
Mastering Metrics The Path From Cause To Effect

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Mastering 'Metrics

The Path from Cause to Effect *Princeton University Press*

An accessible and fun guide to the essential tools of econometric research Applied econometrics, known to aficionados as 'metrics, is the original data science. 'Metrics encompasses the statistical methods economists use to untangle cause and effect in human affairs. Through accessible discussion and with a dose of kung fu-themed humor, Mastering 'Metrics presents the essential tools of econometric research and demonstrates why econometrics is exciting and useful. The five most valuable econometric methods, or what the authors call the Furious Five--random assignment, regression, instrumental variables, regression discontinuity designs, and differences in differences--are illustrated through well-crafted real-world examples (vetted for awesomeness by Kung Fu Panda's Jade Palace). Does health insurance make you healthier? Randomized experiments provide answers. Are expensive private colleges and selective public high schools better than more pedestrian institutions? Regression analysis and a regression discontinuity design reveal the surprising truth. When private banks teeter, and depositors take their money and run, should central banks step in to save them? Differences-in-differences analysis of a Depression-era banking crisis offers a response. Could arresting

O. J. Simpson have saved his ex-wife's life? Instrumental variables methods instruct law enforcement authorities in how best to respond to domestic abuse. Wielding econometric tools with skill and confidence, Mastering 'Metrics uses data and statistics to illuminate the path from cause to effect. Shows why econometrics is important Explains econometric research through humorous and accessible discussion Outlines empirical methods central to modern econometric practice Works through interesting and relevant real-world examples

Mastering 'Metrics

The Path from Cause to Effect *Princeton University Press*

Applied econometrics, known to aficionados as 'metrics, is the original data science. 'Metrics encompasses the statistical methods economists use to untangle cause and effect in human affairs. Through accessible discussion and with a dose of kung fu-themed humor, Mastering 'Metrics presents the essential tools of econometric research and demonstrates why econometrics is exciting and useful. The five most valuable econometric methods, or what the authors call the Furious Five--random assignment, regression, instrumental variables, regression discontinuity designs, and differences in differences--are illustrated through well-crafted real-world examples (vetted for awesomeness by Kung Fu Panda's Jade Palace). Does health insurance make you healthier? Randomized experiments provide answers. Are expensive private colleges and selective public high schools better than more pedestrian institutions? Regression analysis and a regression discontinuity design reveal the surprising truth. When private banks

teeter, and depositors take their money and run, should central banks step in to save them? Differences-in-differences analysis of a Depression-era banking crisis offers a response. Could arresting O. J. Simpson have saved his ex-wife's life? Instrumental variables methods instruct law enforcement authorities in how best to respond to domestic abuse. Wielding econometric tools with skill and confidence, Mastering 'Metrics uses data and statistics to illuminate the path from cause to effect. Shows why econometrics is important Explains econometric research through humorous and accessible discussion Outlines empirical methods central to modern econometric practice Works through interesting and relevant real-world examples

Mastering 'metrics

The Path from Cause to Effect

Mostly Harmless Econometrics

An Empiricist's Companion *Princeton University Press*

In addition to econometric essentials, this book covers important new extensions as well as how to get standard errors right. The authors explain why fancier econometric techniques are typically unnecessary and even dangerous.

Mastering 'Metrics (ARC)

The Path from Cause to Effect

Applied econometrics, known to aficionados as 'metrics, is the original data science. 'Metrics encompasses the statistical methods economists use to untangle cause and effect in human affairs. Through accessible discussion and with a dose of kung fu-themed

humor, Mastering 'Metrics presents the essential tools of econometric research and demonstrates why econometrics is exciting and useful. The five most valuable econometric methods, or what the authors call the Furious Five--random assignment, regression, instrumental variables, regression discontinuity designs, and differences in differences--

