R programming is required. Experience with Excel, REDCap and StudyTRAX is desirable.

Apply at

<https://jobs.tuftsmedicalcenter.org/job/boston/statistical-associate-i/1172/3350999>

or contact Norma Terrin, PhD, Director of the Biostatistics, Epidemiology, and Research Design (BERD) Center, at nterrin@tuftsmedicalcenter.org

Assistant Professor of Applied Mathematics
Wentworth Institute of Technology
Boston, MA

Category: Faculty - Science - Mathematics

Application Due: Open Until Filled

Type: Full Time

Wentworth Institute of Technology in Boston, MA seeks to fill an Assistant Professor of Applied Mathematics position that would start in September 2017.

We are especially seeking candidates with data science, operations research or actuarial experience in industry and/or in higher education.

The majority of students that our applied math professors teach are engineering majors and computer science majors. Many of these students are also applied math minor students. Professors in the Department of Applied Mathematics do teach and mentor applied math major students, also, but they are a small percentage of the student body. We value creative and passionate educators that can teach all students.

We are also excited about educating students in an environment that fosters EPIC-Learning: Externally Collaborative, Project-based, Interdisciplinary Culture for Learning. This EPIC approach to learning mimics what happens in many workplaces across the country. The undergraduate Applied Mathematics major is an interdisciplinary curriculum, so we seek applications from candidates with wide intellectual interests and a demonstrated commitment to excellence in teaching, advising and scholarship. The ideal candidate must be able to develop interdisciplinary projects and foster connections within the Applied Math Department, with other departments at Wentworth and with the external professional community that enrich student experience.

Faculty participate in teaching (especially project-based); curricular development; scholarly activities; advising applied math majors; recruiting high school and current students for the Applied Math B.S. program; collaborating with our Industrial Professional Advisory Committee (and recruiting new members for this committee, as needed) and other service to the Applied Mathematics Department and to the Institute.

If you are interested in preparing our next generation of engineers and designers and if you have substantial experience with project-based learning and undergraduate mathematics education innovation then we'd love to hear from you. Please apply at <https://jobs.wit.edu/>. In your application please include: 1) a cover letter that addresses this job description; 2) a current cv or resume, including references; and 3) a statement of your teaching philosophy.

Wentworth seeks to increase the diverse perspectives of its faculty and encourages applications from members of underrepresented groups in STEM.

Equal Opportunity/Affirmative Action Employer

Wentworth is a Tobacco-free Community

**Assistant Director for Operations, ECOG-ACRIN Boston Biostatistics Center
Dana-Farber Cancer Institute**

Company Information: Located in Boston and the surrounding communities, Dana-Farber Cancer Institute brings together world renowned clinicians, innovative researchers and dedicated professionals, allies in the common mission of conquering cancer, HIV/AIDS and related diseases. Combining extremely talented people with the best technologies in a genuinely positive environment, we provide compassionate and comprehensive care to patients of all ages; we conduct research that advances treatment; we educate tomorrow's physician/researchers; we reach out to underserved members of our community; and we work with amazing partners, including other Harvard Medical School-affiliated hospitals.

Dana-Farber Cancer Institute is an equal opportunity employer and affirms the right of every qualified applicant to receive consideration for employment without regard to race, color, religion, sex, gender identity or expression, national origin, sexual orientation, genetic information, disability, age, ancestry, military service, protected veteran status, or other groups as protected by law.

Duties and Responsibilities: Dana-Farber's Department of Biostatistics and Computational Biology is the home of the ECOG-ACRIN Cancer Research Group's Boston Biostatistics Center. ECOG-ACRIN is part of the NCI National Clinical Trials Network (NCTN), and has been conducting collaborative clinical trials since 1955. The Boston-based team is responsible for planning, executing and reporting the group's therapeutic clinical trials. There are currently 24 ongoing studies with target accrual of over 11,000 patients. Sixteen statisticians and 4 other staff members work in ECOG-ACRIN's Boston Biostatistics Center.

Under the direction of the Group Statistician/Director, the Assistant Director for Operations guides and manages all operational aspects of the Center. Major areas of managerial responsibility include oversight of statisticians, database administrators, and administrative support staff, and serving as liaison/advisor to managers in other ECOG-ACRIN offices. The Assistant Director may serve as the lead statistician for PrECOG, a not-for-profit, privately funded clinical trials arm of ECOG-ACRIN. The Assistant Director also has scientific committee leadership responsibilities and serves as a therapeutic statistician along with the other ECOG-ACRIN statistical staff, with corresponding scientific responsibilities.

Position Qualifications: Qualifications

Advanced degree (MS or PhD) in biostatistics

5 or more years of experience planning and conducting multi-site clinical trials is required, preferably in the NCTN

Excellent leadership and communication skills

Demonstrated experience managing personnel, providing reviews, training and mentoring

Knowledge, Skills and Abilities Required

The position requires statistical and managerial expertise, an interest in facilitating smooth operations of a complex organization, and enthusiasm for mentoring and supporting other team members.

Website: <http://bcb.dfci.harvard.edu/index.php>

Application Information: <https://careers-dfci.icims.com/jobs/4534/assistant-director-for-operations%2c-ecog-acrin-boston-biostatistics-center/job>

**Post-doctoral fellow
Harvard Medical School**

Company Information: Beth Israel Deaconess Medical Center is one of the nation's preeminent academic medical centers, and one of the major teaching hospitals of Harvard Medical School. We rank third in the country for National Institutes of Health funding among independent hospitals, and take advantage of strong ties to both Harvard Medical School and the Harvard T.H. Chan School of Public Health.

The Richard A. and Susan F. Smith Center for Outcomes Research in Cardiology is devoted to addressing the most pressing issues in cardiovascular care through innovative and rigorous analysis of data. The Smith Center, established in 2015 through the generous support of Richard and Susan Smith, is the first center of its kind among the Harvard hospitals, and will leverage the deep expertise of its faculty members in the areas of observational research methods, comparative effectiveness research, prediction modeling, cost-effectiveness evaluation, and clinical trials.

Duties and Responsibilities: The Smith Center for Outcomes Research in Cardiology at Beth Israel Deaconess Medical Center in Boston, MA is seeking applications for a 3-year post-doctoral fellow position. In this role, the individual will engage in a variety of collaborative research projects and methodological research for causal inference and prediction modelling under the supervision of a faculty biostatistician. The candidate will receive both technical training in statistics and exposure to the collaborative research activities involving clinicians, statisticians, computer scientists and epidemiologists.

Position Qualifications: The candidate should have a PhD in statistics or biostatistics with fluent programming skills in SAS or R. Expertise in one or multiple areas listed below are preferred:

1. Causal inference (e.g. propensity scores, instrumental variables, outcome regression)
2. Competing-risk survival analysis
3. Hierarchical models
4. Machine learning methods

Salary Range: Salary to be commensurate with qualifications and experience of candidate

Application Information: Applicants should include a cover letter, CV and a list of three references. Please address letters to

Robert W. Yeh, MD MSc, Director, Smith Center for Outcomes Research in Cardiology, Beth Israel Deaconess Medical Centers, and send via email to jlhealy@bidmc.harvard.edu.

Director of the Center for Biomedical Informatics Dartmouth College

Company Information: The Geisel School of Medicine at Dartmouth College and the Dartmouth Hitchcock Medical Center are located in the picturesque Upper Connecticut River Valley on the NH and VT border; a vibrant, academic and professional community offering excellent schools, lively arts, and an unmatched quality of life in a beautiful, rural setting. Amenities associated with urban areas in Boston MA, Burlington VT, and Montreal QC are all within a few hours drive.

Dartmouth College is an equal opportunity/affirmative action employer with a strong commitment to diversity and inclusion. We prohibit discrimination on the basis of race, color, religion, sex, age, national origin, sexual orientation, gender identity or expression, disability, veteran status, marital status, or any other legally protected status. Applications by members of all underrepresented groups are encouraged.

Position Title: Director of the Center for Biomedical Informatics

Duties and Responsibilities: The Geisel School of Medicine at Dartmouth College (Geisel) and its major clinical partner, Dartmouth Hitchcock, seek an outstanding individual who is pursuing a vigorous, independent research program focused on developing innovative informatics methods and technologies to advance medical care, biomedical science, and human health to join our faculty and lead our efforts in Biomedical Informatics. The successful individual will also serve as Director of Biomedical Informatics for the Dartmouth Clinical and Translational Science Institute (CTSA; called Synergy at Dartmouth), helping to establish research linkages between investigators and the electronic health record system at Dartmouth-Hitchcock Medical Center and connecting Dartmouth's CTSA with the wider national CTSA network.

