**CCAM/BDAC R Workshops:**

**November 14 and December 5, 2019**

**Pre-Workshop Instructions**

You may need to install R and/or RStudio (instructions on Page 1), and/or install the ggplot2, dplyr, and readr packages (instructions on Page 2).

**Installing R**

# On Windows

1. Visit <https://cran.r-project.org/>, the Comprehensive R Archive Network.

2.Click “Download R for Windows” 🡪 “Install R for the first time” 🡪 “Download R 3.6.1 for Windows”

3. Install R as you would any other program on Windows

# On Mac

1. Visit <https://cran.r-project.org/>, the Comprehensive R Archive Network.

2. Click “Download R for (Mac) OS X” 🡪 “R-3.6.1.pkg”

3. Install R as you would any other program on Mac

# On Linux

1. R may already be part of your Linux distribution; check your package management system to see if it is there

2. If it is not there, visit <https://cran.r-project.org/>, the Comprehensive R Archive Network.

3. Click “Download R for Linux” 🡪 select the directory with your Linux distribution

4. Follow the instructions in the directory’s README file to install R

**Installing RStudio**

1. If you don’t have R installed, install that first.

2. Go to the download page at <https://www.rstudio.com/products/rstudio/download/>. Under “Installers for Supported Platform,” click on the appropriate installer for your operating system. Don’t click anything under the “Zip/Tarballs” heading unless you need the source code.

3. Once downloaded, install RStudio as you would install any other program on your operating system.

**Installing ggplot2, dplyr, and readr packages**

1. In RStudio, click Tools 🡪 Install Packages.

2. In the popup menu that appears, type in the Packages text box (make sure this is a comma-separated or space-separated list!):

ggplot2, dplyr, readr

3. Click Install. Wait for the packages to be downloaded and installed. If this is your first time using R, this could take a while, because RStudio has to download a number of other packages, called “dependencies,” that contain functions used by these packages.

You can use these same steps to install any R package that exists on the CRAN repository. Just type in the name of the package(s) you want in the Packages text box, and RStudio will take care of the installation for you.