

FITTING EQUATIONS TO DATA

Computer Analysis of Multifactor
Data for Scientists and Engineers

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Fitting Equations To Data Computer Analysis Of Multifactor Data For Scientists

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Fitting Equations To Data Computer Analysis Of Multifactor Data For Scientists:

Fitting Equations to Data Cuthbert Daniel, Fred S. Wood, 1999-08-30 Helps any serious data analyst with a computer to recognize the strengths and limitations of data to test the assumptions implicit in the least squares methods used to fit the data to select appropriate forms of the variables to judge which combinations of variables are most influential and to state the conditions under which the fitted equations are applicable This edition includes numerous extensions and new devices such as component and component plus residual plots cross verification with a second sample and an index of required x precision also the search for better subset equations is enlarged to cover 262 144 alternatives The methods described have been applied in agricultural environmental management marketing medical physical and social sciences Mathematics is kept to the level of college algebra Fitting Equations to Data Cuthbert Daniel, 1971 **Stochastic Geometry and Its**

Applications Sung Nok Chiu, Dietrich Stoyan, Wilfrid S. Kendall, Joseph Mecke, 2013-06-27 An extensive update to a classic text Stochastic geometry and spatial statistics play a fundamental role in many modern branches of physics materials sciences engineering biology and environmental sciences They offer successful models for the description of random two and three dimensional micro and macro structures and statistical methods for their analysis The previous edition of this book has served as the key reference in its field for over 18 years and is regarded as the best treatment of the subject of stochastic geometry both as a subject with vital applications to spatial statistics and as a very interesting field of mathematics in its own right This edition Presents a wealth of models for spatial patterns and related statistical methods Provides a great survey of the modern theory of random tessellations including many new models that became tractable only in the last few years Includes new sections on random networks and random graphs to review the recent ever growing interest in these areas Provides an excellent introduction to theory and modelling of point processes which covers some very latest developments Illustrate the forefront theory of random sets with many applications Adds new results to the discussion of fibre and surface processes Offers an updated collection of useful stereological methods Includes 700 new references Is written in an accessible style enabling non mathematicians to benefit from this book Provides a companion website hosting information on recent developments in the field www.wiley.com/go/cskm Stochastic Geometry and its Applications is ideally suited for researchers in physics materials science biology and ecological sciences as well as mathematicians and statisticians It should also serve as a valuable introduction to the subject for students of mathematics and statistics Statistical Rules of Thumb

Gerald van Belle, 2011-09-20 Praise for the First Edition For a beginner this book is a treasure trove for an experienced person it can provide new ideas on how better to pursue the subject of applied statistics Journal of Quality Technology Sensibly organized for quick reference Statistical Rules of Thumb Second Edition compiles simple rules that are widely applicable robust and elegant and each captures key statistical concepts This unique guide to the use of statistics for designing conducting and analyzing research studies illustrates real world statistical applications through examples from

fields such as public health and environmental studies Along with an insightful discussion of the reasoning behind every technique this easy to use handbook also conveys the various possibilities statisticians must think of when designing and conducting a study or analyzing its data Each chapter presents clearly defined rules related to inference covariation experimental design consultation and data representation and each rule is organized and discussed under five succinct headings introduction statement and illustration of the rule the derivation of the rule a concluding discussion and exploration of the concept s extensions The author also introduces new rules of thumb for topics such as sample size for ratio analysis absolute and relative risk ANCOVA cautions and dichotomization of continuous variables Additional features of the Second Edition include Additional rules on Bayesian topics New chapters on observational studies and Evidence Based Medicine EBM Additional emphasis on variation and causation Updated material with new references examples and sources A related Web site provides a rich learning environment and contains additional rules presentations by the author and a message board where readers can share their own strategies and discoveries Statistical Rules of Thumb Second Edition is an ideal supplementary book for courses in experimental design and survey research methods at the upper undergraduate and graduate levels It also serves as an indispensable reference for statisticians researchers consultants and scientists who would like to develop an understanding of the statistical foundations of their research efforts A related website www.vanbelle.org provides additional rules author presentations and more

