

# 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, [Future Dates TBD] 10 am, to 12 pm, Weaver Science and Engineering Library Rm 212. Zoom Link: [TBA]. If you would like to sign up for the survey or workshop, please go to this link [\[here\]](#).

## 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:

- [Descriptive Statistics] Antoine Soetewey. [Descriptive Statistics in R](#). Blog 2020.

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

## **Funding**

UofA Investment Funds 2024-2026, PI Dr. Cheng

GPSC REAP grant PI Meg Hokama