

PSY 503: Foundations of Psychological Methods

Introduction

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Introductions

- Background
- Statistical Methods
 - PSY 503
 - PSY 505
 - PSY 504
- Research
 - Humans
 - Methods

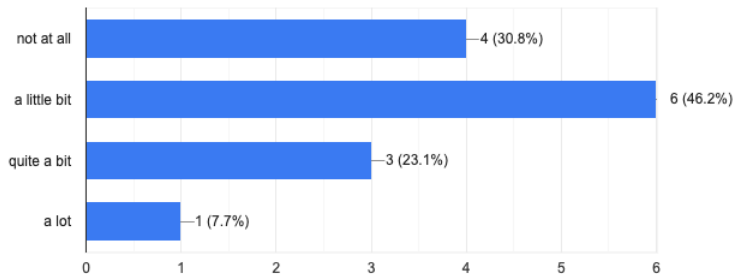
Introductions

- Your turn
 - Background
 - Research interests, advisor
 - Fun fact?

Background Survey

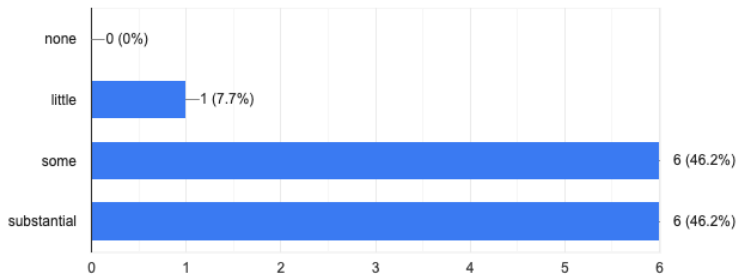
How nervous do you feel about your upcoming statistical training?

13 responses



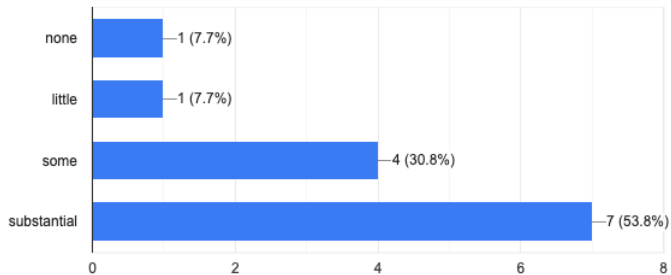
How much experience do you have analyzing data?

13 responses



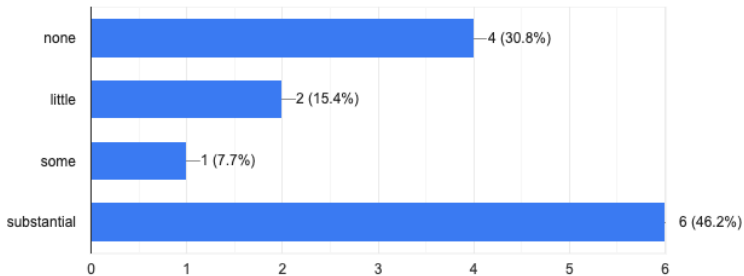
How much experience do you have writing code?

13 responses



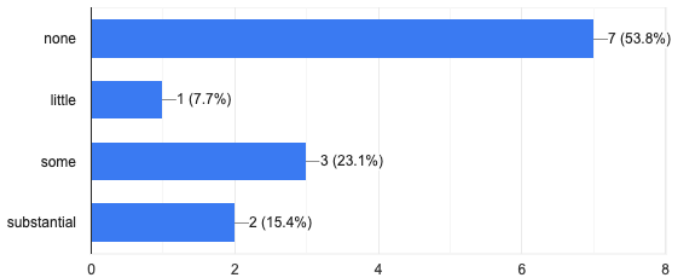
How much experience do you have with R?

13 responses



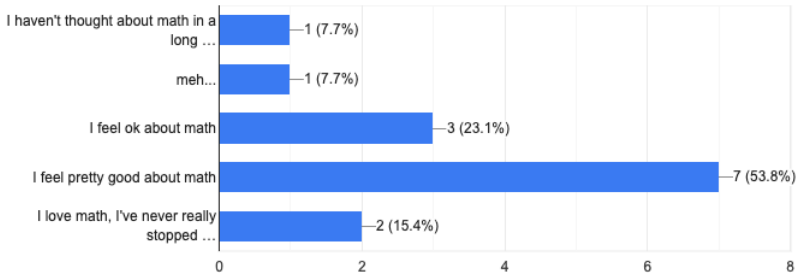
How much experience do you have with RMarkdown?

13 responses



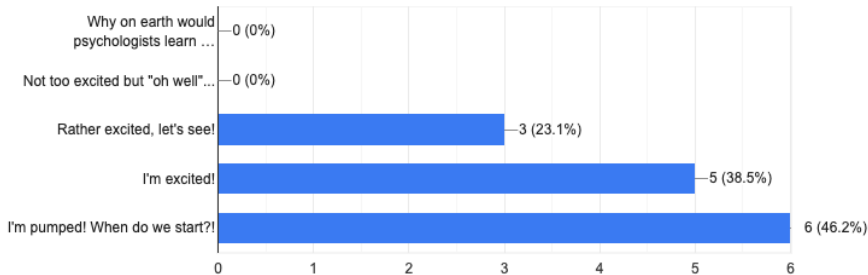
How do you feel about math?

13 responses



How do you feel about learning statistical methods?

13 responses



What types of methods are you planning to use in your research? (PART I)

- linear regression
- t-test & ANOVAs
- multilevel / hierarchical models
- experiments
- quasi experiments

What types of methods are you planning to use in your research? (PART II)

- text analysis
- network analysis
- computational modeling
- gaussian mixture modeling
- network analysis
- bayesian methods

Questions? Comments?

Logistics

- Lectures
 - Mondays and Wednesdays 10-11.20 am
- No precepts BUT
 - Enroll in PSY 505 (Tuesdays 11am-1pm)
- Office hours: Tuesday 9-10.30am (OK?) or by appointment
 - Please email me

Objectives

Build foundational knowledge, skills, and intuitions

- Statistical concepts
- Computational tools
- Mathematics

Foundational knowledge

- Assignment 1:
 - In which domains of life have you acquired some foundational knowledge?
 - When is foundational knowledge useful? Why spend time learning the foundations of a discipline or activity?
 - When is it less relevant?

Analyze data

- Experimental, quasi-experimental, (maybe) observational data
- Simple and Multiple Linear Regression
- Multilevel modeling

A meaningful experience

- Diversity of backgrounds
- Diversity of interests
- Diversity of objectives

Books

- Gomila, R. (2020). *Foundations of Psychological Methods*.
 - Working on it.
 - Link: <https://foundations-psychological-methods.netlify.app/>
 - Relevant chapter available every Wednesday after lecture

- Additional resources

Assignments

- Problem Sets
 - Assigned on Wednesday
 - Due on the following Wednesday
- Pre-registration project
- Final exam
 - Take home

Questions?

Online platforms

- Course website
- Canvas

Zoom features

- Raising hand
- Whiteboard

Course outline

Let's take a look at the syllabus