Batch Effects and Noise in Microarray Experiments

Andreas Scherer,2009-12-14 Batch Effects and Noise in Microarray Experiments Sources and Solutions looks at the issue of technical noise and batch effects in microarray studies and illustrates how to alleviate such factors whilst interpreting the relevant biological information Each chapter focuses on sources of noise and batch effects before starting an experiment with examples of statistical methods for detecting measuring and managing batch effects within and across datasets provided online Throughout the book the importance of standardization and the value of standard operating procedures in the development of genomics biomarkers is emphasized Key Features A thorough introduction to Batch Effects and Noise in Microarray Experiments A unique compilation of review and research articles on handling of batch effects and technical and biological noise in microarray data An extensive overview of current standardization initiatives All datasets and methods used in the chapters as well as colour images are available on www.thebatcheffectbook.org so that the data can be reproduced An exciting compilation of state of the art review chapters and latest research results which will benefit all those involved in the planning execution and analysis of gene expression studies

Methodological Developments in Data Linkage

Katie Harron,Harvey Goldstein,Chris Dibben,2015-09-22 A comprehensive compilation of new developments in data linkage methodology The increasing availability of large administrative databases has led to a dramatic rise in the use of data linkage yet the standard texts on linkage are still those which describe the seminal work from the 1950 60s with some updates Linkage and analysis of data across sources remains problematic due to lack of discriminatory and accurate identifiers

missing data and regulatory issues Recent developments in data linkage methodology have concentrated on bias and analysis of linked data novel approaches to organising relationships between databases and privacy preserving linkage Methodological Developments in Data Linkage brings together a collection of contributions from members of the international data linkage community covering cutting edge methodology in this field It presents opportunities and challenges provided by linkage of large and often complex datasets including analysis problems legal and security aspects models for data access and the development of novel research areas New methods for handling uncertainty in analysis of linked data solutions for anonymised linkage and alternative models for data collection are also discussed Key Features Presents cutting edge methods for a topic of increasing importance to a wide range of research areas with applications to data linkage systems internationally Covers the essential issues associated with data linkage today Includes examples based on real data linkage systems highlighting the opportunities successes and challenges that the increasing availability of linkage data provides Novel approach incorporates technical aspects of both linkage management and analysis of linked data This book will be of core interest to academics government employees data holders data managers analysts and statisticians who use administrative data It will also appeal to researchers in a variety of areas including epidemiology biostatistics social statistics informatics policy and public health

Understanding Uncertainty Dennis V. Lindley, 2013-12-16 Praise for the First Edition a reference for everyone who is interested in knowing and handling uncertainty Journal of Applied Statistics The critically acclaimed First Edition of Understanding Uncertainty provided a study of uncertainty addressed to scholars in all fields showing that uncertainty could be measured by probability and that probability obeyed three basic rules that enabled uncertainty to be handled sensibly in everyday life These ideas were extended to embrace the scientific method and to show how decisions containing an uncertain element could be rationally made Featuring new material the Revised Edition remains the go to guide for uncertainty and decision making providing further applications at an accessible level including A critical study of transitivity a basic concept in probability A discussion of how the failure of the financial sector to use the proper approach to uncertainty may have contributed to the recent recession A consideration of betting showing that a bookmaker's odds are not expressions of probability Applications of the book's thesis to statistics A demonstration that some techniques currently popular in statistics like significance tests may be unsound even seriously misleading because they violate the rules of probability Understanding Uncertainty Revised Edition is ideal for students studying probability or statistics and for anyone interested in one of the most fascinating and vibrant fields of study in contemporary science and mathematics

Fast Sequential Monte Carlo Methods for Counting and Optimization Reuven Y. Rubinstein, Ad Ridder, Radislav Vaisman, 2013-12-04 A comprehensive account of the theory and application of Monte Carlo methods Based on years of research in efficient Monte Carlo methods for estimation of rare event probabilities counting problems and combinatorial optimization Fast Sequential Monte Carlo Methods for Counting and Optimization is a complete illustration of fast sequential

