

# SEEC Toolbox seminars

## Using R in the Cloud

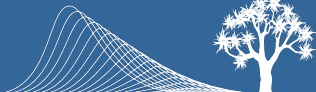
Ian Durbach  
ian.durbach@uct.ac.za



indurbach

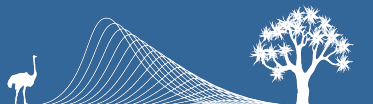


iandurbach



# Remote options for using R

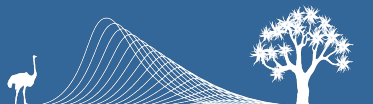
- ▶ Access R and RStudio remotely hosted on a server
- ▶ Why?
  - ▶ Free up your computer to do other things
  - ▶ Big analyses
  - ▶ Avoid or standardize installation of R/RStudio/packages
- ▶ Why not?
  - ▶ Can cost money
  - ▶ Need internet access
  - ▶ Need to upload/download data, results, etc



# Remote options for using R

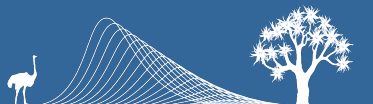
- ▶ Single server (e.g. SEEC servers)
- ▶ Cluster (e.g. UCT HPC, CHPC)
- ▶ Cloud (e.g. AWS EC2, RStudio Cloud, Google Cloud)

We'll look at a few options that avoid the command-line



# Summary

- ▶ AWS
  - + Flexible (choose computing power, OS), not just R
  - Cost, easy use depends on one person
- ▶ RStudio Cloud
  - + Very easy, ~free
  - RStudio only, very new
- ▶ RStudio Jobs
  - + Easy option if you just want to free up your computer
  - Not remote, with all that implies



- ▶ AWS
  - ▶ [http://www.louisaslett.com/RStudio\\_AMI/](http://www.louisaslett.com/RStudio_AMI/)
  - ▶ <https://github.com/iandurbach/datasci-fi/blob/master/lesson4-neural-networks.html>
- ▶ RStudio Cloud
  - ▶ <https://rstudio.cloud/>
  - ▶ <https://www.rstudio.com/resources/videos/learning-r-with-rstudio-cloud/>
- ▶ RStudio Jobs
  - ▶ <https://blog.rstudio.com/2019/03/14/rstudio-1-2-jobs/>
  - ▶ <https://www.youtube.com/watch?v=EB1k1kRbKeU>

