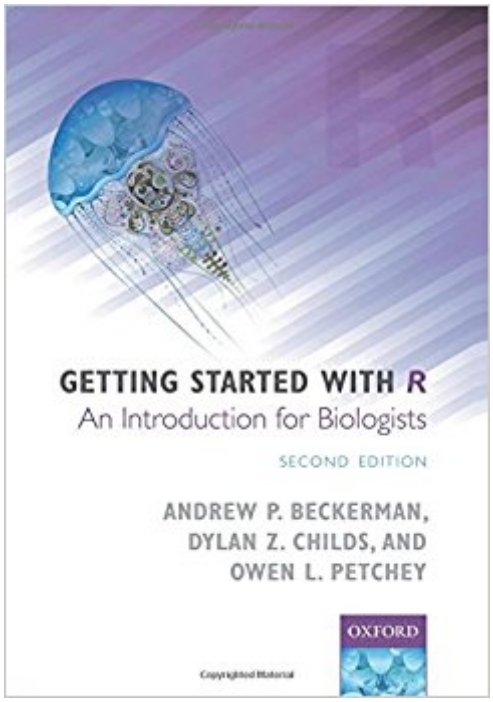
Getting Started With R: An Introduction For Biologists



Synopsis

R is rapidly becoming the standard software for statistical analyses, graphical presentation of data, and programming in the natural, physical, social, and engineering sciences. Getting Started with R is now the go-to introductory guide for biologists wanting to learn how to use R in their research. It teaches readers how to import, explore, graph, and analyse data, while keeping them focused on their ultimate goals: clearly communicating their data in oral presentations, posters, papers, and reports. It provides a consistent workflow for using R that is simple, efficient, reliable, and reproducible.This second edition has been updated and expanded while retaining the concise and engaging nature of its predecessor, offering an accessible and fun introduction to the packages dplyr and ggplot2 for data manipulation and graphing. It expands the set of basic statistics considered in the first edition to include new examples of a simple regression, a one-way and a two-way ANOVA. Finally, it introduces a new chapter on the generalised linear model.Getting Started with R is suitable for undergraduates, graduate students, professional researchers, and practitioners in the biological sciences.

Book Information

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Customer Reviews

Review from previous edition: "The book would make the ideal text for a short course on data management and presentation - it truly packs an amazing amount of wisdom and wit between slim covers." --Trends in Ecology and Evolution"I was engaged by the refreshing style of the authors, that while informal, gives the user clear step-by-step instructions for using the software. Apart from the clear biological leaning of the example data, this book is applicable to anyone learning R (even a

statistician!)." --Significance

Andrew Beckerman, Department of Animal and Plant Science, University of Sheffield,Owen Petchey, Department of Evolutionary Biology and Environmental Studies, University of Zurich,Dylan Childs, Department of Animal and Plant Science, University of SheffieldAndrew leads a research team studying community and evolutionary ecology. He has been using R and teaching quantitative methods for over 16 years.Owen leads a research team studying ecological forecasting. He has been using R and teaching quantitative methods for over 16 years.Dylan leads a research team studying population biology. He has been using R and teaching quantitative methods for over 15 years.

Excellent, clear and immediately useful.

This is THE best book out there for biologists (and others who do data science, I'd think) who want to get up to speed in R. The book is very efficient, funny, smart, and yes, actually fun! I highly recommend using the 2017 2nd edition which is based on Harvey Wickham's packages including dplyr and ggplot2, which are more effective and easier to learn than base R, and are becoming the norm for R users. I both use R and teach it, and I've used many different books and online courses, but if you only have time for one source this should be it.