Monte Carlo techniques The book provides an accessible overview of current work in the field of Monte Carlo methods specifically sequential Monte Carlo techniques for solving abstract counting and optimization problems Written by authorities in the field the book places emphasis on cross entropy minimum cross entropy splitting and stochastic enumeration Focusing on the concepts and application of Monte Carlo techniques Fast Sequential Monte Carlo Methods for Counting and Optimization includes Detailed algorithms needed to practice solving real world problems Numerous examples with Monte Carlo method produced solutions within the 1 2% limit of relative error A new generic sequential importance sampling algorithm alongside extensive numerical results An appendix focused on review material to provide additional background information Fast Sequential Monte Carlo Methods for Counting and Optimization is an excellent resource for engineers computer scientists mathematicians statisticians and readers interested in efficient simulation techniques The book is also useful for upper undergraduate and graduate level courses on Monte Carlo methods *Applied Linear Regression* Sanford Weisberg, 2013-11-25 Praise for the Third Edition this is an excellent book which could easily be used as a course text International Statistical Institute The Fourth Edition of Applied Linear Regression provides a thorough update of the basic theory and methodology of linear regression modeling Demonstrating the practical applications of linear regression analysis techniques the Fourth Edition uses interesting real world exercises and examples Stressing central concepts such as model building understanding parameters assessing fit and reliability and drawing conclusions the new edition illustrates how to develop estimation confidence and testing procedures primarily through the use of least squares regression While maintaining the accessible appeal of each previous edition Applied Linear Regression Fourth Edition features Graphical methods stressed in the initial exploratory phase analysis phase and summarization phase of an analysis In depth coverage of parameter estimates in both simple and complex models transformations and regression diagnostics Newly added material on topics including testing ANOVA and variance assumptions Updated methodology such as bootstrapping cross validation binomial and Poisson regression and modern model selection methods Applied Linear Regression Fourth Edition is an excellent textbook for upper undergraduate and graduate level students as well as an appropriate reference guide for practitioners and applied statisticians in engineering business administration economics and the social sciences **Empirical Model Building** James R. Thompson, 2011-11-30 Praise for the First Edition This novel and highly stimulating book which emphasizes solving real problems should be widely read It will have a positive and lasting effect on the teaching of modeling and statistics in general Short Book Reviews This new edition features developments and real world examples that showcase essential empirical modeling techniques Successful empirical model building is founded on the relationship between data and approximate representations of the real systems that generated that data As a result it is essential for researchers who construct these models to possess the special skills and techniques for producing results that are insightful reliable and useful Empirical Model Building Data Models and Reality Second Edition presents a hands on

approach to the basic principles of empirical model building through a shrewd mixture of differential equations computer intensive methods and data The book outlines both classical and new approaches and incorporates numerous real world statistical problems that illustrate modeling approaches that are applicable to a broad range of audiences including applied statisticians and practicing engineers and scientists The book continues to review models of growth and decay systems where competition and interaction add to the complexity of the model while discussing both classical and non classical data analysis methods This Second Edition now features further coverage of momentum based investing practices and resampling techniques showcasing their importance and expediency in the real world The author provides applications of empirical modeling such as computer modeling of the AIDS epidemic to explain why North America has most of the AIDS cases in the First World and data based strategies that allow individual investors to build their own investment portfolios Throughout the book computer based analysis is emphasized and newly added and updated exercises allow readers to test their comprehension of the presented material Empirical Model Building Second Edition is a suitable book for modeling courses at the upper undergraduate and graduate levels It is also an excellent reference for applied statisticians and researchers who carry out quantitative modeling in their everyday work **Matrix Algebra Useful for Statistics** Shayle R.

Searle, 2006-03-20 WILEY INTERSCIENCE PAPERBACK SERIES The Wiley Interscience Paperback Series consists of selected books that have been made more accessible to consumers in an effort to increase global appeal and general circulation With these new unabridged softcover volumes Wiley hopes to extend the lives of these works by making them available to future generations of statisticians, mathematicians and scientists This book is intended to teach useful matrix algebra to students, teachers, consultants, researchers and practitioners in statistics and other quantitative methods The author concentrates on practical matters and writes in a friendly and informal style this is a useful and enjoyable book to have at hand Biometrics This book is an easy to understand guide to matrix algebra and its uses in statistical analysis The material is presented in an explanatory style rather than the formal theorem proof format This self contained text includes numerous applied illustrations, numerical examples and exercises **Applied Logistic Regression** David W. Hosmer, Jr., Stanley

