DEPARTMENT OF STATISTICS

Phone: 703-993-3645
Email: statistics@gmu.edu
Website: statistics.gmu.edu

Statistical methods and methods for data analysis are crucial for all disciplines in which data are present. As collection of data grows in all sectors of employment, the Department of Statistics prepares students to meet the challenges of data collection, data reduction, interpretation, and analysis.

Department Offerings

Courses

The department offers a variety of introductory courses and more advanced course work in specialized statistical methodology and applications. The focus of the department's offerings is applied, computational, and theoretical, with special emphasis on biostatistics, graphics and visualization, federal statistics, and data analytics.

Undergraduate Programs

The Department of Statistics offers an undergraduate Statistics, BS (http://catalog.gmu.edu/archives/2020-2021/colleges-schools/ engineering/statistics/statistics-bs/), as well as a Data Analysis Minor (http://catalog.gmu.edu/archives/2020-2021/colleges-schools/ engineering/statistics/data-analysis-minor/) and a Statistics Minor (http://catalog.gmu.edu/archives/2020-2021/colleges-schools/ engineering/statistics/statistics-minor/). A variety of advanced undergraduate courses are also available for inclusion in other degree programs.

Graduate Programs

The department also administers three master's degree programs: Statistical Science, MS, (http://catalog.gmu.edu/archives/2020-2021/ colleges-schools/engineering/statistics/statistical-science-ms/) Biostatistics, MS (http://catalog.gmu.edu/archives/2020-2021/colleges- schools/engineering/statistics/biostatistics-ms/) and Data Analytics Engineering, MS. (http://catalog.gmu.edu/archives/2020-2021/colleges- schools/engineering/data-analytics-engineering-ms/) The Data Analytics Engineering, MS (http://catalog.gmu.edu/archives/2020-2021/ colleges-schools/engineering/data-analytics-engineering-ms/) is a multidisciplinary program with courses and concentrations offered by many participating departments in the Volgenau School of Engineering.

Two dual master's degree programs, the Mathematics and Statistical Science Dual-Degree, MS (http://catalog.gmu.edu/archives/2020-2021/ colleges-schools/engineering/statistics/statistical-science-ms/ #dualdegreeoptionstext) and the Operations Research and Statistical Science Dual-Degree, MS (http://catalog.gmu.edu/archives/2020-2021/ colleges-schools/engineering/statistics/statistical-science- ms/#dualdegreeoptionstext) are offered in conjunction with the Mathematical Sciences (http://catalog.gmu.edu/archives/2020-2021/ colleges-schools/science/mathematical-sciences/#text) and Systems Engineering and Operations Research (http://catalog.gmu.edu/ archives/2020-2021/colleges-schools/engineering/systems-operations- research/) departments respectively.

Finally, the Statistical Science, PhD (http://catalog.gmu.edu/ archives/2020-2021/colleges-schools/engineering/statistics/statistical- science-phd/) represents the highest academic attainment for a statistician and, as such, requires in-depth knowledge of modern statistical theory and practice.

Faculty

Department Faculty

Professors

Carr, Davis, Rosenberger, Sun (Chair), Vidyashankar

Associate Professors

Diao, Sutton

Assistant Professors

Bagchi, Bruce, Fadahunsi, Holmes, Hunter, Izmirli, Johnson, Qiao, Ramezani, Slawski, Strazzeri

Emeritus Faculty

Bolstein, Miller

Programs

- Applied Statistics Graduate Certificate
- Biostatistics, MS
- Data Analysis Minor
- Statistical Science, MS
- Statistical Science, PhD
- Statistics Minor
- Statistics, BS