The successful candidate will be expected to lead in efforts to further develop biomedical informatics at Geisel and Dartmouth-Hitchcock within an environment with strong commitments to data and biomedical sciences supported through core departments (e.g., Biomedical Data Science, Epidemiology, Molecular and Systems Biology, and Computer Science), The Dartmouth Institute for Health Policy and Clinical Care (TDI, an international leader in health services research, medical epidemiology, and health policy), Norris Cotton Cancer Center (NCCC; one of 47 comprehensive cancer centers), The Population Health Collaboratory, supercomputing networks (e.g., Discovery) and Synergy.

Position Qualifications: Applicants must have earned a PhD and/or MD (or equivalent), have formal advanced training in biomedical informatics, computer science, or a related field, a successful track record of peer-reviewed publications, and a history of extramural funding. The successful candidate will be provided with a faculty appointment at Geisel commensurate with experience. Candidates with appropriate experience may also serve as the Chief Research Information Officer at Dartmouth Hitchcock. Expectations for teaching and mentoring are a critical part of this role, and individuals will be provided with such opportunities through membership in relevant PhD graduate programs (e.g., Program in Quantitative Biomedical Sciences, Program in Molecular and Experimental Medicine, and Program in Molecular and Cellular Biology), the Dartmouth-Hitchcock Clinical Informatics Program, and Synergy.

Website: <https://bmds.dartmouth.edu/>

Application Information: Applicants should submit a PDF file of their curriculum vitae and 2-3 page description of their research interests and future research plans, as well as have 3 letters of reference sent directly to the to Mark.A.Milam@Dartmouth.edu and addressed to Chair of the Search Committee, Dr. Lisa A. Marsch, Ph.D. Review of applications will begin November 1, 2016 and continue until the position is filled.

Contact Email: mark.a.milam@dartmouth.edu

Full-Time Tenure-Track Faculty Worcester Polytechnic Institute

Department of Mathematical Sciences
100 Institute Road
Worcester Polytechnic Institute

Duties and Responsibilities: Looking for faculty colleagues who engage deeply in both teaching and impactful research within a curriculum that embraces student projects and independent learning? Consider joining the faculty at WPI.

The Data Science program anticipates hiring full-time tenure-track faculty starting Fall 2017 to strengthen this important interdisciplinary area. Outstanding candidates in any area related to Data Science will receive full consideration. Candidates should have a PhD in Mathematical Sciences, Statistics, Computer Science, or a closely related field, and the potential for excellence in teaching and research.

The new faculty would join the strong team of existing Data Science faculty working on interdisciplinary research related to the analysis of big data on real-world grand challenge problems with societal impact. Areas of strength in Data Science at WPI include statistical machine learning, compressed sensing, big data analytics, large-scale data management and computing, data mining and numerous Data Science applications from digital health, cyber security, smart cities to bioinformatics.

The highly interdisciplinary Data Science program at WPI, a collaboration between Computer Science, Mathematical Sciences and the Robert A. Foisie School of Business, has undergone major growth since its inception in 2014 supported by a cluster hire of six faculty in Data Science and closely related disciplines. The signature Data Science program offers on-campus degree programs at all levels, including an undergraduate minor in Data Science, an MS degree in Data Science, and the first interdisciplinary PhD degree in Data Science in the nation.

Founded in 1865, WPI is one of the nation's first technological universities. A highly selective private university located within an hour of Boston, WPI is consistently ranked among the top 70 research institutions by US News & World Report. The university is home to an innovative and intensive project-based curriculum that empowers students with the knowledge and skills to address real world problems around the globe, an approach repeatedly cited for excellence by The Fiske Guide to Colleges and The Princeton Review. Located in the heart of New England, WPI is surrounded by cultural and recreational opportunities. The UMass Medical Center, a large number of technology companies and many colleges and universities are located in the immediate area making it ideal for two-career families.

Position Qualifications: WPI is interested in applicants with research and teaching expertise in all areas of Data Science, but in particular in applicants with strong background complementary to the existing expertise; including in statistical learning, predictive modeling, text mining, compressed sensing, machine learning theory, distributed computing, large-scale data management, big data analytics, signal processing, and Data Science applications. In addition to these specific areas, outstanding candidates in any area of Data Science will receive full consideration.

Website: <https://www.mathjobs.org/jobs/jobs/9261>

Application Information: Candidates should include detailed research and teaching statements, vitae and contact information for at least three references. The deadline for applications is December 16, 2016 with applications continuing to be considered after that date until the positions are filled. Applications should be submitted via mathjobs.

We are an Equal Opportunity Employer and do not discriminate against applicants due to race, color, religion, sex, sexual orientation, gender identity, national origin, veteran status or disability. We are looking for individuals who value creativity, diversity, inclusion, and collaboration. Employment of the successful candidate will be contingent upon the successful completion of a pre-employment criminal background check.

Contact Email: datascience@wpi.edu

Application Deadline: 12/16/2016

**Assistant Professor in Biostatistics
University of Massachusetts**

Company Information: The Department of Biostatistics and Epidemiology is a highly collaborative group of 18 faculty researchers in a variety of areas. The Biostatistics program has nine faculty members whose methodological research focuses on areas such as Bayesian methods, methods for high- dimensional data, biomarker discovery, population genetics, bioinformatics, clinical trials, time-series analysis, missing data, survey sampling, and survival analysis. Specific areas of application include genomics, demography, epidemiology, infectious disease, analysis of electronic medical record data, and addiction research. Department members collaborate extensively with faculty from other departments across campus, the University's Medical School, and Baystate Medical Center. Additionally, active collaborations exist between biostatistics faculty and the UN, WHO, CDC, and other governmental agencies and academic institutions in the US and internationally.

Tenure -track positions at the University of Massachusetts receive nine months of committed salary support. UMass - Amherst is located in the beautiful Pioneer Valley of Western Massachusetts, with easy access to New York, Boston, and Montreal, and is part of the Five College consortium that also includes Amherst, Hampshire, Mount Holyoke, and Smith Colleges.

Duties and Responsibilities: The Biostatistics Program in the Department of Biostatistics and Epidemiology seeks a tenure track faculty at the rank of Assistant Professor. Requirements include demonstrated potential to develop an extramurally funded research program in biostatistical methods and excellent teaching skills. Successful applicants will be dynamic, collaborative researchers, whose methodological work is inspired by pressing problems in public health. We are interested in candidates with experience in a broad range of methodological settings, including but not limited to big data applications.

Position Qualifications: Qualifications: Candidates for this position must meet the following minimum requirements:

- Terminal degree (e.g., PhD, ScD) in biostatistics or closely related field of study;
- Evidence of evidence of independent and collaborative research potential;
- Strong record of peer- reviewed publication given career stage;
- Excellent oral and written communication skills; and
- Demonstrated interest and ability in teaching and advising at the undergraduate or graduate level.
- In addition, preference will be given to candidates possessing excellent potential for securing federal research funding.

Salary Range: The University offers a competitive salary with an attractive benefits package.

Website: <http://umass.interviewexchange.com/jobofferdetails.jsp?JOBID=77049>

Application Information: For questions concerning the search process, please contact

Ms. Deborah Osowski, Biostatistics Search Committee

415 Arnold House, 715 North Pleasant Street

Department of Biostatistics and Epidemiology, University of Massachusetts

Amherst, MA 01003-9304

phone: (413)-545-4603 Call: (413)-545-4603; email: dosowski@schoolph.umass.edu

Application Deadline: 11/15/2016

**Postdoctoral Research Position in Environmental Biostatistics
Harvard T.H. Chan School of Public Health**

Company Information: Harvard University seeks to find, develop, promote, and retain the world's best scholars. Harvard is an Affirmative Action/Equal Opportunity Employer. Applications from women and minority candidates are strongly encouraged.

Duties and Responsibilities: The Department of Biostatistics (Harvard T.H. Chan School of Public Health) is seeking candidates with a PhD in Statistics/Biostatistics for a two-year postdoctoral position. The position will be focused on the development of statistical methods to estimate effects of exposure to environmental contaminants. Problems of particular interest are estimating effects of simultaneous exposure to a large number of environmental agents, methods for adjusting for high dimensional confounding and interacting factors, causal inference for exposure-response functions, and evaluation of interventions to limit air pollution exposure.

Position Qualifications: Doctoral degree in Statistics, Biostatistics, or a related field; familiarity in Bayesian modeling, causal inference methods, analysis of observational data, and/or methods spatial/temporal data analysis are encouraged. Excellent programming skills (e.g., in R) and excellent communication and writing skills desired.