Lemeshow, Rodney X. Sturdivant, 2013-04-01 A new edition of the definitive guide to logistic regression modeling for health science and other applications This thoroughly expanded Third Edition provides an easily accessible introduction to the logistic regression LR model and highlights the power of this model by examining the relationship between a dichotomous outcome and a set of covariables Applied Logistic Regression Third Edition emphasizes applications in the health sciences and handpicks topics that best suit the use of modern statistical software The book provides readers with state of the art techniques for building, interpreting and assessing the performance of LR models New and updated features include A chapter on the analysis of correlated outcome data A wealth of additional material for topics ranging from Bayesian methods to assessing model fit Rich data sets from real world studies that demonstrate each method under discussion Detailed

examples and interpretation of the presented results as well as exercises throughout Applied Logistic Regression Third Edition is a must have guide for professionals and researchers who need to model nominal or ordinal scaled outcome variables in public health medicine and the social sciences as well as a wide range of other fields and disciplines *Using the Weibull Distribution* John I. McCool, 2012-08-06 Understand and utilize the latest developments in Weibull inferential methods While the Weibull distribution is widely used in science and engineering most engineers do not have the necessary statistical training to implement the methodology effectively Using the Weibull Distribution Reliability Modeling and Inference fills a gap in the current literature on the topic introducing a self contained presentation of the probabilistic basis for the methodology while providing powerful techniques for extracting information from data The author explains the use of the Weibull distribution and its statistical and probabilistic basis providing a wealth of material that is not available in the current literature The book begins by outlining the fundamental probability and statistical concepts that serve as a foundation for subsequent topics of coverage including Optimum burn in age and block replacement warranties and renewal theory Exact inference in Weibull regression Goodness of fit testing and distinguishing the Weibull from the lognormal Inference for the Three Parameter Weibull Throughout the book a wealth of real world examples showcases the discussed topics and each chapter concludes with a set of exercises allowing readers to test their understanding of the presented material In addition a related website features the author's own software for implementing the discussed analyses along with a set of modules written in Mathcad and additional graphical interface software for performing simulations With its numerous hands on examples exercises and software applications Using the Weibull Distribution is an excellent book for courses on quality control and reliability engineering at the upper undergraduate and graduate levels The book also serves as a valuable reference for engineers scientists and business analysts who gather and interpret data that follows the Weibull distribution [Statistical Methods in Diagnostic Medicine](#) Xiao-Hua Zhou, Nancy A. Obuchowski, Donna K.

McClish, 2014-08-21 Praise for the First Edition the book is a valuable addition to the literature in the field serving as a much needed guide for both clinicians and advanced students Zentralblatt MATH A new edition of the cutting edge guide to diagnostic tests in medical research In recent years a considerable amount of research has focused on evolving methods for designing and analyzing diagnostic accuracy studies Statistical Methods in Diagnostic Medicine Second Edition continues to provide a comprehensive approach to the topic guiding readers through the necessary practices for understanding these studies and generalizing the results to patient populations Following a basic introduction to measuring test accuracy and study design the authors successfully define various measures of diagnostic accuracy describe strategies for designing diagnostic accuracy studies and present key statistical methods for estimating and comparing test accuracy Topics new to the Second Edition include Methods for tests designed to detect and locate lesions Recommendations for covariate adjustment Methods for estimating and comparing predictive values and sample size calculations Correcting techniques for

verification and imperfect standard biases Sample size calculation for multiple reader studies when pilot data are available Updated meta analysis methods now incorporating random effects Three case studies thoroughly showcase some of the questions and statistical issues that arise in diagnostic medicine with all associated data provided in detailed appendices A related web site features Fortran SAS and R software packages so that readers can conduct their own analyses Statistical Methods in Diagnostic Medicine Second Edition is an excellent supplement for biostatistics courses at the graduate level It also serves as a valuable reference for clinicians and researchers working in the fields of medicine epidemiology and biostatistics

