**STRI Introduction to R 2020**

**Instructors**

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**Goal**

The goal of this course is to provide students with an introduction to basic functionality in R, including installing the program and packages, reading, manipulating, graphing, and analyzing data, and writing simple functions and programs.

**Format**

We will present one-hour lectures/tutorials by Zoom on Wednesdays at 10:00am. Tutorials will contain extra exercises to practice on your own time. The instructors will each hold office hours by Zoom between lectures (schedule below) in which they will be available to help with the tutorials or other R questions you may have. We encourage you to work together on the tutorials as social distancing allows, and use the course Slack channel for questions and discussion. You can contact us through the course Slack channel or at our email addresses above.

**Lecture Schedule (subject to change)**

**Wednesday, April 29, 10:00am – How R Works**

Basic RStudio interface; interactive with Rmarkdown, non-interactive with scripts; creating/deleting objects; R help; data types; sequences; math and logic operators; reading/saving data files; creating/converting objects

**Wednesday, May 6, 10:00am – Flow Control**

Installing packages; indexing; simple functions; loops; if/else; creating functions

**Wednesday, May 13, 10:00am – Graphics**

Plotting functions in base R; graphical parameters; multiple panels; ggplot2

**Wednesday, May 20, 10:00am – Statistical Analysis**

Data exploration; analysis of variance; linear models; ordination

**Office Hours**

Ernesto –

Tauana – Friday 2-3pm

Bruno – Tuesday 10-11am

Lee – Monday 3-4pm