Statistics, Ph.D.

Learning Outcomes

Graduates will be able to:

• have a solid understanding of the mathematical and statistical theory that underlies statistical methods;
• conduct literature reviews to summarize the state of the art for specific theoretical and applied topics;
• formulate, implement, and assess appropriate statistical models for analyzing data;
• identify limitations of existing methods and independently develop and assess novel methods, e.g., for analyzing new types of data;
• appreciate the issues of uncertainty, reproducibility, and computability in data analysis;
• collaborate with non-statisticians to help collect and analyze data; and
• acquire effective communication skills for disseminating statistical findings.