

# Understanding & Coding the R Programming Language

tools for flexibility in the analysis process

point...click...point....click  
point...click.....sigh.....

Who would you rather be?

program...program...program  
program...execute....result!

If only the software  
could do the things I  
want...



I'm doing  
it my way!



**Let the Ecology, Organism Biology and Focus on Soils & Water Research Schools at SLU get you on your way...**

Understanding & Programming in R is a week-long course designed to help researchers new to the R programming language or those who haven't mastered R's programming environment to become confident in using R and to design & implement analyses specific to their own research questions (e.g. combining R functions as well as creating their own; using loops to automate repetitive processes; understanding the language structure to avoid all those messy errors). The week will begin by starting with the principles of the R language and using this as the building blocks for adding programming complexity. The course will be based on active programming using in-class exercises so that students learn not only to become more comfortable in using R packages and functions, but also to create their own functions to suit their analytic needs.

**Note that this is NOT a statistics course** – however, we will use some statistical examples to show how to use R to extract and plot your results. Students do not need to have used R previously, but will be required to install the program and do some basic exercises prior to the course.

We run the course in an interactive IRL classroom where students can work at their own level of ability. The teachers (Matt & Malin) have 10 years experience teaching this course and we will look after you, from those taking their first steps into the programming world, up to those who need to fine-tune their skills in base-R programming and loops.

**When: 6-10 November** (5 days full time)...with some pre-course setting up computers

**Where:** Uppsala (location TBA)

**Who:** Matt Low & Malin Aronsson (Dept. Ecology) will organise and teach the course

**What:** You will get 5 days of intensive R programming experience

**Credits:** 3 ECTS

**Deadline: 27th October 2023** - Limited places & they fill very quickly! (priority to PhDs & Research School members; so apply NOW or miss out)

**To register for the course or if you have questions** contact Matt Low at [matt.low@slu.se](mailto:matt.low@slu.se)