WHY R-STUDIO?

- R is a programming language optimised for **statistical and data analysis**
- Very **well-suited for actuarial**/other data-related work
- Almost all actuarial job openings **require or prefer** candidates to have **competency in R**
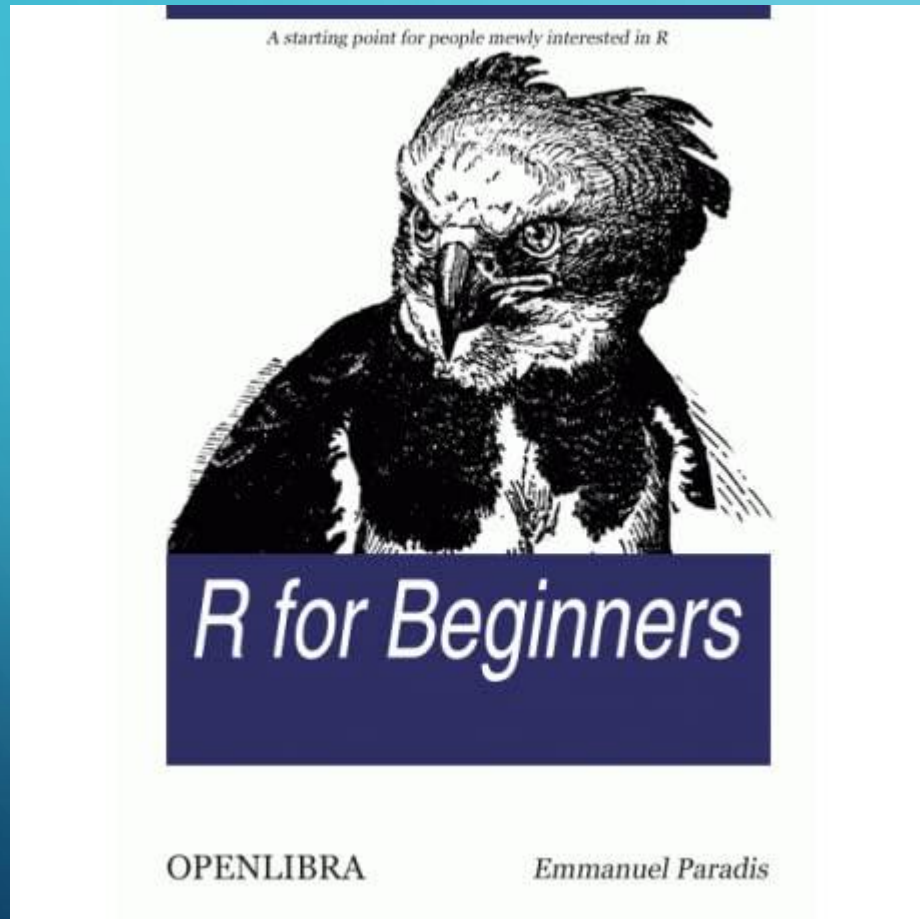
GOAL OF THIS SESSION

- Help you better understand how and where R is used in Actuarial Studies

- Equip you with useful resources that are easily accessible at all times

- Put you in the best position to pick up R for Actuarial Studies (assuming no prior knowledge)

STRUCTURE OF THE SESSION

1. Overview of the topics and subtopics we have prepared resources for

2. Sharing the resources with everyone

3. Recommendations for your self-learning process

4. (Optional) How to download R-Studio

R FOR BEGINNERS – EMMANUEL PARADIS

A starting point for people mewly interested in R

R for Beginners

OPENLIBRA   Emmanuel Paradis

- Recommended by Professor Shuanming Li
- Covers the fundamentals of R assuming no prior knowledge
- 76 Page PDF
- 4 main topics – Data with R, Graphics with R, Statistical analysis with R, R in practice

OUR APPROACH

- Splitting each topic into small, easily digestible chunks

- A short video tutorial for each subtopic

- Websites as an external source of help

- All resources neatly compiled in one document

DATA IN R

- The largest topic by content

- Best place to start from scratch

- Allows understanding of the very basics of R (objects, sequences, etc.)

- Provides a great head start (for 3rd year and below)

GRAPHICS IN R

- Utilises what R is best known for – data visualisation

- How to generate and plot graphs

- "More advanced" version of Excel

STATISTICAL ANALYSIS WITH R

- More technical and mathematical

- Relevant for 3rd year subjects and beyond

- Resources can be used in conjunction with subject material

R IN PRACTICE

- Focused on creating your own practical programs and functions

- Helpful for those keen to work on personal projects

- More creativity involved

DOWNLOADING R-STUDIO

1. Open the link sent in the Zoom chat

2. Scroll to the bottom and click the download link for your operating system

3. Follow all downloading instructions