Benefits: Information on resources for career development and work/life balance at the Harvard T. H. Chan School of Public Health can be found at:

<http://www.hsph.harvard.edu/human-resources/worklife>

<https://www.hsph.harvard.edu/faculty-affairs/annual-appointments/annual-benefits-facilities-and-services/>

<http://www.hsph.harvard.edu/faculty-affairs/postdoctoral-researchfellows/postdoc-benefits/>

Website: <https://academicpositions.harvard.edu/postings/7161>

Contact Email: biostat_postdoc@hsph.harvard.edu

Postdoctoral Research Position in Single Cell Genomics Harvard T.H. Chan School of Public Health

Company Information: Harvard University seeks to find, develop, promote, and retain the world's best scholars. Harvard is an Affirmative Action/Equal Opportunity Employer. Applications from women and minority candidates are strongly encouraged.

Duties and Responsibilities: One or two postdoctoral positions in computational biology focused on single cell genomics is available at the Guo-Cheng Yuan Lab in the Department of Biostatistics and Computational Biology at Dana-Farber Cancer Institute / Harvard T.H. Chan School of Public Health. The goal of the Yuan Lab is to develop computational approaches to analyze and integrate genomic data with the aim to elucidate systems-level gene regulatory mechanisms in development and disease. Current projects include single-cell analysis, genome-wide chromatin state characterization, inference of gene regulatory networks, and functional characterization of genetic variants. Detailed description of our research can be found at our group website: <http://bcb.dfci.harvard.edu/~gcyuan>.

The candidate(s) will develop computational methods for analyzing single-cell transcriptomic and mass cytometry data, with the goals to characterize cellular states and identify rare cell-types, to model the dynamic changes associated with cell-state changes, to investigate the regulatory mechanism at gene expression variation, and to apply this knowledge to stem cell and cancer biology. The candidate will have the opportunity to closely interact with basic biologists and clinical investigators at the Dana-Farber Cancer Institute and Boston Children's Hospital.

Position Qualifications: The successful applicant(s) should hold a doctoral degree or equivalent qualification in computational biology, (bio)statistics, computer science, or a similar field. Candidates holding a degree in biological / medical science are also welcome to apply if they have demonstrated experience in computational or statistical work.

Strong programming (in Python, R, Matlab, or C/C++) and communication skills are required. Previous experience in analysis, interpretation, and integration of genomic, transcriptomic and epigenomic data is also required. Previous knowledge in single-cell biology is highly desired but not required.

Lead author in at least one publication in major peer-reviewed scientific journals.

Benefits: Information on resources for career development and work/life balance at the Harvard T. H. Chan School of Public Health can be found at:

<http://www.hsph.harvard.edu/human-resources/worklife> and <https://www.hsph.harvard.edu/faculty-affairs/annual-appointments/annual-benefits-facilities-and-services/>

<http://www.hsph.harvard.edu/faculty-affairs/postdoctoral-researchfellows/postdoc-benefits/>

Website: <https://academicpositions.harvard.edu/postings/7160>

Application Information: Administrative questions regarding this position can be sent to Susan Luvisi at biostat_postdoc@hsph.harvard.edu.

Scientific questions regarding this position can be sent to Dr. Guo-Cheng Yuan at gcyuan@jimmy.harvard.edu.

Contact Email: biostat_postdoc@hsph.harvard.edu

**Assistant Professor – Applied Quantitative Ecology
University of Rhode Island**

1 Greenhouse Rd
Dept. of Natural Resources Science
Kingston RI 02881

Position Title: Duties and Responsibilities: This is an academic year, tenure-track position in the Department of Natural Resources Science (NRS) at the University of Rhode Island, Kingston, RI. Establish a vibrant research program supported by extramural funding that uses contemporary statistical and/or modeling tools to quantitatively solve applied problems in applied ecology and conservation biology. Develop a sustained record of publications in peer-reviewed journals. Teach an interdisciplinary general education course for undergraduates. Teach one undergraduate course in biometrics and one graduate level course in quantitative ecology (e.g., population or occupancy modeling), and other courses that will enhance both undergraduate and graduate degree programs in NRS. Provide advising and research mentorship to undergraduate and graduate students, including assisting with developing an undergraduate level track in Natural Resources and Environment Statistics as part of a new undergraduate major in Statistics. Engage in outreach and service activities and governance within the Department, College, University, and broader scholarly community. Division of major responsibilities: 40% teaching, 50% research, 10% service at initial appointment

Position Qualifications:

Required qualifications:

Ph.D. or D.Phil. in ecology, wildlife management, conservation biology, forestry or other closely related fields (biological sciences, conservation science, natural resources science, statistical ecology). (One year of post-doctoral experience at time of application. Demonstrated expertise in using contemporary statistical or mathematical methods to solve problems in applied ecology or conservation biology. Demonstrated record of scholarly achievement as shown by (a) publications related to quantitative ecology in peer-reviewed journals, and (b) presentations at scientific meetings. Demonstrated ability to teach quantitative courses at the undergraduate and/or graduate level. Demonstrated strong interpersonal and oral communication skills in English. Demonstrated written communication skills in English. Experience with working with diverse populations or underrepresented groups.

Preferred Qualifications:

Experience modeling populations, communities, or ecosystems. Demonstrated active participation in collaborative research. Success in obtaining funding through competitive grant programs (including graduate or postdoctoral fellowships and grants). Experience as the lead instructor of quantitative courses at the undergraduate and/or graduate level. Evidence mentoring undergraduate and/or graduate students. Record of scholarly achievement as shown by honors and/or awards. Expertise making research findings accessible to a broad audience through outreach, social media, and other mixed media outlets. Demonstrated commitment to participate in professional service and outreach as shown by participation in committees, organizations, or other activity.

Salary Range: Commensurate with experience

Website: <http://jobs.uri.edu:80/postings/1750>

Application Information: Please attach 5 PDF documents to your application: 1) Cover letter describing qualifications, 2) CV including information related to Required and Preferred Qualifications, 3) Statement of Research Interests and Future plans, 4) Statement of Teaching Philosophy and interests, 5) Three published (or In Press) papers in one PDF. Apply to <http://jobs.uri.edu:80/postings/1750>

Contact Email: ghenriques@uri.edu

Application Deadline: 11/15/2016

**Post Doctoral Fellowship
Ragon Institute of MGH, MIT, and Harvard**

Company Information: The Ragon Institute seeks to establish a model of scientific collaboration that links the clinical, translational and basic science experts at MGH, MIT, Harvard and the Broad Institute to tackle the greatest global health challenges related to infectious disease research.

Duties and Responsibilities:

- Under a supervision of a faculty mentor, develop statistical methodology for HIV/AIDS research and prepare first author manuscripts
- Analyze, interpret and present multivariate HIV/AIDS data using statistical methods and co-author peer reviewed papers
- Other duties as assigned

Position Qualifications:

- Applicants should have a strong quantitative background and hold a Ph.D. in statistics, biostatistics or a related quantitative field.
- Candidates should have a strong written and oral communication skills, strong programming skills, and ability to work independently and with collaborators
- Previous interdisciplinary collaboration experience is a plus

Salary Range: Competitive and commensurate with experience

Application Information: Interested applicants should email the following materials to Dr. Musie Ghebremichael:

- Curriculum Vitae
- A statement of research interest
- Publication reprints
- Contact information of three references

Contact Email: musie_ghebremichael@dfci.harvard.edu

Application Deadline: 12/31/2016

AP Readers CollegeBoard - ETS

Location: United States

Type: Part Time - Experienced

Category: Statistics Educator

Join more than 15,000 experienced high school AP teachers and college faculty who convene annually in June to score the free-response sections of the AP Exams.

We are looking for expertise in: Statistics

As an AP Reader you will:

- join a dynamic team of fellow educators
- discover and share best practices for teaching, testing, and more
- earn Continuing Education Units (CEUs) and Professional Development Hours (PDHs)
- receive a stipend. Expenses, meals, and lodging are covered.

AP Reader Eligibility Requirements

AP Readers from colleges and universities must be active faculty members and have taught at least one semester of a comparable AP course within the past three years.

AP Readers from secondary schools must currently teach the AP course in a face-to-face classroom setting and have completed three years of teaching the course. Teachers who are teaching an online/virtual AP course may apply if they have completed three years of teaching the course in a face-to-face classroom setting.

About CollegeBoard - ETS

At nonprofit ETS, we advance quality and equity in education for people worldwide by creating assessments based on rigorous research. ETS develops, administers and scores more than 50 million tests annually — including the TOEFL® and TOEIC® tests, the GRE® General and Subject Tests and The Praxis Series® assessments — in more than 180 countries, at more than 9,000 locations worldwide. In addition to assessments, we conduct educational research, analysis and policy studies and develop a variety of customized services and products for teacher certification, English language learning and elementary, secondary and postsecondary education. ETS serves individual students, their parents, educational institutions and government agencies. We do this by: Listening to educators, parents and critics Learning what students and their institutions need Leading in the development of new and innovative products and services More than 3,300 employees work at ETS's offices throughout the United States and the world. Of these, more than 2,300 of our professional staff have training and expertise in education, psychology, statistics, psychometrics, computer sciences, sociology and the humanities. Almost 1,000 have advanced degrees, and 390 hold doctorates. 1,150 employees support ETS's wholly owned subsidiary Prometric™. Today, our experts in research and assessment help individuals, educators and government agencies around the world find new ways to advance learning through customized, innovative assessment solutions.