Handbook of Monte Carlo Methods Dirk P. Kroese, Thomas Taimre, Zdravko I. Botev, 2013-06-06 A comprehensive overview of Monte Carlo simulation that explores the latest topics techniques and real world applications More and more of today's numerical problems found in engineering and finance are solved through Monte Carlo methods The heightened popularity of these methods and their continuing development makes it important for researchers to have a comprehensive understanding of the Monte Carlo approach Handbook of Monte Carlo Methods provides the theory algorithms and applications that helps provide a thorough understanding of the emerging dynamics of this rapidly growing field The authors begin with a discussion of fundamentals such as how to generate random numbers on a computer Subsequent chapters discuss key Monte Carlo topics and methods including Random variable and stochastic process generation Markov chain Monte Carlo featuring key algorithms such as the Metropolis Hastings method the Gibbs sampler and hit and run Discrete event simulation Techniques for the statistical analysis of simulation data including the delta method steady state estimation and kernel density estimation Variance reduction including importance sampling latin hypercube sampling and conditional Monte Carlo Estimation of derivatives and sensitivity analysis Advanced topics including cross entropy rare events kernel density estimation quasi Monte Carlo particle systems and randomized optimization The presented theoretical concepts are illustrated with worked examples that use MATLAB a related Web site houses the MATLAB code allowing readers to work hands on with the material and also features the author's own lecture notes on Monte Carlo methods Detailed appendices provide background material on probability theory stochastic processes and mathematical statistics as well as the key optimization concepts and techniques that are relevant to Monte Carlo simulation Handbook of Monte Carlo Methods is an excellent reference for applied statisticians and practitioners working in the fields of engineering and finance who use or would like to learn how to use Monte Carlo in their research It is also a suitable supplement for courses on Monte Carlo methods and computational statistics at the upper undergraduate and graduate levels

[The EM Algorithm and Extensions](#) Geoffrey J. McLachlan, Thiriyambakam Krishnan, 2008-03-31 The only single source now completely updated and revised to offer a unified treatment of the theory methodology and applications of the EM algorithm Complete with updates that capture developments from the past decade The EM Algorithm and Extensions Second Edition successfully provides a basic understanding of the EM algorithm by describing its inception implementation

and applicability in numerous statistical contexts In conjunction with the fundamentals of the topic the authors discuss convergence issues and computation of standard errors and in addition unveil many parallels and connections between the EM algorithm and Markov chain Monte Carlo algorithms Thorough discussions on the complexities and drawbacks that arise from the basic EM algorithm such as slow convergence and lack of an in built procedure to compute the covariance matrix of parameter estimates are also presented While the general philosophy of the First Edition has been maintained this timely new edition has been updated revised and expanded to include New chapters on Monte Carlo versions of the EM algorithm and generalizations of the EM algorithm New results on convergence including convergence of the EM algorithm in constrained parameter spaces Expanded discussion of standard error computation methods such as methods for categorical data and methods based on numerical differentiation Coverage of the interval EM which locates all stationary points in a designated region of the parameter space Exploration of the EM algorithm s relationship with the Gibbs sampler and other Markov chain Monte Carlo methods Plentiful pedagogical elements chapter introductions lists of examples author and subject indices computer drawn graphics and a related Web site The EM Algorithm and Extensions Second Edition serves as an excellent text for graduate level statistics students and is also a comprehensive resource for theoreticians practitioners and researchers in the social and physical sciences who would like to extend their knowledge of the EM algorithm

Periodically Correlated Random Sequences Harry L. Hurd, Abolghassem Miamee, 2007-10-05 Uniquely combining theory application and computing this book explores the spectral approach to time series analysis The use of periodically correlated or cyclostationary processes has become increasingly popular in a range of research areas such as meteorology climate communications economics and machine diagnostics Periodically Correlated Random Sequences presents the main ideas of these processes through the use of basic definitions along with motivating insightful and illustrative examples Extensive coverage of key concepts is provided including second order theory Hilbert spaces Fourier theory and the spectral theory of harmonizable sequences The authors also provide a paradigm for nonparametric time series analysis including tests for the presence of PC structures Features of the book include An emphasis on the link between the spectral theory of unitary operators and the correlation structure of PC sequences A discussion of the issues relating to nonparametric time series analysis for PC sequences including estimation of the mean correlation and spectrum A balanced blend of historical background with modern application specific references to periodically correlated processes An accompanying Web site that features additional exercises as well as data sets and programs written in MATLAB for performing time series analysis on data that may have a PC structure Periodically Correlated Random Sequences is an ideal text on time series analysis for graduate level statistics and engineering students who have previous experience in second order stochastic processes Hilbert space vector spaces random processes and probability This book also serves as a valuable reference for research statisticians and practitioners in areas of probability and statistics such as time series analysis stochastic processes and prediction theory

