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Statistics For Terrified Biologists



Synopsis

“We highly recommend it” not just for statistically terrified biology students and faculty, but also for those who are occasionally anxious or uncertain. In addition to being a good starting point to learn statistics, it is a useful place to return to refresh your memory. • “The Quarterly Review of Biology, March 2009 “During the entire course of my Ph.D. I’ve been (embarrassingly) looking for a way to teach myself the fundamentals of statistical analysis. At this point in my education, I’ve come to realize that often times, simply knowing the basics is enough for you to properly apply even the most complex analytical methods. ^Statistics for Terrified Biologists^™ has been just such a book - it was more than worth the \$40 I spent on it, and while my ‘book clubs’ aren’t meant to be reviews, I highly recommend the book to anyone who’s in a similar predicament to my own.” • “Carlo Artieri’s Blog Book Club The typical biology student is •hardwired• to be wary of any tasks involving the application of mathematics and statistical analyses, but the plain fact is much of biology requires interpretation of experimental data through the use of statistical methods. This unique textbook aims to demystify statistical formulae for the average biology student. Written in a lively and engaging style, Statistics for Terrified Biologists draws on the author’s 30 years of lecturing experience. One of the foremost entomologists of his generation, van Emden has an extensive track record for successfully teaching statistical methods to even the most guarded of biology students. For the first time basic methods are presented using straightforward, jargon-free language. Students are taught to use simple formulae accurately to interpret what is being measured with each test and statistic, while at the same time learning to recognize overall patterns and guiding principles. Complemented by simple illustrations and useful case studies, this is an ideal statistics resource tool for undergraduate biology and environmental science students who lack confidence in their mathematical abilities.

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Customer Reviews

I would recommend the book to students of biological disciplines and to those still hesitating about their understanding of the basics of statistics applied in biological research. (Photosynthetica, 2011) "The book is a very useful addition to the library of any student, or indeed professional biologist, who has ever had trouble determining what the point was to a statistical analysis, or what the results really mean." (Austral Ecology and Ecological Management & Restoration, 2011) We highly recommend it not just for statistically terrified biology students and faculty, but also for those who are occasionally anxious or uncertain. In addition to being a good starting point to learn statistics, it is a useful place to return to refresh your memory. (The Quarterly Review of Biology, March 2009) "Statistics for Terrified Biologists provides a valuable guide to statistics in clear language, which make it invaluable for pre-health and biology undergraduates students. Highly recommended." (CHOICE, March 2009) "I would like to express my utmost gratitude to you for writing THE book on statistics for biologists. Your book makes statistics tangible and enjoyable. I've begun spreading the word to the other faculty here, and two have already purchased copies for themselves. I thank you for your time, and this gift you have given biology as a whole!" E. Joseph Nolan IV (West Liberty University, November 2011)

The typical biology student is "hardwired" to be wary of any tasks involving the application of mathematics and statistical analyses, but the plain fact is much of biology requires interpretation of experimental data through the use of statistical methods. This unique textbook aims to demystify statistical formulae for the average biology student. Written in a lively and engaging style, Statistics for Terrified Biologists draws on the author's 30 years of lecturing experience. One of the foremost entomologists of his generation, van Emden has an extensive track record for successfully teaching statistical methods to even the most guarded of biology students. For the first time basic methods are presented using straightforward, jargon-free language. Students are taught to use simple formulae accurately to interpret what is being measured with each test and statistic, while at the same time learning to recognize overall patterns and guiding principles. Complemented by simple illustrations and useful case studies, this is an ideal statistics resource tool for undergraduate

biology and environmental science students who lack confidence in their mathematical abilities.

The book is written so as to understand and respond to questions we biologists rarely get from people in the field of statistics, especially agronomists. I am a plant physiology researcher and many times I felt terrified to cope properly with the statistical standards of the college of agriculture and my biological point of view and results. Eventhough I have the basis for staistical analyses, at times I had to accept that the biological point of view didnot met the statistical standards. Now I am not confused anymore as differences are clear to me after studying the book thus I recommend the book as a very clarifying guide to the experimenter specially in the biological sciences.

It is loaded with formulas. Speaking as a biologist, that is a terrifying sight. I sort of expected a more verbal description, funny, friendly, like Robert A. Day's Scientific English which is really great. So I'm back to begging for help from our statisticians. Hope springs eternal that someone, someday, will write a statistics book for scientists.

This is one of my go to references when I am running analysis or planning an experiment. I have always been really bad at remembering the tiny details in statistics, this book presents them in a way that is intuitive and easy to understand. Better yet it has deepened my understanding of some core concepts that let me choose the right statistical model and given me the tools to argue for why I chose that particular model. I would highly recommend as a desktop reference.

Very easy to follow and explains everything in a way that I can understand. It actually brings a great deal of fun and satisfaction to read and work through the text. I would recommend this to anyone who wants to really get their head around the inner workings of experimental design and agricultural based statistics.

So Far, I found the book very helpful. It helped me to clarify a few, very specific parts in statistic which I heard many times but did not manage to comprehend. I must say that for those that are afraid of statistics and need a detailed and repeated explanation of theories, could benefit in understanding by having that book.

good

very helpful! I would not have made it through statistics 401 without it.

I bought a Kindle version of this book. It was sent immediately and I am satisfied of the quality. However, I am not happy with the content of this book. There are too many typos in this book, some of which are in key calculation steps. Also, I don't like the way the author 'proved' laws. I can understand that it's not a textbook so that the readers don't need to understand how everything was made in the black box, but I also don't think using some numbers and to calculate a similar number to the theoretical number is a good way to 'prove' something. It's better just not to introduce these. I had a clear understanding of statistics when I was taking the course either in my college or in MOOC. I bought this book just to see how statistics might be applied in biology, and I believe this book will only confuse you. My suggestion is take some free MOOC courses or buy a textbook instead.

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