

# 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, Weaver Science and Engineering Library Rm 212.  
Zoom Link: <https://arizona.zoom.us/j/87333040586>

## 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.

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