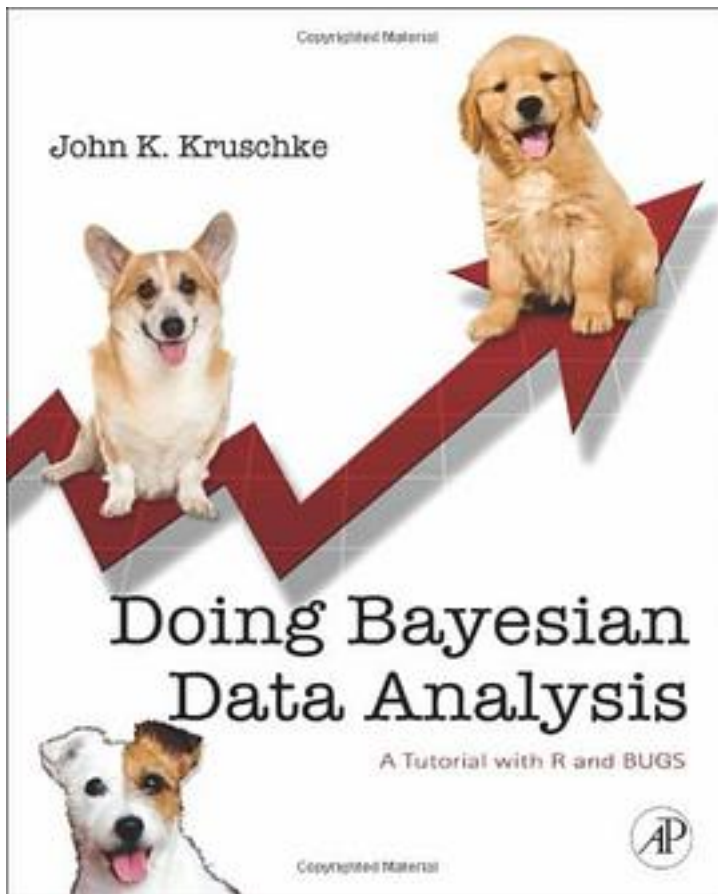


Doing Bayesian Data Analysis



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著者:John K. Kruschke

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There is an explosion of interest in Bayesian statistics, primarily because recently created computational methods have finally made Bayesian analysis obtainable to a wide audience. Doing Bayesian Data Analysis, A Tutorial Introduction with R and BUGS provides an accessible approach to Bayesian data analysis, as material is explained

clearly with concrete examples. The book begins with the basics, including essential concepts of probability and random sampling, and gradually progresses to advanced hierarchical modeling methods for realistic data. The text delivers comprehensive coverage of all scenarios addressed by non-Bayesian textbooks--t-tests, analysis of variance (ANOVA) and comparisons in ANOVA, multiple regression, and chi-square (contingency table analysis). This book is intended for first year graduate students or advanced undergraduates. It provides a bridge between undergraduate training and modern Bayesian methods for data analysis, which is becoming the accepted research standard. Prerequisite is knowledge of algebra and basic calculus. Author website: <http://www.indiana.edu/~kruschke/DoingBayesianDataAnalysis/>

-Accessible, including the basics of essential concepts of probability and random sampling
-Examples with R programming language and BUGS software
-Comprehensive coverage of all scenarios addressed by non-bayesian textbooks-t-tests, analysis of variance (ANOVA) and comparisons in ANOVA, multiple regression, and chi-square (contingency table analysis).
-Coverage of experiment planning
-R and BUGS computer programming code on website
-Exercises have explicit purposes and guidelines for accomplishment

作者介绍:

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标签

统计

R

bayesian

贝叶斯

Statistics

统计学

经济学

计算机

评论

极度左倾贝叶斯主义者， 讲的清晰， 有例子， 很好的入门教程

:无

看了大半， 耐心缺乏， 读不下去了

this book has so many strange terms... perhaps the author is a psychologist.

偏传统统计

贝叶斯极端主义者。讲解方式跟封面一样另类， 喜欢的人喜欢， 但很多人应该不能接受， 我就是不太能接受的那一类...

简单生动， 并且配上代码

After a year of persistent reading, I finally finished this grimoire of statistical dark magic. Best statistical book, ever. Reading it was a testimony of my two major sources of motivation: stubbornness and hatred of incompetence.

一本打着赌场掷骰子法则做幌子的科学书籍，封面可以不要卖萌么

更新：豆瓣书评群魔乱舞。Dr.

Kruschke本人的确是Bayesian死忠，但他1、不是极端主义者2、不是左倾主义者，左倾这个词是说政治倾向的，不懂不要乱用。更有甚者说这本书的内容偏过去的传统统计？Bayesian上世纪70年代就有了知道吗？那叫frequentist不叫传统！书的第一章给你讲frequentist是怕你不懂基本概念带你复习，这怕是只看了第一章就胡扯力荐给缺乏足够统计基础（如非stats专业 bachelor）的初学者。Dr. Kruschke自己有blog，会经常在上面回答（书中提到的）问题和深入讨论。使用的软件是R，主要算法集中在Gibbs Sampler方面，对HMC没有太多介绍。另读完之后想要完全独立做Bayesian，还是要回去吃下Gelman的教材

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书评

力荐给缺乏足够统计基础（如非stats专业 bachelor）的初学者。Dr. Kruschke自己有blog，会经常在上面回答（书中提到的）问题和深入讨论。使用的软件是R，主要算法集中在Gibbs Sampler方面，对HMC没有太多介绍。另读完之后想要完全独立做Bayesian，还是要回去吃下Gelman的书。

Chapter 1 - 3 R basics getwd() Change work directory: Session -> Set Work directory List the files in the working directory: dir() ls() source("mycode.r") myfunction <- function() { x<-rsnorm(100) mean(x) } second <- function(x) { x+rnorm(length...

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