Show less

Health Data Scientist Harvard T.H Chan School of Public Health

Company Information: Harvard University seeks to find, develop, promote, and retain the world's best scholars. Harvard is an Affirmative Action/Equal Opportunity Employer. Applications from women and minority candidates are strongly encouraged.

Duties and Responsibilities: Duties and Responsibilities:

- The Data Scientist will contribute to the effort of retrieving (via web scraping or REST APIs) and leveraging massive amounts of data (for example, Medicare, Census, EPA Air Quality System, and atmospheric transport and dispersion model outputs) to study the health impacts of air pollution regulations.
- The Data Scientist will contribute to the efforts of the team in terms of statistical software development, software dissemination, and reproducible research.
- The Data Scientist will provide high-quality implementations of quantitative models and will also write, and contribute to writing, scientific articles and research proposals. The successful candidate will help developing and maintaining R packages and datasets, and creating innovative web-based data visualizations.

Position Qualifications: Qualifications:

- Masters degree in Statistics, Biostatistics, Computer Science, Data Science, or other quantitative field.
- Strong background in applied statistics and computational methods.
- Interest in open-source software, reproducibility and data management.

Additional Qualifications:

- PhD in Statistics, Biostatistics, Computer Science, Data Science, or other quantitative field.
- Demonstrated ability to contribute to research of new statistical approaches, inference algorithms, and machine learning techniques.
- Familiarity with multiple data science tools (R, Shiny, GIS, d3, Python, SQL, ...), and ability to learn new tools as required.
- Experience in creating and maintaining R packages.
- Experience in handling very large (spatial) datasets is highly desirable.

Benefits: Information on resources for career development and work/life balance at the Harvard T. H. Chan School of Public Health can be found at:

<http://www.hsph.harvard.edu/human-resources/worklife>

<https://www.hsph.harvard.edu/faculty-affairs/annual-appointments/annual-benefits-facilities-and-services/>

<http://www.hsph.harvard.edu/faculty-affairs/postdoctoral-researchfellows/postdoc-benefits/>

Website: <https://academicpositions.harvard.edu/postings/7157>

Application Information: The position is funded for one year with strong possibility of renewal.

Please submit:

- a cover letter
- a curriculum vitae
- the name and contact information of three references
- and possibly links to code portfolios such as GitHub

Administrative questions regarding this position can be sent to Susan Luvisi at biostat_postdoc@hsph.harvard.edu.

Scientific questions regarding this position can be sent to Chirstine Choirat at cchoirat@iq.harvard.edu.

Contact Email: biostat_postdoc@hsph.harvard.edu

**Professor - Associate Professor - Assistant Professor
Boston University**

Location: Massachusetts

Categories: Applied Statistics, Operations research, Probability

BOSTON UNIVERSITY

Tenured Position – Statistics The Department of Mathematics and Statistics invites applications for a tenured Professor in Statistics. The position will begin July 1, 2017. A strong commitment and record of teaching and research is essential. This position is part of a cluster hire in Statistics, and the ideal candidate would also be interested in serving as the Director of our Program in Statistics. Please submit a cover letter briefly describing your research and teaching interests, a CV, and the names and contact information for three references to mathjobs.org, for the Full Professor Statistics Search. Questions about the position and department may be directed to Prof. Tasso Kaper (chair) tasso@bu.edu. Review of applications is ongoing and will continue until the position is filled.

Tenured Position – Statistics The Department of Mathematics and Statistics invites applications at the tenured Associate Professor level in Statistics. Ph.D. required; salary commensurate with experience. The position will begin July 1, 2017. Strong commitment and record of teaching and research is essential. Please submit a cover letter, CV, research statement, teaching statement, and four letters of recommendation, at least one of which addresses teaching, to mathjobs.org, for the Associate Professor Statistics Search. Alternatively, have all of the materials sent to ASCP Statistics Search, Department of Mathematics and Statistics, Boston University, 111 Cummington Mall, Boston, MA 02215. Review of applications is ongoing and will continue until the position is filled.

Tenure-Track - Probability and Stochastic Processes The Department of Mathematics and Statistics at Boston University invites applications for a tenure-track Assistant Professor position in Probability and Stochastic Processes to begin July 1, 2017. A Ph.D. in hand is required at time of the appointment. A strong commitment to research and teaching at the undergraduate and graduate levels is essential. Please submit all materials to mathjobs.org. Alternatively send a cover letter, curriculum vitae, research statement, teaching statement, and at least four letters of recommendation, one of which addresses teaching, to Probability and Stochastic Processes Search, Department of Mathematics and Statistics, Boston University, 111 Cummington Mall, Boston, MA 02215. The application deadline is December 1, 2016.

We are an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability status, protected veteran status, or any other characteristic protected by law. We are a VEVRAA Federal Contractor.

About Boston University

About Boston University Boston University is one of the leading private research and teaching institutions in the world today, with two primary campuses in the heart of Boston and programs around the world.

**Research Associate Position in Biostatistics and Biomedical Informatics
Harvard T.H. Chan School of Public Health**

Company Information: Harvard University seeks to find, develop, promote, and retain the world's best scholars. Harvard is an Affirmative Action/Equal Opportunity Employer. Applications from women and minority candidates are strongly encouraged:

Duties and Responsibilities: A Research Associate position in biostatistics and biomedical informatics is available at Harvard T.H. Chan School of Public Health. The positions involve developing and applying statistical and computational methods for analysis of electronic medical records data including narrative data extracted via natural language processing, codified phenotype data as well as large scale genomic measurements. We seek an individual with strong statistical and computing backgrounds and who has expertise in statistical and machine learning methods for big data. The work will involve both methodological research with department faculty and collaboration with subject matter researchers.

Position Qualifications: Ph.D. in a quantitative field, e.g., statistics or biostatistics, computer sciences, strong quantitative research background, statistical and programming proficiency, as well as good written and oral communication skills.

Benefits: Information on resources for career development and work/life balance at the Harvard T. H. Chan School of Public Health can be found at:

<http://www.hsph.harvard.edu/human-resources/worklife>

<https://www.hsph.harvard.edu/faculty-affairs/annual-appointments/annual-benefits-facilities-and-services/>

Website: <https://academicpositions.harvard.edu/postings/7156>

Application Information: Administrative questions regarding this position can be sent to Susan Luvisi at biostat_postdoc@hsph.harvard.edu.

Scientific questions regarding this position can be sent to Tianxi Cai at tcai@hsph.harvard.edu.

Contact Email: biostat_postdoc@hsph.harvard.edu

**Chair, Department of Biostatistics and Computational Biology
Dana Farber Cancer Institute
Boston, Massachusetts**

Category: Biometrics/biostatistics
Chair, Department of Biostatistics and Computational Biology,
Dana-Farber Cancer Institute
Professor of Biostatistics,
Harvard T.H. Chan School of Public Health

The Dana-Farber Cancer Institute and the Harvard T.H. Chan School of Public Health are seeking a distinguished scientist to serve as chair of the Department of Biostatistics and Computational Biology at the Dana-Farber Cancer Institute. The successful candidate will also be appointed as a tenured professor in the Department of Biostatistics at the Harvard T.H. Chan School of Public Health and will provide leadership in the cancer training and research program in the department.

The Department of Biostatistics and Computational Biology at the Dana-Farber Cancer Institute is an active department of 21 faculty, 12 doctoral research scientists, 21 masters-level statisticians, and 12 bioinformatics analysts/engineers conducting wide-ranging methodological research in biostatistics and computational biology and collaborative research in cancer. The department is home to the statistical centers for the International Breast Cancer Study Group and the ECOG-ACRIN Cooperative Group, coordinates the Biostatistics Core Facility for the Dana-Farber/Harvard Cancer Center, and is the principal site of the Centers for Cancer Computational Biology, Functional Cancer Epigenetics, Center for Cancer Evolution and cBio Center. The department is closely affiliated with the Department of Biostatistics at the Harvard T.H. Chan School of Public Health, where many of the departments' faculty hold primary appointments and participate in the graduate training program.

The successful candidate will be a visionary leader, internationally recognized as a pre-eminent scientist with an established record of scholarship, ideally in the area of cancer research. Candidates should hold a doctoral degree in a relevant field.

Please submit a letter of application, including a statement of current and future research interests, a curriculum vitae, and sample publications, online at <http://academicpositions.harvard.edu/postings/7145>. It would be helpful if you would also provide the names of senior scholars likely to be most knowledgeable about your field and about your work in particular. Please contact facultyaffairs@hsph.harvard.edu with any questions.

