



Welcome to QuACK!

Week 1

6/11/2025

Nina, Sophie, and Victoria

Today's Agenda

- Welcome & introductions
- Goals and structure of the bootcamp
- Get to know your peers
- Let's look at some real data!
- Introduction to R and data types

Who are we?

Sophie (she/her/hers) sophie_regan@berkeley.edu

Rising 5th year PhD Candidate • Developmental • LCD (Srinivasan) Lab

Instructors

Nina (she/her/hers) nina_schoener@berkeley.edu

Rising 3rd year PhD Student • Developmental • LCD (Srinivasan) Lab

Victoria (she/her/hers) victoria_keating@berkeley.edu

Rising 6th year PhD Candidate • Developmental / Social-Personality •
LCD (Srinivasan) Lab / UC DREAMS (Eason) Lab

Coordinator

Why are we doing this?

- Coding skills are becoming increasingly more important, not just for research but for many jobs → It's a transferable skill
- Learning to code can feel really inaccessible and even scary!
 - If you feel this way, you're not alone!
- We want to help make learning R and programming feel more accessible and fun

Why R?

R is built for working with and analyzing data frames. And that is exactly what we need!

Pointing and clicking is easy and accessible, but it has its limitations – especially when it comes to reproducibility!

Check out these sites for more information:

- [Why is R so great?](#)
- [Why R is like a relationship...](#)

From: [YaRrr! The Pirate's Guide to R](#)



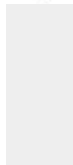
Goals for the bootcamp

- Learn foundational R and programming skills so you can learn more on your own and in your lab
 - Don't just do, **understand**!
- Feel confident in your skills moving forward
- Build an inclusive, welcoming, and supportive community around programming and data skills for people at all skill levels and from all backgrounds

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Day 1



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Day 1



Day 100



And it is always a work in progress!
Be patient with yourself!

Some things to keep in mind

- People are coming in with different backgrounds and experiences
- Some things we talk about may be easy for you, and others may be new
- Be open to brushing up on things you already know and supporting your peers while they learn something new!
- We have tried to make this workshop accessible and interesting for people at various different levels

Structure of the bootcamp

Typical session structure

1. Introduction to the skill we're covering
2. Live coding demo (interrupt us with questions!)
3. Individual practice and work on real data
4. Talk it over with peers

Sophie & Nina will come around to answer questions

5. Discussion

We will send you the materials (scripts, PDFs, and datasets) for each week before the session.

Structure of the bootcamp

Session 1 (6/11)	Session 2 (7/2)	Session 3 (7/16)	Session 4 (7/23)
Intro to R and RStudio	Data cleaning and wrangling	Data visualization	Intro to stats with R

We will work with some of the same data throughout the bootcamp to get a feel for the process of exploring data and getting it ready for analysis

Sessions build on each other and we will pick up where we left off in the last session – you will get the most out of the bootcamp if you attend all four weeks!

Let's get to know each other!

- Your name
- What lab you're in, what your role is
- 1 recommendation (book, TV show, restaurant, cafe, artist, game...)

UC Berkeley



Time to get started in R!

- Go to <https://tinyurl.com/quack-summer>
- Download and unzip the course materials
- You will see 3 files:
 - An R Markdown (.rmd) file
 - A .csv file
 - A PDF
- Open the R Markdown file – this is where we will code together for the first part of the session
- The .csv file contains the data we will be working with
- The PDF contains practice exercises for you to do during the second part of the session

