



Introduction to the New Statistics: Estimation, Open Science, and Beyond

By Geoff Cumming, Robert Calin-Jageman

Download now

Read Online ➔

Introduction to the New Statistics: Estimation, Open Science, and Beyond

By Geoff Cumming, Robert Calin-Jageman

This is the first introductory statistics text to use an estimation approach from the start to help readers understand effect sizes, confidence intervals (CIs), and meta-analysis ('the new statistics'). It is also the first text to explain the new and exciting Open Science practices, which encourage replication and enhance the trustworthiness of research. In addition, the book explains NHST fully so students can understand published research. Numerous real research examples are used throughout. The book uses today's most effective learning strategies and promotes critical thinking, comprehension, and retention, to deepen users' understanding of statistics and modern research methods. The free ESCI (Exploratory Software for Confidence Intervals) software makes concepts visually vivid, and provides calculation and graphing facilities. The book can be used with or without ESCI.

Other highlights include:

- Coverage of both estimation and NHST approaches, and how to easily translate between the two.
- Some exercises use ESCI to analyze data and create graphs including CIs, for best understanding of estimation methods.
- Videos of the authors describing key concepts and demonstrating use of ESCI provide an engaging learning tool for traditional or flipped classrooms.
- In-chapter exercises and quizzes with related commentary allow students to learn by doing, and to monitor their progress.
- End-of-chapter exercises and commentary, many using real data, give practice for using the new statistics to analyze data, as well as for applying research judgment in realistic contexts.

-*Don't fool yourself* tips help students avoid common errors.

-Red Flags highlight the meaning of "significance" and what p values actually mean.

-Chapter outlines, defined key terms, sidebars of key points, and summarized take-home messages provide a study tool at exam time.

-<http://www.routledge.com/cw/cumming> offers for students: ESCI downloads; data sets; key term flashcards; tips for using SPSS for analyzing data; and videos. For instructors it offers: tips for teaching the new statistics and Open Science; additional homework exercises; assessment items; answer keys for homework and assessment items; and downloadable text images; and PowerPoint lecture slides.

Intended for introduction to statistics, data analysis, or quantitative methods courses in psychology, education, and other social and health sciences, researchers interested in understanding the *new statistics* will also appreciate this book. No familiarity with introductory statistics is assumed.

 [Download Introduction to the New Statistics: Estimation, Op ...pdf](#)

 [Read Online Introduction to the New Statistics: Estimation, ...pdf](#)

Introduction to the New Statistics: Estimation, Open Science, and Beyond

By Geoff Cumming, Robert Calin-Jageman

Introduction to the New Statistics: Estimation, Open Science, and Beyond By Geoff Cumming, Robert Calin-Jageman

This is the first introductory statistics text to use an estimation approach from the start to help readers understand effect sizes, confidence intervals (CIs), and meta-analysis ('the new statistics'). It is also the first text to explain the new and exciting Open Science practices, which encourage replication and enhance the trustworthiness of research. In addition, the book explains NHST fully so students can understand published research. Numerous real research examples are used throughout. The book uses today's most effective learning strategies and promotes critical thinking, comprehension, and retention, to deepen users' understanding of statistics and modern research methods. The free ESCI (Exploratory Software for Confidence Intervals) software makes concepts visually vivid, and provides calculation and graphing facilities. The book can be used with or without ESCI.

Other highlights include:

- Coverage of both estimation and NHST approaches, and how to easily translate between the two.
- Some exercises use ESCI to analyze data and create graphs including CIs, for best understanding of estimation methods.
- Videos of the authors describing key concepts and demonstrating use of ESCI provide an engaging learning tool for traditional or flipped classrooms.
- In-chapter exercises and quizzes with related commentary allow students to learn by doing, and to monitor their progress.
- End-of-chapter exercises and commentary, many using real data, give practice for using the new statistics to analyze data, as well as for applying research judgment in realistic contexts.
- Don't fool yourself* tips help students avoid common errors.
- Red Flags highlight the meaning of "significance" and what p values actually mean.
- Chapter outlines, defined key terms, sidebars of key points, and summarized take-home messages provide a study tool at exam time.
- <http://www.routledge.com/cw/cumming> offers for students: ESCI downloads; data sets; key term flashcards; tips for using SPSS for analyzing data; and videos. For instructors it offers: tips for teaching the new statistics and Open Science; additional homework exercises; assessment items; answer keys for homework and assessment items; and downloadable text images; and PowerPoint lecture slides.

Intended for introduction to statistics, data analysis, or quantitative methods courses in psychology, education, and other social and health sciences, researchers interested in understanding the *new statistics* will also appreciate this book. No familiarity with introductory statistics is assumed.