Dana-Farber Cancer Institute and Harvard University seek to find, develop, promote, and retain the world's best scholars and are Affirmative Action/Equal Opportunity Employers. Applications from women and minority candidates are strongly encouraged.

The Department of Biostatistics and Computational Biology at Dana-Farber Cancer Institute provides a flexible working environment and provides a balance between work and life. Information on resources for career development and work/life balance at the Harvard Chan School can be found at: <https://hlc.harvard.edu/hlc-work-life-programs-at-a-glance/>.

**Assistant/Associate Professor of Statistics/Biostatistics (Tenure-Track)
Harvard Medical School, Department of Health Care Policy**

Company Information: The Department of Health Care Policy at Harvard Medical School is one of only a few academic departments of health policy nationwide located in a medical school. As such, HCP has the rare ability not only to foster the careers of physicians and social scientists (including economists, sociologists, and statisticians) but also to develop close research ties with multiple clinicians at the Harvard-affiliated teaching hospitals. Since our founding in 1988, we have moved steadily to develop rich research and teaching programs. Our wide-ranging research includes broad topics on financing and delivery of health care, quality of care, studies on special and disadvantaged populations (including those with mental disorders), and access to care. We have recently begun large-scale efforts related to benefit design and the care of the elderly. In many cases, these applied studies are augmented by fundamental contributions in statistics and biostatistics. Further information is available under the biographies of our award-winning faculty and in the publications section. Our teaching program covers a broad spectrum of the Harvard community. HCP faculty teach undergraduates at Harvard College, students at Harvard Medical School, doctoral students in the university-wide PhD Program in Health Policy, master's students at the Harvard School of Public Health, and, as of 2006, students in the combined MD/MBA program with Harvard Business School. The department hosts several graduate students and postdoctoral fellows, as well as visiting scholars. We invite you to learn more about the depth and breadth of this unique department--a place where we not only carry out research on today's critical health care policy issues but also guide those who will help shape tomorrow's policy decisions. The issues we address affect all Americans, regardless of age, ethnicity, race, or income. Please explore our website and contact us if you would like more information.

We are an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability status, protected veteran status, or any other characteristic protected by law.

Duties and Responsibilities: The Department of Health Care Policy is seeking a tenure-track assistant or associate professor with PhD in Statistics/Biostatistics. Teaching opportunities include tutorials and individual graduate student advising.

Position Qualifications: PhD in Statistics/Biostatistics whose research portfolio will combine development of innovative statistical methods and their application to large observational datasets, motivated by health policy and public health questions of national importance.

Website: <http://www.hcp.med.harvard.edu>

Application Information: Interested individuals should submit a cover letter describing their research interests, a current CV, three recent peer-reviewed articles, and three letters of recommendation.

Applicants with postdoctoral training are preferred.

**Assistant/Associate Professor of Statistics/Biostatistics (Tenure-Track)
Harvard Medical School, Department of Health Care**

Company Information: The Department of Health Care Policy (HCP) at Harvard Medical School is a multidisciplinary research department with faculty in medicine, health economics, and statistics.

Duties and Responsibilities: The Department of Health Care Policy at Harvard Medical School is seeking a tenure-track assistant or associate professor. Teaching opportunities include tutorials and individual graduate student advising.

Position Qualifications: PhD in Statistics/Biostatistics whose research portfolio will combine development of innovative statistical methods and their application to large observational datasets, motivated by health policy and public health questions of national importance.

Website: <https://academicpositions.harvard.edu/postings/7004>

Application Information: Interested individuals should submit a cover letter describing their research interests, a current CV, three recent peer-reviewed articles, and three letters of recommendation.

Applicants with postdoctoral training are preferred.

Please apply using the HMS ARIeS System:

<https://academicpositions.harvard.edu/postings/7004>

Contact Email: haak@hcp.med.harvard.edu

Application Deadline: 12/01/2016

Open Rank, Tenured/Tenure-Track Faculty in Biostatistics Brown University Department of Biostatistics

Location: Providence, Rhode Island

Categories: Applied Statistics, Biometrics/biostatistics, Statistical theory/probability

Required Education: Doctorate

The Department of Biostatistics at Brown University's School of Public Health is seeking exceptional candidates doing research in biostatistics and data science as well as in domain research in the health sciences. Candidates for Associate or Full Professor should have a nationally and internationally recognized record of innovative methods research in biostatistics and data science, significant experience and track record in interdisciplinary research, and demonstrated leadership potential. Candidates for Assistant Professor should provide evidence of outstanding research potential, growing publications record and experience in interdisciplinary research. All candidates must show evidence of excellent oral and written communication skills and possess strong ability and interest in teaching and mentoring of students. The Department is committed to pursuing the goals of the Brown initiative for diversity and inclusion.

The new faculty member will join a highly interdisciplinary Biostatistics faculty of thirteen in the newly accredited Brown University School of Public Health. Building on its methodologic and domain research strength in the analysis of large health care databases, causal inference, diagnostic imaging evaluation and radiomics, computational biology and bioinformatics, Bayesian methodology, research synthesis, and neuroscience, the Department is now emphasizing growth in research and educational activity in health data science. Biostatistics is a core member of the University's Data Science Initiative.

The Department teaches a growing number of students at all levels, undergraduate, Master's, and PhD and has recently added a health data science track to its Master's program. The Brown School of Public Health and the broader University offer opportunities for substantial collaboration with world class researchers in the constituent disciplines of data science as well as in a broad range of domains, such as health care and policy research, neuroscience, computational biology, epidemiology, and behavioral sciences.

This is a search for an Assistant, Associate, or Full Professor of Biostatistics in the tenure track. Candidates for Full or Associate Professor (tenured) should have a nationally and internationally recognized record of innovative methods research in biostatistics and data science, significant experience and track record in interdisciplinary research, demonstrated leadership potential and a record of success in obtaining research funding. Candidates for Assistant Professor should provide evidence of outstanding research potential, growing publications record and experience in interdisciplinary research. All candidates must show evidence of excellent oral and written communication skills and possess strong ability and interest in teaching and mentoring of students in the growing educational programs in Biostatistics.

Candidates are asked to indicate in your letter of application whether you are applying for the Assistant, Associate or Full Professor position. Candidates for Assistant Professor are asked to provide at least three (3) letters of recommendation, to be submitted through Interfolio.

About Brown University Department of Biostatistics

The Department of Biostatistics is part of Brown University's School of Public Health and is co-located with the Center for Statistical Sciences. The Department offers Master's and doctoral degrees in Biostatistics and has a highly interdisciplinary faculty of thirteen core members. Current Biostatistics faculty research interests include missing data and causal inference, diagnostic test evaluation, bioinformatics, statistical methods for HIV epidemiology, Bayesian inference, the analysis of spatial data, statistical methods for neuroscience, and health services and outcomes research in addition to meta-analysis and multi-level modeling. The Department of Biostatistics is part of a major expansion of research and educational programs within the newly accredited School of Public Health specifically and the University at large. The academic departments and research centers at Brown offer the opportunity for collaboration with world-class investigators in health services research, behavioral sciences, epidemiology, computational biology, neuroscience, environmental science, evidence-based medicine and the new data science initiative, as well as several other fields.

**Assistant Professor Brain and Cognitive Sciences
Massachusetts Institute of Technology**

Location: Cambridge, Massachusetts

Category: Biometrics/biostatistics

The Department of Brain and Cognitive Sciences (BCS) (<http://bcs.mit.edu>) at MIT is looking to hire multiple tenure-track faculty at the assistant professor level. Affiliations with the Picower Institute for Learning and Memory and the McGovern Institute for Brain Research are possible. We are most excited about candidates who work in one or more of the following three areas:

Computational approaches to neuroscience and cognition. Possible areas of focus include but are not limited to: statistical analysis of neural data and neural signal processing; computational modeling of neural circuits, of neural population representations and transformations; and/or of human cognitive processes. Candidates with the ability to build bridges across empirical domains are especially attractive. An affiliation with Electrical Engineering and Computer Science (EECS), the Computer Science and Artificial Intelligence Laboratory (CSAIL), the newly formed Statistics and Data Science Center, and Society (IDSS), or other allied departments is possible. The Department aims to make multiple hires in this area.

Systems neuroscience in non-human animals. The ideal candidate will be driven by the goal of reverse-engineering neural circuits underlying complex behaviors, and will employ novel technologies and computational approaches to understand the coding, dynamics, and/or anatomical underpinnings of these circuits. We will consider applicants who are working on a broad range of model organisms.

Cognitive neuroscience in humans and/or non-human primates. The ideal candidate would be conducting research that informs our understanding of cognition while bridging levels of analysis and using multiple methods, e.g. ECoG, fMRI, electrophysiology, MEG, computational modeling, genetics and reverse engineering approaches.

