



Statistical Methods for Geography: A Student's Guide

By Peter A Rogerson

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How do beginning students of statistics for geography learn to fully understand the key concepts and apply the principal techniques? This text, now in its Fourth Edition, provides exactly that resource. Accessibly written, and focussed on student learning, it's a statistics 101 that includes definitions, examples, and exercise throughout.

Now fully integrated with online self-assessment exercises and video navigation, it explains everything required to get full credits for any undergraduate statistics module:

- Descriptive statistics, probability, inferential statistics, hypothesis testing and sampling, variance, correlation, regression analysis, spatial patterns, spatial data reduction using factor analysis and cluster analysis.
- Exercises in the text are complemented with online exercise and prompts that test the understanding of concepts and techniques, additional online exercises review understanding of the entire chapter, relating concepts and techniques.
- Completely revised and updated for accessibility, including new material (on measures of distance, statistical power, sample size selection, and basic probability) with related exercises and downloadable datasets.

It is the only text required for undergraduate modules in statistical analysis, statistical methods, and quantitative geography.

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Statistical Methods for Geography: A Student's Guide By Peter A Rogerson Bibliography

- Sales Rank: #701261 in Books
- Brand: imusti
- Published on: 2015-02-10
- Released on: 2014-12-27
- Original language: English
- Number of items: 1
- Dimensions: 9.13" h x 1.00" w x 7.32" l, .84 pounds
- Binding: Paperback
- 424 pages

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Editorial Review

Review

In this 4th edition of what is now becoming a classic text, Professor Rogerson provides us with the most up-to-date and comprehensive treatment of basic statistics for geographers. He does so in a very user friendly manner with informative, real-world data sets that bring the statistics to life. This is a book I will certainly use for teaching undergraduate statistics and recommend it very highly. A really useful text for which the author is to be congratulated.

(Stewart Fotheringham)

At a time where spatial quantitative methods are of increasing importance to all concerned with geographical analysis, Rogerson's book is a nicely structured, well explained and up-to-date introduction to and survey of statistical methods in geography and the reasoning behind the techniques.

(Martin Henning)

Statistics has become critically important in contemporary geographical analysis. Statistical literacy is one of the graduate attributes with which universities prepare their geography students. *Statistical Methods for Geography - A Student's Guide* by Peter A. Rogerson provides a fundamental and accessible statistics textbook tailored for geography with well-designed illustrations and exercises. It is suitable for students of geography at all levels.

(Xuan Zhu)

In its previous editions, this book provided an outstanding introduction to statistics for geographers or anyone working with geographical data. The explanations of techniques and the examples and practical exercises are all excellent. This latest edition now incorporates material on a number of new topics such as statistical power and ways of measuring distance, and also includes new and timely example datasets from a variety of geographical locations. Its unique breadth of coverage of statistical ideas and examples make this an excellent choice as a key text for teaching quantitative techniques. I have no hesitation in recommending this book.

(Chris Brunsdon)

This book remains the best available guide for any student seeking to use statistical methods to answer the question, 'where?'. It provides a lucid, comprehensive and practical introduction that will be used widely across geography, and other social and environmental sciences.

(Paul Longley)

About the Author

Peter A. Rogerson is SUNY (State University of New York) Distinguished Professor in the Department of Geography at the University at Buffalo, Buffalo, New York, USA. He also holds an adjunct appointment in the Department of Biostatistics and is a member of the National Center for Geographic Information and Analysis.

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Andrew Fogarty:

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