A Matrix Handbook for Statisticians George A. F. Seber, 2008-01-07 A comprehensive must have handbook of matrix methods with a unique emphasis on statistical applications This timely book A Matrix Handbook for Statisticians provides a comprehensive encyclopedic treatment of matrices as they relate to both statistical concepts and methodologies Written by an experienced authority on matrices and statistical theory this handbook is organized by topic rather than mathematical developments and includes numerous references to both the theory behind the methods and the applications of the methods A uniform approach is applied to each chapter which contains four parts a definition followed by a list of results a short list of references to related topics in the book one or more references to proofs and references to applications The use of extensive cross referencing to topics within the book and external referencing to proofs allows for definitions to be located easily as well as interrelationships among subject areas to be recognized A Matrix Handbook for Statisticians addresses the need for matrix theory topics to be presented together in one book and features a collection of topics not found elsewhere under one cover These topics include Complex matrices A wide range of special matrices and their properties Special products and operators such as the Kronecker product Partitioned and patterned matrices Matrix analysis and approximation Matrix optimization Majorization Random vectors and matrices Inequalities such as probabilistic inequalities Additional topics such as rank eigenvalues determinants norms generalized inverses linear and quadratic equations differentiation and Jacobians are also included The book assumes a fundamental knowledge of vectors and matrices maintains a reasonable level of abstraction when appropriate and provides a comprehensive compendium of linear algebra results with use or potential use in statistics A Matrix Handbook for Statisticians is an essential one of a kind book for graduate level courses in advanced statistical studies including linear and nonlinear models multivariate analysis and statistical computing It also serves as an excellent self study guide for statistical researchers

Modern Experimental Design Thomas P. Ryan, 2006-12-22 A complete and well balanced introduction to modern experimental design Using current research and discussion of the topic along with clear applications Modern Experimental Design highlights the guiding role of statistical principles in experimental design construction This text can serve as both an applied introduction as well as a concise review of the essential types of experimental designs and their applications Topical coverage includes designs containing one or multiple factors designs with at least one blocking factor split unit designs and their variations as well as supersaturated and Plackett Burman designs In addition the text contains extensive treatment of Conditional effects analysis as a proposed general method of analysis Multiresponse optimization Space filling designs including Latin hypercube and uniform designs Restricted regions of operability and debarred observations Analysis of Means ANOM used to analyze data from various types of designs The application of available software including Design Expert JMP and MINITAB This text provides thorough coverage of the topic while also introducing the reader to new approaches Using a large number of references with detailed analyses of datasets Modern Experimental Design works as a well rounded learning tool for beginners as well as a valuable resource for

practitioners *Statistics for Imaging, Optics, and Photonics* Peter Bajorski, 2011-10-17 A vivid hands on discussion of the statistical methods in imaging optics and photonics applications In the field of imaging science there is a growing need for students and practitioners to be equipped with the necessary knowledge and tools to carry out quantitative analysis of data Providing a self contained approach that is not too heavily statistical in nature *Statistics for Imaging Optics and Photonics* presents necessary analytical techniques in the context of real examples from various areas within the field including remote sensing color science printing and astronomy Bridging the gap between imaging optics photonics and statistical data analysis the author uniquely concentrates on statistical inference providing a wide range of relevant methods Brief introductions to key probabilistic terms are provided at the beginning of the book in order to present the notation used followed by discussions on multivariate techniques such as Linear regression models vector and matrix algebra and random vectors and matrices Multivariate statistical inference including inferences about both mean vectors and covariance matrices Principal components analysis Canonical correlation analysis Discrimination and classification analysis for two or more populations and spatial smoothing Cluster analysis including similarity and dissimilarity measures and hierarchical and nonhierarchical clustering methods Intuitive and geometric understanding of concepts is emphasized and all examples are relatively simple and include background explanations Computational results and graphs are presented using the freely available R software and can be replicated by using a variety of software packages Throughout the book problem sets and solutions contain partial numerical results allowing readers to confirm the accuracy of their approach and a related website features additional resources including the book's datasets and figures *Statistics for Imaging Optics and Photonics* is an excellent book for courses on multivariate statistics for imaging science optics and photonics at the upper undergraduate and graduate levels The book also serves as a valuable reference for professionals working in imaging optics and photonics who carry out data analyses in their everyday work

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