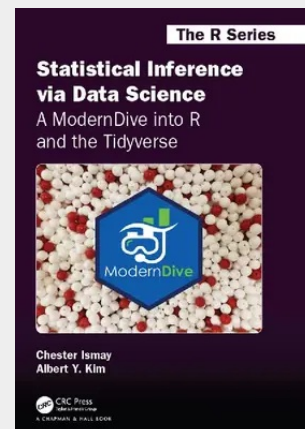


Statistical Inference via Data Science

A ModernDive into R and the Tidyverse

v\:* {behavior:url(#default#VML);} o\:* {behavior:url(#default#VML);} w\:* {behavior:url(#default#VML);} .shape {behavior:url(#default#VML);} Singh, Vaishali Singh, Vaishali 2 2 2019-11-20T05:22:00Z 2019-11-20T05:22:00Z 1 256 1463 12 3 1716 16.00 True 2567d566-604c-408a-8a60-55d0dc9d9d6b Vaishali.Singh@informa.com 2019-11-20T05:19:19.1862213Z General Microsoft Azure Information Protection 720dcbfa-8bec-4301-b38e-b8829e58b2ec Automatic True 2567d566-604c-408a-8a60-55d0dc9d9d6b Vaishali.Singh@informa.com 2019-11-20T05:19:19.1862213Z Un-restricted Microsoft Azure Information Protection 720dcbfa-8bec-4301-b38e-b8829e58b2ec 181c070e-054b-4d1c-ba4c-fc70b099192e Automatic General Un-restricted false false false false EN-US X-NONE X-NONE /* Style Definitions */ table.MsoNormalTable {mso-style-name:"Table Normal"; mso-tstyle-rowband-size:0; mso-tstyle-colband-size:0; mso-style-noshow:yes; mso-style-priority:99; mso-style-parent:""; mso-padding-alt:0in 5.4pt 0in 5.4pt; mso-para-margin-top:0in; mso-para-margin-right:0in; mso-para-margin-bottom:8.0pt; mso-para-margin-left:0in; line-height:107%; mso-pagination:widow-orphan; font-size:11.0pt; font-family:"Calibri",sans-serif; mso-ascii-font-family:Calibri; mso-ascii-theme-font:minor-latin; mso-hansi-font-family:Calibri; mso-hansi-theme-font:minor-latin; mso-bidi-font-family:"Times New Roman"; mso-bidi-theme-font:minor-bidi;} Statistical Inference via Data Science: A ModernDive into R and the Tidyverse provides a pathway for learning about statistical inference using data science tools widely used in industry, academia, and government. It introduces the tidyverse suite of R packages, including the ggplot2 package for data visualization, and the dplyr package for data wrangling. After equipping readers with just enough of these data science tools to perform effective exploratory data analyses, the book covers traditional introductory statistics topics like confidence intervals, hypothesis testing, and multiple regression modeling, while focusing on visualization throughout. Features: - Assumes minimal prerequisites, notably, no prior calculus nor coding experience - Motivates theory using real-world data, including all domestic flights leaving New York City in 2013, the Gapminder project, and the data journalism website, FiveThirtyEight.com - Centers on simulation-based approaches to statistical inference rather than mathematical formulas - Uses the infer package for "tidy" and transparent statistical inference to construct confidence intervals and conduct hypothesis tests via the bootstrap and permutation methods - Provides all code and output embedded directly in the text; also available in the online version at moderndive.com This book is intended for individuals who would like to simultaneously start developing their data science toolbox and start learning about the inferential and modeling tools used in much of modern-day research. The book can be used in methods and data science courses and first courses in statistics, at both the undergraduate and graduate levels.

This is a modern textbook in statistical inference, using the principles of data science through R and the Tidyverse. It assumes minimal background knowledge of the reader: there is no algebra, no calculus, and no prior programming/coding experience.



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