**INTRODUCTION TO LINEAR MODELS IN R**

by Guy Sutton ([g.sutton@ru.ac.za](mailto:g.sutton@ru.ac.za))

This three-day workshop is designed to remove some of the mystery and terror involved with analysing your hard-earned data. This workshop will focus on performing and interpreting some common statistical analyses used in Zoology and Entomology (e.g. linear regression, ANOVA, GLM…). There are many ways to run the same analysis in R. Here, I will discuss an analysis workflow that has worked well for me over the years, focusing on practical elements such as: choosing an appropriate analysis, data import and cleaning, exploratory data analysis, model building, model evaluation, and plotting and drawing inferences from your model. This is an introductory workshop. As such, advanced modelling topics, such as: mixed-effects modelling, zero-inflated models, Bayesian modelling, will NOT be covered. By the end of this course, you should be able to develop, evaluate and draw inferences from some common linear models using your own data in R, and troubleshoot some common errors encountered.

\* *I know there is an advanced R course being held online by Rhodes University in early-mid August. If you are advanced enough to attend the advanced R course, I do not know much how you would benefit from this workshop.* It looks like an amazing course. See details here: <https://forms.gle/QrZ9Cof3qPmygHg49>/

**Prior requirements:**

* No prior experience with R or linear models (e.g. linear regression, ANOVA, GLM…) is required, but would be beneficial.

**Course information:**

Date: Monday 24th - Wednesday 26th August 2020

Time: 08.30am - 13.00pm (with breaks).

Place: Online only - all sessions will be done via Google Meet/Skype/Zoom (to be announced).

**How to register:**

The course will be limited to 20 participants. Please email me (Guy Sutton) by next Friday (7 August) at [g.sutton@ru.ac.za](mailto:g.sutton@ru.ac.za) if you would like to attend. First come, first serve. If you sign-up, and cannot attend, please tell me so that I can offer your place to somebody else. I will send a detailed course outline by Friday 14th August 2020 to those people who have signed up.