

Assistant Professor, Biostatistics

Overview: The NYU Grossman School of Medicine Division of Biostatistics advances individual and population health by creating, disseminating, and implementing rigorous, innovative statistical and research methodologies. The division leads basic, clinical, translational, and population health research through interdisciplinary collaboration and education of diverse scientists.

Assistant Professor: Assistant Professor Candidates should have interest in various areas of biostatistics, including but not limited to innovative clinical trial design and implementation, causal inference, statistical genomics/proteomics, and methods for big data. Candidates must possess or soon expect an earned doctorate in biostatistics, statistics, or a related quantitative field. They should be emerging scholars with evidence of a growing body of outstanding scholarship and a strong commitment to teaching. Successful candidates will engage in both methodological and collaborative research with existing faculty at NYU Grossman School of Medicine and other Schools and Centers within NYU, have a commitment to team science, and possess effective oral and written communication skills.

Job Description: Faculty in the Division of Biostatistics conduct both methodological and collaborative research. They also teach and mentor students and other trainees, and contribute to the institution and profession in a variety of ways. Examples in each category are listed below.

Methodological research

- Develop new techniques for statistical design and analysis that innovate approaches to analyze complex and evolving data modalities and address particular shortcoming of existing methods
- Perform thorough evaluation of such techniques to assess operating characteristics, freedom from bias, precision, computational efficiencies, ease of implementation, and interpretability of results
- Develop new software for public use
- Produce academic manuscripts for biostatistical journals and other leading scientific journals and present the work at national and international conferences to disseminate results.

Collaborative research

- Work with basic science, clinical, and translational researchers across NYUGSOM
- Together with collaborators, identify and refine study hypotheses for investigator-initiated projects
- Create appropriate study designs and analytic plans to address hypotheses
- Collaborate on grant applications, writing methods and analytic sections
- Undertake state-of-the-art statistical analysis of data from a wide variety of sources (laboratory experiments including all types of 'omics and "big data"; observational studies including causal inference; clinical trials; electronic health record, medical claims, and other real-world data; spatial and network analyses; epidemiologic studies; cost-effectiveness studies; health services research analyses)
- Create data visualizations and interpret results from statistical models
- Contribute to manuscripts published in medical and specialty journals
- Train and supervise MS-level research staff in their collaborative work with investigators

Education and mentoring



- Teach formal courses to biostatistics students and non-quantitative students on statistical methods, analytic techniques, software use, principles of clinical research, and other topics
- Present lectures on biostatistics and analytic methods as part of existing courses in clinical research
- Supervise graduate students on methodologic projects as part of their PhD studies
- Serve as committee members for graduate students from other programs
- Serve as mentor on K awards and other formats for fellows and junior faculty
- Supervise postdoctoral fellows

Institutional and professional service

- Serve on a wide variety of divisional, departmental, and institutional committees
- Participate in professional society activities
- Serve as a reviewer for NIH study sections and other national review activities
- Serve as the statistician on independent Data and Safety Monitoring Boards for ongoing clinical trials

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