



QuACK



Fall 2020 Schedule

	Workshop Topic	Workshop Agenda
Week 1	Intro to R & Programming	<ul style="list-style-type: none">- Data types- operators- vectors & indexing- levels & factors
Week 2	Github & Dataframes	<ul style="list-style-type: none">- Intro to using Github- Reading in and viewing data- Dataframes- Accessing and summarizing data
Week 3	Data cleaning (base R)	<ul style="list-style-type: none">- vectorization- missing variables- editing dataframes- adding/removing data
Week 4	Data cleaning (dplyr) & intro to tidyverse	<ul style="list-style-type: none">- editing dataframes with tidyverse- grouping, summarizing, filtering data- pipes
Week 5	Reshaping data	<ul style="list-style-type: none">- reshaping data into wide/long format- when to reshape data- benefits and uses of different formats
Week 6	Intro to loops	<ul style="list-style-type: none">- iterating over vectors- for loops- nested loops
Week 7	Random sampling	<ul style="list-style-type: none">- Populations and sampling distributions- Random variables- for loops cont.- Random sampling (205 example)
Week 8	Data visualization intro	<ul style="list-style-type: none">- Formatting data for visualization- plotting in base R- ggplot intro
Week 9	Data visualization (ggplot)	<ul style="list-style-type: none">- Visualizing results- ggplot challenge!!!
Week 10	Review	Review Make an R cheat sheet
Week 11	Discussion topic: <i>Racism in statistics</i>	
Week 13	Discussion topic: <i>Open science & data sharing</i>	
Week 14	flex week	for whatever/whenever in the schedule
Week 15	celebrate	Celebrate the end of the fall semester!