Introduction to the New Statistics: Estimation, Open Science, and Beyond By Geoff Cumming, Robert Calin-Jageman Bibliography

- Sales Rank: #655510 in Books
- Brand: imusti
- Published on: 2016-10-07
- Original language: English
- Number of items: 1
- Dimensions: 9.75" h x 6.75" w x 1.00" l, .0 pounds
- Binding: Paperback
- 594 pages



Download [Introduction to the New Statistics: Estimation, Op ...pdf](#)



Read Online [Introduction to the New Statistics: Estimation, ...pdf](#)

Editorial Review

Review

"I envision a day when most textbooks will focus on estimation and meta-analytic thinking as this text does but Geoff Cumming's book is definitely pioneering this journey. ... The voice and pace of the text is engaging. ... The videos ... [are] one of the bestselling points of the text. ... I would certainly ... adopt this book for my introductory statistics courses. ... I have never read a statistics text that introduced concepts in the way provided in this text? clear and simple examples that "informally" allow the reader to integrate several concepts into their thinking. ... Even the more statistically anxious students would be put at ease. ... ESCI allows for students to easily manipulate multiple values and instantly see what happens as a result of that manipulation." - **Susan Troncoso Skidmore, Sam Houston State University, USA**

"There are many introductory statistics books on the market, but this one [is] especially well-positioned to capitalize on the growing interest ... for moving away from relying solely on NHST. ... The author is a well-known and respected advocate of this approach. The focus on estimation, meta-analysis, and research integrity ... will be embraced by many instructors. ... The writing style is appealing, showing the author to be an excellent teacher. ... The ESCI software will be useful for classroom demonstrations as well as for individual learning. The videos are outstanding – the video on dancing p-values changed the way my graduate students interpret research." – **Dale Berger, Claremont Graduate University, USA**

"The concepts are developed in interesting contexts and examples. ... The ESCI tools are amazing. ... The exercises ... are excellent, numerous, and likely to be a great help to instructors. ... The supplemental material ... is impressive and likely to be ... persuasive in adoption decisions. ... The obvious market is the Intro Stats for psychology market. Strengths: The author's ability to communicate statistical concepts; His authoritative grasp of NHST principles, research, and practices; His understanding of, and enthusiasm for, estimation methods; The ESCI ... exercises." – **Bruce Blaine, St. John Fisher College, USA**

About the Author

Geoff Cumming is professor emeritus of La Trobe University and has been teaching statistics for over 40 years.

Robert Calin-Jageman is a professor of psychology and the neuroscience program director at Dominican University and has been teaching and mentoring undergraduate students for nine years.

Users Review

From reader reviews:

Dora Campfield:

Nowadays reading books be than want or need but also work as a life style. This reading addiction give you lot of advantages. The advantages you got of course the knowledge the actual information inside the book which improve your knowledge and information. The data you get based on what kind of guide you read, if you want have more knowledge just go with knowledge books but if you want truly feel happy read one with theme for entertaining including comic or novel. The particular Introduction to the New Statistics: Estimation, Open Science, and Beyond is kind of publication which is giving the reader unpredictable experience.

Joyce Loza:

The particular book Introduction to the New Statistics: Estimation, Open Science, and Beyond has a lot of knowledge on it. So when you read this book you can get a lot of profit. The book was written by the very famous author. Mcdougal makes some research before write this book. This book very easy to read you will get the point easily after reading this article book.

Andrew Comer:

People live in this new time of lifestyle always aim to and must have the extra time or they will get large amount of stress from both way of life and work. So , when we ask do people have extra time, we will say absolutely yes. People is human not just a robot. Then we inquire again, what kind of activity do you possess when the spare time coming to a person of course your answer can unlimited right. Then ever try this one, reading textbooks. It can be your alternative with spending your spare time, typically the book you have read is usually Introduction to the New Statistics: Estimation, Open Science, and Beyond.

Lester Gibbons:

Would you one of the book lovers? If yes, do you ever feeling doubt when you find yourself in the book store? Attempt to pick one book that you find out the inside because don't judge book by its deal with may doesn't work the following is difficult job because you are scared that the inside maybe not because fantastic as in the outside look likes. Maybe you answer is usually Introduction to the New Statistics: Estimation, Open Science, and Beyond why because the great cover that make you consider with regards to the content will not disappoint an individual. The inside or content is definitely fantastic as the outside or even cover. Your reading 6th sense will directly direct you to pick up this book.

Download and Read Online Introduction to the New Statistics: Estimation, Open Science, and Beyond By Geoff Cumming, Robert Calin-Jageman #JANGBUOD6EV

Read Introduction to the New Statistics: Estimation, Open Science, and Beyond By Geoff Cumming, Robert Calin-Jageman for online ebook

Introduction to the New Statistics: Estimation, Open Science, and Beyond By Geoff Cumming, Robert Calin-Jageman Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Introduction to the New Statistics: Estimation, Open Science, and Beyond By Geoff Cumming, Robert Calin-Jageman books to read online.

Online Introduction to the New Statistics: Estimation, Open Science, and Beyond By Geoff Cumming, Robert Calin-Jageman ebook PDF download

Introduction to the New Statistics: Estimation, Open Science, and Beyond By Geoff Cumming, Robert Calin-Jageman Doc

Introduction to the New Statistics: Estimation, Open Science, and Beyond By Geoff Cumming, Robert Calin-Jageman Mobipocket

Introduction to the New Statistics: Estimation, Open Science, and Beyond By Geoff Cumming, Robert Calin-Jageman EPub

JANGBUOD6EV: Introduction to the New Statistics: Estimation, Open Science, and Beyond By Geoff Cumming, Robert Calin-Jageman