Day 1

Intro to R - what it is; installing R; the console; installing packages; R Studio - talking what CRAN is Why use it? Find an example publication. Download and open Arithmetic in R -- exercises Variable Assignment -- exercises Relational operators -- exercises Logical operators -- exercises Data types in R -- exercises Vectors -- exercises Matrices -- exercises Factors -- exercises Dataframes -- exercises Lists -- exercises Writing your first script - repeatability; sharing your code With Syntax and google style guide and commenting Data dryad and other repositories... If else statements - exercises Looking at the page here Functions and Loops -- exercises Apply functions -- exercises What is more efficient? Case by case TAKE HOME MESSAGES-different ways of approaching a problem

Day 2

Short review of previous day- Open Script, Run Script

R Bootcamp Fall 2017 - Proposed syllabus

Review exercise: Write a function with scaffolding and they have fill in (solutions at the back)

Reading in and saving data -- exercises

Special types of data:

Times and dates - exercises

Geo data and maps

Summary statistics -- exercises

Plotting: basic plotting and ggplot, ggvis -- exercises

Simulating data in R -- simple exercise