

StatQuest Workshop Overview

Course description

Welcome to StatQuest! This course will cover the fundamental descriptive statistics (frequencies, central tendencies, and variability of data) and inferential statistics (t-test and ANOVA*) students will encounter in different fields of research. Students of this course will be introduced to an open-source statistical program to analyze and interpret quantitative data (R).

Workshop Format

Hybrid, 6/09 to 6/12 10 am, to 12 pm, Data Catalyst Studio. Zoom Link: <https://arizona.zoom.us/j/7861686314>

Learning Outcomes

By the end of this course, students will:

- Describe fundamental concepts in research design and basic statistical techniques used in quantitative research.
- Apply statistical methods using R to organize, analyze, and interpret quantitative data from sample research scenarios.
- Create clear and effective data visualizations and research summaries that communicate key findings using R and best practices for reporting.

Recommended Readings:

- [Data mining conceptual] Jiawei Han, Jian Pei, Hanghang Tong. [Data Mining Concepts and Techniques](#). 4th edition. Morgan Kaufmann, 2023.

See the [UArizona Libraries loaner technology](#) if you need a loaner laptop.