Successful applicants are expected to develop and lead independent, internationally competitive research programs and to share in our commitment to excellence in undergraduate and graduate education by teaching courses and mentoring graduate and undergraduate students. PhD must be completed by start day of employment and some postdoctoral training is preferred.

Please submit application materials – cover letter, CV, statement of research and teaching interests and representative reprints online at <https://academicjobsonline.org/ajo/jobs/8024>. Please state research area in cover letter. To help direct the application, applicants should indicate which of the areas listed above is their main research area by selecting from the drop down list included in the application. In addition, please arrange to have three letters of recommendation submitted online. All application materials are due by midnight (EST) on October 31, 2016.

MIT is an equal employment opportunity employer all qualified applicants will receive consideration for employment and will not be discriminated against on the basis of race, color, religion, sex, sexual orientation, gender identity, national origin, veteran status, or disability.

**Department of Mathematics, Assistant Professor, Statistics and Probability
Bridgewater State University**

Location: Bridgewater, Massachusetts

Categories: Applied Statistics, Probability, Statistical theory/probability

Required Education: Doctorate

Bridgewater State University, located in the geographic heart of Southeastern Massachusetts in the town of Bridgewater, is the teaching university that has served the region since 1840. The 270-acre campus is well within an hour's drive of Boston, Providence, and Cape Cod. Today, the institution provides more than 100 undergraduate and graduate programs through its five colleges – Graduate Studies, Business, Education and Allied Studies, Humanities and Social Science, and Science and Mathematics – to approximately 12,000 students.

Bridgewater State University seeks to educate its students to think critically, communicate effectively, and act responsibly within the context of personal ethics. Therefore, the university actively recruits faculty and staff who are, first and foremost, committed to the development of the individual student. The Mathematics Department's mission is to introduce students to mathematics as an important area of human thought, to help students appreciate the beauty and scope of mathematics, to give students the mathematical knowledge necessary to teach mathematics at the secondary or elementary level, to prepare students for careers in actuarial science, business, government, and industry, to serve the needs of students in fields which rely on mathematics, and to prepare students for graduate studies in mathematics and statistics. The department offers a Bachelor of Science degree with optional concentrations in pure mathematics, and statistics, as well as minors in mathematics, statistics, and actuarial science. We also offer graduate programs leading to a Masters of Arts in Teach Mathematics (MAT). The Mathematics Department is located in the new \$100M Dana Mohler-Faria Center for Science and Mathematics, and in addition to serving over 350 majors, we provide a large number of courses for the general student population.

Essential Duties:

The Department of Mathematics at Bridgewater State University is accepting applications for a tenure-track faculty position at the assistant professor level. The department is seeking a statistician or probability theorist who is passionate about teaching and is dedicated to working with undergraduate students. BSU faculty members teach 12 contact hours each semester. Applicants should be prepared to teach a range of courses, from non-majors to upper-level probability and statistics courses for our new statistics concentration. Additionally, the successful candidate will also develop a program of continuing scholarship in which the inclusion of undergraduates is encouraged. Faculty members also advise students and participate in committee work and departmental curriculum development.

Bridgewater State University (BSU) is an affirmative action/equal opportunity employer which actively seeks to increase the diversity of its workforce. We are dedicated to providing educational, working and living environments that value the diverse backgrounds of all people.

The successful candidate must possess a Ph.D. by September 1, 2017. The applicant must provide evidence of teaching experience, scholarly activity, and a commitment to higher education.

A Ph.D. in statistics or mathematics and teaching experience is required.

Applicants should be strongly committed to excellence in teaching, advising, service, and research, and to working in a multicultural environment that fosters diversity. They should also have the ability to communicate effectively in speaking and writing, use technology effectively in teaching and learning, and work collaboratively.

NOTES: Employer will assist with relocation costs.

Additional Salary Information: Salary is commensurate with qualification and experience.

About Bridgewater State University

Bridgewater State University, located in the geographic heart of Southeastern Massachusetts in the Town of Bridgewater, is the teaching university that has served the region since 1840. The 270-acre campus is well within an hour's drive from Boston, Providence and Cape Cod. Founded by Horace Mann, Bridgewater is one of America's first teacher preparation institutions. Today, the institution provides a broad range of graduate and undergraduate degree programs through its five colleges – Graduate Studies, Business, Education and Allied Studies, Humanities and Social Sciences, and Science and Mathematics – to approximately 12,000 students. Three hundred-plus fulltime faculty members lead more than 100 undergraduate and graduate programs. Technology is an integral part of academic programs and campus life at Bridgewater, which offers unrivaled network resources to meet the demands of an increasingly mobile and connected college community. This commitment has earned national recognition for being among the top colleges and universities in the country for the use of technology and wireless connectivity. Bridgewater is the largest state university in the Massachusetts Public Higher Education system and the fourth largest campus overall in the system, which comprises 15 community colleges, nine state universities and a university with five campuses. Bridgewater's campus features 38 academic, residential and administrative buildings. The institution has completed construction of the Science and Mathematics Center. At 98.7 million, the project is single largest construction project undertaken by a state university in Massachusetts and ranks among the largest construction projects, public or private in the commonwealth. Bridgewater State University seeks to educate its students to think critically, communicate effectively and act responsibly within a context of personal and professional ethics. Therefore, the university actively recruits faculty and staff who are, first and foremost, committed to the development of the individual student.

**Pure and Applied Mathematics and Statistics at level of Instructor
Massachusetts Institute of Technology**

Categories: Applied Statistics, Biometrics/biostatistics, Mathematical statistics

Required Education: Doctorate

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Cambridge, MA

The Mathematics Department at MIT is seeking to fill positions in Pure and Applied Mathematics, and Statistics at the level of Instructor beginning July 2017 (for the 2017-2018 academic year).

Appointments are based primarily on exceptional research qualifications. Appointees will be expected to fulfill teaching duties and pursue their own research program. PhD in Mathematics or related field required by employment start date.

For more information and to apply, please visit www.mathjobs.org. To receive full consideration, submit applications by December 1, 2016. MIT is an Equal Opportunity, Affirmative Action Employer.

PhD in Mathematics or related field required by employment start date

About Massachusetts Institute of Technology

The Department of Mathematics at MIT aims to hire the very best faculty in research and teaching, with special attention to the recruitment of top women and underrepresented minority candidates

**Pure and Applied Mathematics and Statistics, Assistant Professor or higher
Massachusetts Institute of Technology**

Categories: Applied Statistics, Biometrics/biostatistics, Mathematical statistics

Required Education: Doctorate

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Cambridge, MA

The Mathematics Department at MIT is seeking to fill positions in Pure and Applied Mathematics, and Statistics at the level of Assistant Professor or higher beginning July 2017 (for the 2017-2018 academic year, or as soon thereafter as possible). Appointments are based primarily on exceptional research qualifications. Appointees will be required to fulfill teaching duties and pursue their own research program. PhD in Mathematics or related field required by employment start date.

For more information and to apply, please visit www.mathjobs.org. To receive full consideration, submit applications by December 1, 2016. MIT is an Equal Opportunity, Affirmative Action Employer.

PhD in Mathematics or related field

About Massachusetts Institute of Technology

The Department of Mathematics at MIT aims to hire the very best faculty in research and teaching, with special attention to the recruitment of top women and underrepresented minority candidates

Tenure-Track Assistant Professor of Mathematics Framingham State University

Location: Framingham, Massachusetts

Category: Mathematics

About Framingham State University:

Framingham State University is a vibrant comprehensive liberal arts institution located just 20 miles west of Boston.

Framingham State University is committed to Inclusive Excellence through collaborative and sustainable partnerships with faculty, staff, students and the greater community. At FSU, we encourage a supportive, diverse and collaborative environment in which we learn from each other through informed and open communication, institutional practices and community engagement. FSU provides a culturally relevant education that includes a beautiful campus with 53 undergraduate and graduate programs, a highly personalized teaching environment, and unparalleled commitment to excellence in diversity and inclusion.

Framingham State University is honored to be recognized for the second year as a recipient of the INSIGHT into Diversity prestigious 2015 Higher Education Excellence in Diversity (HEED) award. The HEED award is the only national recognition honoring colleges and universities that exhibit outstanding efforts and success in the area of diversity and inclusion throughout their campuses. Visit <http://www.framingham.edu/careers> to learn more about employment opportunities at Framingham State University.

Job Description:

GENERAL STATEMENT OF DUTIES: The Mathematics Department invites applications for a tenure-track position at the rank of Assistant Professor, beginning Fall 2017. Responsibilities include a teaching load of three, four credit courses per semester, including general education courses, student advising, and service to the University community. A strong commitment to teaching excellence, student/ faculty collaboration, and a commitment to continued scholarly and professional growth are expected.

