

Installing R and JAGS

Please refer to {<https://sites.google.com/site/doingbayesiandataanalysis/software-installation>}, a webpage set up by your textbook author that provides an overview of how to install R and JAGS on your computer.

For step 1, once you have downloaded R, you will need to install it. On my Windows computer, I did this by double clicking “R-4.4.2-win” from my Downloads folder.

For step 2, you are directed to the website of the company that produces R Studio. Here is the specific subpage from which the free version of R studio is available: {<https://posit.co/download/rstudio-desktop/>}. Once you have downloaded R studio, you will need to install it. *This requires administrator level access to your computer.* If your computer is administrated by UKY HealthCare IT, you can submit a help request via {<https://serviceuknow.service-now.com/sp/>}. Otherwise, you can seek help as described at {https://uky.service-now.com/techhelp?id=kb_article&sysparm_article=KB0011425}.

For step 3, once you have downloaded JAGS, you will need to install it. On my Windows computer, I did this by double clicking “JAGS-4.3.1” from my Downloads folder.

For step 5, make sure to extract the content of DBDA2Eprograms. On my Windows computer, I did this by right clicking the zipped folder DBDA2Eprograms and selecting Extract all.

Here is an alternate version of step 6, using R rather than RStudio.

- a. Begin R. (On my Windows computer, the installation of R resulted in clickable icons, both on my desktop and in the Windows Start menu.)
- b. In the File menu of R, choose Change dir. Go to whichever directory contains the extracted DBDA2E programs from step 5.
- c. Open “Jags-ExampleScript.R” in a text editing application. (On my Windows computer, I use Notepad for writing and editing R code. Using Word for this purpose can be problematic, because formatting of some characters in Word [particularly quotation marks] may confuse R.)
- d. Copy all of the code, except for the Optional generic preliminaries, and paste it into the command line of R.
- e. If successful, you’ll see numerical and graphical output in R.

You can omit step 7. You do not need to install STAN for our purposes in CPH 565. However, you are welcome to do so, if you want to have STAN available for your own future use.