

Basic Statistics Workshops

Fall 2026

The **Center for Statistical Computing** (CSC) invites all graduate students, staff, and faculty to participate in our statistics workshops. Sessions will be offered either via **Zoom** or in the **[GOLD Lab for Intro to R and Lab C for all other workshops](#)**, located on the upper level (UL) of Healey Library. This semester's workshops will cover SPSS, SAS, Stata, R/RStudio, Python, and ChatGPT. Participants will receive handouts, program files, and example data sets, as well as a certificate of participation upon completing each workshop. Workshop descriptions, schedules, and registration links are provided below.

Statistics Workshop Descriptions:

Introduction to Stata: This hands-on workshop provides a practical introduction to Stata using both its graphical user interface and command syntax. Participants will learn the fundamentals of working with Stata, including importing and browsing data, managing and recoding variables, generating descriptive statistics, conducting independent-samples *t*-tests and chi-square tests, and fitting linear regression models.

SPSS 1: This hands-on workshop introduces participants to data management and statistical analysis using SPSS for Windows. Topics include entering and importing data; creating an SPSS data file with variable names, variable labels, value labels, and missing-value definitions; generating frequency tables and crosstabulations; recoding variables; conducting independent-samples *t*-tests; and performing simple linear regression.

SPSS 2: This workshop begins with a brief review of the data management and statistical analysis skills introduced in SPSS 1 and then covers more advanced SPSS procedures. Data management topics include selecting cases, combining cases from multiple files, and merging files containing different variables. Statistical topics include chi-square tests, one-way ANOVA, repeated-measures analysis, nonparametric tests, multiple regression, and logistic regression.

Introduction to SAS: This hands-on workshop introduces participants to SAS for data management and statistical analysis. Topics include navigating the SAS environment, importing and preparing data sets, managing variables, generating descriptive statistics and tables, and conducting basic statistical analyses, including *t*-tests, chi-square tests, correlation analysis, and linear regression models. The workshop will also introduce methods for examining statistical assumptions and evaluating regression model fit.

Statistical Analysis Using Excel: This hands-on workshop introduces practical tools and techniques for efficiently managing and analyzing data in Excel. Topics include entering and organizing data, generating descriptive statistics, examining frequency tables and crosstabulations, conducting independent-sample and paired-sample *t*-tests, performing correlation analysis, and fitting simple linear regression models.

Introduction to R: This hands-on workshop introduces participants to data management, statistical analysis, and visualization using R, a free, open-source software environment supported by an active user community. Topics include installing and loading R packages, importing and exporting data files, generating descriptive statistics and frequency distributions, creating graphs, and conducting chi-

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square tests, independent-samples t -tests, one-way ANOVA, and linear and logistic regression analyses.

Introduction to RStudio: This hands-on workshop introduces participants to statistical analysis and visualization using RStudio, a user-friendly integrated development environment for the R programming language. Topics include navigating the RStudio environment, installing and loading R packages, importing and exporting data, working with basic data structures, generating descriptive statistics, creating graphs with *ggplot2*, and conducting linear and logistic regression analyses.

Introduction to Python in Statistics: This beginner-level, hands-on workshop introduces participants to Python programming and its applications in statistical analysis. No prior Python experience is required. Using practical examples from social sciences, the workshop covers the Python environment, basic programming concepts, common data types, importing and managing data, and generating descriptive statistics. Statistical topics include t -tests, Chi-square tests, analysis of variance (ANOVA) and linear regression.

Statistics using ChatGPT: This hands-on workshop introduces participants to using ChatGPT as a tool to support statistical analysis. Topics include formulating statistical questions, selecting appropriate methods, generating and reviewing programming code, and interpreting and presenting results. Practical examples include t -tests, one-way ANOVA, Chi-square tests, and linear regression. The workshop also emphasizes verifying ChatGPT-generated results and using appropriate practices to protect confidential or sensitive data.

Registration Procedures:

Seats and handouts are limited. Please register in advance.

1. Click the 'In-person Register' or 'On-Zoom Register' under Registration.
2. Fill out all the information and submit your registration form.
3. Join the workshops via a Zoom link in the confirmation email or attend an in-person session for in-person workshops.

All in-person workshops will be held in **GOLD Lab for Intro to R and Lab C for all other workshops** on the upper level (UL) of Healey Library.

Please contact Mr. Inal Mashukov at inal.mashukov001@umb.edu for any questions regarding the workshops.

Web: https://www.umb.edu/academics/graduate/info_for_graduate_students/center_for_statistical_computing

Location: **Healey Library, GOLD Lab for Intro to R and Lab C for all other workshops.** (From the main elevators in Healey Library, take the Upper level (UL). Turn right leaving the elevator, and you'll find Lab C on the right in the hallway)

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<i>Topic</i>	<i>Date</i>	<i>Day</i>	<i>Time</i>	<i>Registration</i>
Intro. To Stata	Sep. 14	Monday	11:00-1:00 P.M.	In-Person Register --- On-Zoom Register
SPSS 1	Sep. 16	Wednesday	11:00-1:00 P.M.	In-Person Register --- On-Zoom Register
Intro. To SAS	Sep. 21	Monday	11:00-1:00 P.M.	In-Person Register --- On-Zoom Register
Statistics using Excel	Sep. 22	Tuesday	1:00-3:00 P.M.	On-Zoom Register
SPSS 2	Sep. 23	Wednesday	11:00-1:00 P.M.	In-Person Register --- On-Zoom Register
Intro. to R	Sep. 25	Friday	11:00–1:00 P.M.	On-Zoom Register
Intro. To RStudio	Sep. 29	Tuesday	11:00 – 1:00 P.M.	On-Zoom Register
Intro. To Python	Oct. 2	Friday	11:00 – 1:00 P.M.	In-Person Register
Intro. To Stata	Oct. 09	Friday	10:00 - 12:00 P.M.	On-Zoom Register
SPSS 1	Oct. 13	Tuesday	1:00-3:00 P.M.	On-Zoom Register
Statistics with ChatGPT	Oct. 16	Friday	11:00 - 1:00 P.M.	On-Zoom Register
Intro. To R	Oct. 20	Tuesday	11:00 - 1:00 P.M.	In-Person Register
SPSS 2	Oct. 22	Thursday	1:00-3:00 P.M.	On-Zoom Register
Intro. To SAS	Oct. 29	Thursday	1:00-3:00 P.M.	On-Zoom Register
Statistics using Excel	Oct. 30	Friday	11:00 - 1:00 P.M.	In-Person Register --- On-Zoom Register
Statistics with ChatGPT	Nov. 6	Friday	11:00 – 1:00 P.M.	In-Person Register