Application Instructions:

Candidates must apply online by submitting a cover letter, curriculum vitae, AMS cover sheet, a statement of teaching philosophy, and a research statement. Candidates who are selected for interviews will be required to provide original transcripts at the time of interview.

Candidates must also submit the names and contact information for three references who will be asked to provide letters of recommendation online.

For full consideration, application materials must be received by Dec. 1, 2016.

Framingham State University only accepts application materials through our online application system. We are unable to accept application materials through mail, email, fax, or hand delivery. If you experience technical issues with the online application process, please submit a helpdesk ticket. Framingham State University understands that persons with specific disabilities may need assistance with the job application process and/or with the interview process. For confidential assistance, please contact the Human Resources Office at 508-626-4530 or humanresources@framingham.edu.

MINIMUM QUALIFICATIONS:

Ph.D. or Ed.D. in mathematics, mathematics education, or closely related field must be completed or have an expected completion date of September 1, 2017.

PREFERRED QUALIFICATIONS:

Background in statistics is preferred, but all areas of mathematics will be considered.

**Professor, Assistant Professor of Statistics
Harvard University Department of Statistics**

Categories: Applied Statistics, Mathematical statistics, Probability

Required Education: Doctorate

The Department of Statistics at Harvard University invites applications for a tenure-track position for the 2017-18 academic year. We seek exceptionally strong candidates at all levels and in any field of statistics and probability, as well as in any interdisciplinary area where innovative and principled use of statistics and/or probability is of vital importance.

We especially encourage applications from, and nominations of, women and underrepresented minority candidates.

Harvard University is an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identify, national origin, disability status, protected veteran status, or any other characteristic protected by law. We especially encourage applications from, and nominations of, women and underrepresented minority candidates. Harvard University is an Affirmative Action/Equal Opportunity Employer.

We seek candidates with strong doctoral records and a strong commitment to teaching.

Completion of the doctorate or an equivalent terminal degree, in statistics or a related discipline, will be required by the start date of the appointment.

Please submit the following materials to <https://academicpositions.harvard.edu/postings/7190>:

1. Cover letter of application
2. CV
3. Evidence of teaching excellence (e.g., course evaluations, if available)
4. Statements of teaching and research interests
5. Representative publications.
6. Names and contact information of 3 to 5 references, who will be asked by a system-generated email to upload a letter of recommendation once the candidate's application has been submitted. 3 letters of recommendation are required, and the application is considered complete only when at least 3 letters have been received.

Submission of an application by December 16, 2016, will ensure consideration during the current academic year.

Assistant Professor
University of Massachusetts-Amherst
Department of Mathematics and Statistics

UMass Amherst, the flagship campus of the University of Massachusetts system, sits on nearly 1,450-acres in the scenic Pioneer Valley of Western Massachusetts, 90 miles from Boston and 175 miles from New York City. The campus provides a rich cultural environment in a rural setting close to major urban centers. The scenic Pioneer Valley of Western Massachusetts, is home to five colleges (Amherst College, Hampshire College, Mount Holyoke College, Smith College and the University of Massachusetts). More information about the Department may be found at <https://www.math.umass.edu>. The university is committed to active recruitment of a diverse faculty and student body. The University of Massachusetts Amherst is an Affirmative Action/Equal Opportunity Employer of women, minorities, protected veterans, and individuals with disabilities and encourages applications from these and other protected group members. Because broad diversity is essential to an inclusive climate and critical to the University's goals of achieving excellence in all areas, we will holistically assess the many qualifications of each applicant and favorably consider an individual's record working with students and colleagues with broadly diverse perspectives, experiences, and backgrounds in educational, research or other work activities. We will also favorably consider experience overcoming or helping others overcome barriers to an academic degree and career.

Duties and Responsibilities: The Department of Mathematics and Statistics at the University of Massachusetts, Amherst, invites applications for a full-time tenure track position in Predictive Modeling and Data Science at the Assistant Professor level to begin in the Fall semester of 2016. Candidates whose research interests complement the strengths of the Department's faculty in Applied and Computational Mathematics, Statistics, and Data Science are particularly encouraged to apply. Areas of interest include, but are not restricted to: Bayesian methods, computational probability, data assimilation methods, high-performance computing for complex systems, information theory, inverse problems, machine/statistical learning, Monte Carlo methods, queueing systems and networks, stochastic algorithms and optimization, uncertainty quantification.

Position Qualifications: Applicants must present strong evidence of outstanding research accomplishments and promise in both research and teaching. Applicants are required to have a Ph.D. in Mathematics, Statistics or a related field by the time of appointment.

Application Information: Review of applications will begin on November 14, 2016 and continue until a suitable candidate pool has been identified. To apply, please submit the following required documents electronically through <http://www.mathjobs.org/jobs>. Please submit: a cover letter, an AMS Standard Cover Sheet, a curriculum vitae, a publication list, a description of research, statement about teaching experience and interests. The applicant must also have at least four letters of recommendation submitted, of which one must address the applicant's effectiveness as a teacher.

Questions about the position should be directed to the chair of the Search Committee, Professor Markos Katsoulakis, markos@math.umass.edu. For additional information about the application process contact the Head's Assistant via the email address deptassist@math.umass.edu.

Tenure-track Assistant Professor of Statistics University of Maine

Company Information: Located on the northern border of beautiful Downeast Maine, the University of Maine, Orono, is the flagship campus of the University of Maine System and is the principal graduate institution in the state. It is the state's land grant and sea grant university, enrolling over 11,000 students. The Department offers BA and MA degrees in mathematics, and minors in mathematics and statistics. Further information about the Department and our activities can be found at www.math.umaine.edu. Numerous cultural activities, excellent public schools in neighborhoods where children can walk to school, high quality medical care, little traffic, and a reasonable cost of living make the greater Bangor area a wonderful place to live. The University of Maine is located just 60 miles from the beautiful Bar Harbor area and Acadia National Park and two hours from Portland, offering access to a wealth of outdoor activities and a thriving restaurant scene.

Duties and Responsibilities: Responsibilities include undergraduate and graduate teaching (normally totalling two classes per semester), advising of students, directing undergraduate projects and graduate theses, maintaining an active program of research and other scholarly activity, and engaging in university and professional service.

Position Qualifications: A Ph.D. in Statistics, Biostatistics or Mathematics with a concentration in Statistics (or an equivalent degree) is required by date of hire. Demonstrated effective teaching, strong potential for obtaining external research funding and excellent written and oral communication skills are also required.

Application Information:

Appropriate background checks are required. All University of Maine System employees are required to comply with applicable policies and procedures, as well as to complete applicable workplace related screenings, and required employee trainings, such as Information Security, Safety Training, Workplace Violence, and Sexual Harassment.

To apply, submit a cover letter (which should describe your background and how you would contribute to the teaching and research missions of the department), research and teaching statements, a curriculum vitae (which fully describes your qualifications and experiences with specific reference to the required and preferred qualifications) and at least three letters of reference, at least one of which should address your teaching. These materials must be submitted through www.mathjobs.org, and in addition the cover letter, research and teaching statements and curriculum vitae must also be submitted via HireTouch at the webpage <http://umaine.hiretouch.com> or the direct link

<https://umaine.hiretouch.com/job-details?jobID=36626&job=assistant-professor-of-statistics>

You will need to create a profile and application before uploading these materials. Incomplete applications cannot be considered.

General correspondence about this position should be sent to chair@math.umaine.edu. Screening of applications will begin November 7, 2016 and will continue until the positions are filled.

As an NSF ADVANCE institution, UMaine is committed to diversity in our workforce and to dual-career couples.

The University of Maine is an Equal Employment Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, sexual orientation, age, disability, protected veteran status, or any other characteristic protected by law.

Biostatistician 2 or 3
Harvard T.H. Chan School of Public Health

Department of Epidemiology
677 Huntington Ave.
Boston, MA 02115

Duties and Responsibilities: One or more Biostatistician positions are available in the Departments of Epidemiology and Biostatistics at Harvard T.H. Chan School of Public Health. Responsibilities for these positions include statistical analysis of epidemiological cohort and nested case-control studies, power and sample size calculations for new projects, and statistical programming of advanced methods.

Position Qualifications: Qualifications include a Masters in biostatistics, statistics, or epidemiology, or training in another quantitative health-related field. Strong programming skills in SAS, including in-depth knowledge of the macro language and graphics, are required. At least two years of relevant full-time work experience, with SAS as the primary software platform, is required. Excellent written and oral communication skills are a must. Prior course work in epidemiology and experience with epidemiologic data is desired. Excellent organizational skills also needed.

