# 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]

## **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

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