

Beginner Coding Workshops – Spring 2025

Location: Wellness 149

1. Mar 6 (Thurs) 2:40-3:40

Intro to R

- a. Intro to object-oriented programming
- b. Basic R syntax (data types, logical operators, subsetting)
- c. Entering, importing, simulating, and managing data

2. Mar 28 (Fri) 12:00-1:00

Data visualization in R

- a. Building plots from scratch
- b. Making simple plots (histogram, box, bar, scatter)
- c. Customizing plots (titles, labels, colors, legends)

3. Apr 3 (Thurs) 2:40-3:40

Statistical analysis in R

- a. Review of previous sessions
- b. Descriptive stats (table, mean, median, sd, summary)
- c. Inferential stats (t-test, correlation, regression)

4. Apr 11 (Fri) 12:00-1:00

Intro to Python

- a. Basic Python syntax (data types, variables, lists)
- b. Importing and simple data manipulation (filtering, selecting columns)

5. Apr 17 (Thurs) 2:40-3:40

Visualization and analysis in Python

- a. Creating plots with Matplotlib
- b. Basic descriptive and inferential stats