Application Information: Scientific questions regarding this position can be sent to Dr. Molin Wang at stmow@channing.harvard.edu. Applications will be considered as they arrive. To apply, please send your CV, a letter of interest specifically describing your qualifications in relation to those described above, and names and contact information of three references. Application materials should be sent by email to sroberts@hsph.harvard.edu, or mail to: Biostatistician Search, c/o Suzy Roberts, Department of Epidemiology, Harvard T.H. Chan School of Public Health, 655 Huntington Avenue, Kresge Building, 8th Floor, Boston MA 02115.

Applications from minority and female candidates are especially encouraged. Harvard University is an AA/EOE.

**Research Scientist/Research Associate
Harvard T.H. Chan School of Public Health**

Department of Epidemiology
677 Huntington Avenue
Boston, MA 02115

Duties and Responsibilities: One or more Research Scientist/Research Associate positions are available in the Departments of Epidemiology and Biostatistics at Harvard T.H. Chan School of Public Health. Responsibilities for these positions include statistical analysis of epidemiological cohort and nested case-control studies, power and sample size calculations for new projects, statistical programming of advanced methods, and collaborating on the development of statistical and epidemiological methods, if there is interest. Projects include substantive research in the fields of chronic disease epidemiology, implementation science, and HIV/AIDs, and methodologic research in survival data analysis, generalized linear models, causal inference and study design.

Position Qualifications: Qualifications include a PhD in biostatistics, statistics, or epidemiology, or training in another quantitative health-related field. Strong programming skills in SAS, including in-depth knowledge of the macro language and graphics, are required. Knowledge of and in-depth experience in a higher-level programming language, such as C or Fortran, is desired. At least two years of relevant full-time work experience, with SAS as the primary software platform, is required for Research Associate positions, and at least 5 years of relevant full-time work experience, with SAS as the primary software platform, is required for the Research Scientist position. Excellent written and oral communication skills and mastery of Microsoft Word are a must. Prior course work in epidemiology and experience with epidemiologic data is desired. Excellent organizational skills also needed.

Application Information: Scientific questions regarding this position can be sent to Dr. Molin Wang at stmow@channing.harvard.edu. Applications will be considered as they arrive. To apply, please send CV, a letter of interest specifically describing your qualifications in relation to those described above, and names and contact information of three references. Application materials should be sent by email to sroberts@hsph.harvard.edu, or mail to: Research Scientist/Research Associate Search (please indicate which position you are applying to), c/o Suzy Roberts, Department of Epidemiology, Harvard T.H. Chan School of Public Health, 655 Huntington Avenue, Kresge Building, 8th Floor, Boston MA 02115. Applications from minority and female candidates are especially encouraged. Harvard University is an AA/EOE.

**Assistant Professor of Biostatistics, Research Scholar Track
Brown University Department of Biostatistics**

Location: Providence, Rhode Island

Category: Biometrics/biostatistics

Required Education: Doctorate

The Department of Biostatistics at Brown University's School of Public Health is seeking outstanding candidates who will conduct research on development and application of statistical methods with emphasis on HIV research. Focus areas include causal inference, application of machine learning for prediction and decision analysis, and methodology for electronic health records data. The candidate will play a prominent role in ongoing NIH-funded research concerned with statistical methods for large-scale observational data from an HIV care program in Kenya, will engage in collaborative projects related to HIV, and will be a core faculty member in Brown's Alcohol Research Center for HIV (ARCH) and the Center for AIDS Research (CFAR).

The new faculty member will join the Department of Biostatistics at Brown and will be a member of the Center for Statistical Sciences. The successful candidate is expected to develop and lead an active program of research on statistical methods and to collaborate closely with researchers in ARCH and CFAR. The candidate will also have the opportunity to contribute to Departmental training activities, such as advising graduate students.

Brown University has undergone significant expansion of its faculty, graduate programs, and research centers in the School of Public Health, and has recently launched a campus-wide Data Science Initiative. This position will provide ample opportunity for engaging in high-impact research and collaborating with national and international leaders in both biostatistics and HIV.

PhD in statistics, biostatistics or related field. Demonstrated potential or established track record of high-quality scholarship related to development and application of innovative statistical methods, particularly in the area of HIV research. Focus areas to include causal inference, application of machine learning for prediction and decision analysis, and methodology for electronic health record data. Ability to work effectively within a multidisciplinary environment; must have outstanding written and oral communication skills. This position will play a prominent role in ongoing HIV-funded research. Candidates should demonstrate a willingness to contribute to overall training activities in the Department of Biostatistics, including advising of graduate students.

About Brown University Department of Biostatistics

The Department of Biostatistics is part of Brown University's School of Public Health and is co-located with the Center for Statistical Sciences. The Department offers Master's and doctoral degrees in Biostatistics and has a highly interdisciplinary faculty of thirteen core members. Current Biostatistics faculty research interests include missing data and causal inference, diagnostic test evaluation, bioinformatics, statistical methods for HIV epidemiology, Bayesian inference, the analysis of spatial data, statistical methods for neuroscience, and health services and outcomes research in addition to meta-analysis and multi-level modeling. The Department of Biostatistics is part of a major expansion of research and educational programs within the newly accredited School of Public Health specifically and the University at large. The academic departments and research centers at Brown offer the opportunity for collaboration with world-class investigators in health services research, behavioral sciences, epidemiology, computational biology, neuroscience, environmental science, evidence-based medicine and the new data science initiative, as well as several other fields.

BCASA REGION STATISTICS SEMINARS

Below is a list of the regional statistics (& mathematics) and biostatistics departments that often offer statistics seminars, along with URLs for each department and its seminars. If your institution would like to appear on this list, please contact John McKenzie (mckenzie@babson.edu).

Boston University College of Arts & Sciences
Department of Mathematics & Statistics
<http://www.bu.edu/stat/>
<http://www.bu.edu/stat/seminar/>

Boston University School of Public Health
Department of Biostatistics
<https://sph.bu.edu/Biostatistics/department-of-biostatistics/menu-id-617603.html>
<https://sph.bu.edu/Biostatistics/seminars/menu-id-617654.html>

Brown University
Division of Applied Mathematics
<http://www.dam.brown.edu/>
http://www.dam.brown.edu/dam_seminars.shtml

Brown University School of Public Health
Department of Biostatistics
<http://www.stat.brown.edu/>

Harvard University
Department of Statistics
<http://statistics.fas.harvard.edu/>
<http://statistics.fas.harvard.edu/calendar>

Harvard University T. H. Chan School of Public Health
Department of Biostatistics
<http://www.hsph.harvard.edu/biostatistics/>
<http://www.hsph.harvard.edu/biostatistics/seminars-events/>

Massachusetts Institute of Technology
Institute of Data, Systems, and Science
<http://idss.mit.edu/index.php/event/stochastics-and-statistics-seminar-series/>

University of Maine
Department of Mathematics & Statistics
<http://umaine.edu/mathematics/>
<http://umaine.edu/mathematics/colloquium-schedule/>

University of Massachusetts Amherst School of Public Health and Health Sciences
Department of Mathematics and Statistics
<https://www.math.umass.edu/>
<https://www.math.umass.edu/~gile/Seminar/>

University of Massachusetts Amherst School of Public Health and Health Sciences
Department of Biostatistics
<http://www.umass.edu/sphhs/biostatistics>

University of New Hampshire
Department of Mathematics & Statistics
<http://www.math.unh.edu/>
<http://www.math.unh.edu/seminars>

University of Rhode Island
Department of Computer Science and Statistics
<http://www.cs.uri.edu/>

University of Vermont College of Engineering and Mathematical Sciences
Department of Mathematics & Statistics
<http://www.uvm.edu/~cems/mathstat/>

Worcester Polytechnic Institute
Department of Mathematical Sciences
<http://www.wpi.edu/academics/math/>
<http://www.wpi.edu/academics/math/news.html>

The BCASA Newsletter is published four times during the academic year and is emailed to current BCASA members. Send comments or suggestions to any of the individuals listed below.

BCASA OFFICERS	
President, 2015-16	James MacDougall, Consultant
President-Elect, 2017-	Greta M. Ljung, Consultant
Program Chair, 2013-16	John McKenzie, Babson College
Program Vice-Chair, 2013-16	Robert Goldman, Simmons College
Program Vice-Chair, District 1, 2015-17	Mimi Y. Kim, Albert Einstein College of Medicine
Vice-President, 2016-17	Miriam Chernoff, Harvard T.H. Chan School of Public Health
Secretary, 2016-17	Eugenie Coakley, John Snow, Inc.
Treasurer, 2016-17	Lisa Mukherjee, Consultant
Council of Chapters Representative, 2016-2018	Mingfei Li, Bentley University
Past President, 2015-16	Tom Lane, MathWorks
Webmaster, 2013-16	Ching-Ti Liu, Boston University
Newsletter Editor, 2015-16	Yan Dong, OPKO Diagnostics
BCASA COMMITTEE CHAIRPERSON	
<i>Mu Sigma Rho</i>	Liam O'Brien, Colby College