

STATISTICS: STATISTICS AND DATA SCIENCE, MS

This is a named option (formally documented sub-major) professional program in the Statistics MS (<http://guide.wisc.edu/graduate/statistics/data-science-ms/>). Data science is the study of extracting knowledge from data. Our MS Statistics: Statistics and Data Science option combines a background in statistical theory, methods and practice related to data science with communication skills to train a new generation of leaders who will use data effectively for planning and decision making.

Data science concepts enable students to translate vague questions about complex data into pragmatic analysis steps using statistical thinking. We build from basic methods that compare groups and relate measurements, to more complicated models that depend on the way data are gathered. In practice, planning and decision making involve choices about how to analyze data and communicate findings. These concepts will be grounded at key points with projects that involve real data and/or realistic simulated data.

Students may also be interested in the MS Data Science (<https://guide.wisc.edu/graduate/statistics/data-science-ms/#text>) professional program, offered by the Department of Statistics in cooperation with Department of Computer Sciences. The MS Data Science program is designed for students who are primarily interested in entering the data science profession, and teaches key computational and statistical skills that may be applied to a variety of industries.