# Contact Details

**Brooke Luetgert, PhD.** Computational Scientist at RCC

Email: luetgert@uchicago.edu
Office: TAAC 2, 5607 South Drexel
Telephone: (773)-834-5313

RCC Help Desk: Reg. 216, Mon-Fri 9AM-5PM

Materials on GitHub- use search bar, enter user:luetgert
Our folder is **luetgert/introR**

# Plan for Today

Our focus will be two-fold:

1. We want to download RStudio and set up our local workspace
2. We want to work our way through several descriptive data analysis and plotting tasks with a focus on exporting our results for reporting.

# Download RStudio

R and RStudio are separate downloads and installations. R is the underlying language and compute environment, but RStudio is the IDE (integrated development environment) that makes R easier and interactive.

First, we install R, then RStudio:

1. Go to the CRAN website, download and install R
2. Go to the RStudio download page and download

*Always confirm your OS: **Windows vs. Mac**

# Tidyverse

AFTER RStudio is running on your laptop, we will install our first package:

At the console type:
install.packages(c("tidyverse"))

# Why R?

Learning R may be more challenging than STATA or SPSS, but typing your commands rather than depending on point and click is a very good thing!

R scripts will make the steps in your analysis clear. The code you write will be transparent. You will gain a deeper understanding of what you are doing and the assumptions that you are making.

Code is great for reproducibility, fixing mistakes, updating assumptions and data and meeting publication standards!

# More R Benefits

R produces beautiful plots that are easy to label

R has a tremendous support community with a great deal of code snippets and insights

R is open-source and cross-platform

R offers a large selection of add-on packages which enhance the R experience for discipline specific research.