Econometrics For Dummies *John Wiley & Sons*

Score your highest in econometrics? Easy. Econometrics can prove challenging for many students unfamiliar with the terms and concepts discussed in a typical econometrics course. Econometrics For Dummies eliminates that confusion with easy-to-understand explanations of important topics in the study of economics. Econometrics For Dummies breaks down this complex subject and provides you with an easy-to-follow course supplement to further refine your understanding of how econometrics works and how it can be applied in real-world situations. An excellent resource for anyone participating in a college or graduate level econometrics course Provides you with an easy-to-follow introduction to the techniques and applications of econometrics Helps you score high on exam day If you're seeking a degree in economics and looking for a plain-English guide to this often-intimidating course, Econometrics For Dummies has you covered.

Causal Inference *Yale University Press*

An accessible, contemporary introduction to the methods for determining cause and effect in the social sciences "Causation versus correlation has been the basis of arguments--economic and otherwise--

since the beginning of time. Causal Inference: The Mixtape uses legit real-world examples that I found genuinely thought-provoking. It's rare that a book prompts readers to expand their outlook; this one did for me."--Marvin Young (Young MC) Causal inference encompasses the tools that allow social scientists to determine what causes what. In a messy world, causal inference is what helps establish the causes and effects of the actions being studied--for example, the impact (or lack thereof) of increases in the minimum wage on employment, the effects of early childhood education on incarceration later in life, or the influence on economic growth of introducing malaria nets in developing regions. Scott Cunningham introduces students and practitioners to the methods necessary to arrive at meaningful answers to the questions of causation, using a range of modeling techniques and coding instructions for both the R and the Stata programming languages.

Teaching Economics

Perspectives on Innovative Economics Education *Springer*

This book looks at a number of topics in economic education, presenting multiple perspectives from those in the field to anyone interested in teaching economics. Using anecdotes, classroom experiments and surveys, the contributing authors show that, with some different or new techniques, teaching economics can be more engaging for students and help them better retain what they learned. Chapters cover a wide range of approaches to teaching economics, from interactive approaches such as utilizing video games and Econ Beats, to more

rigorous examinations of government policies, market outcomes and exploring case studies from specific courses. Many of the chapters incorporate game theory and provide worked out examples of games designed to help students with intuitive retention of the material, and these games can be replicated in any economics classroom. While the exercises are geared towards college-level economics students, instructors can draw inspiration for course lectures from the various approaches taken here and utilize them at any level of teaching. This book will be very useful to instructors in economics interested in bringing innovative teaching methods into the classroom.

The Effect

An Introduction to Research Design and Causality *CRC Press*

The Effect: An Introduction to Research Design and Causality is about research design, specifically concerning research that uses observational data to make a causal inference. It is separated into two halves, each with different approaches to that subject. The first half goes through the concepts of causality, with very little in the way of estimation. It introduces the concept of identification thoroughly and clearly and discusses it as a process of trying to isolate variation that has a causal interpretation. Subjects include heavy emphasis on data-generating processes and causal diagrams. Concepts are demonstrated with a heavy emphasis on graphical intuition and the question of what we do to data. When we "add a control variable" what does that actually do? Key Features: • Extensive code examples in R, Stata, and Python • Chapters on overlooked topics in

econometrics classes: heterogeneous treatment effects, simulation and power analysis, new cutting-edge methods, and uncomfortable ignored assumptions • An easy-to-read conversational tone • Up-to-date coverage of methods with fast-moving literatures like difference-in-differences

The Goldilocks Challenge

Right-Fit Evidence for the Social Sector *Oxford University Press*

The social sector provides services to a wide range of people throughout the world with the aim of creating social value. While doing good is great, doing it well is even better. These organizations, whether nonprofit, for-profit, or public, increasingly need to demonstrate that their efforts are making a positive impact on the world, especially as competition for funding and other scarce resources increases. This heightened focus on impact is positive: learning whether we are making a difference enhances our ability to address pressing social problems effectively and is critical to wise stewardship of resources. Yet demonstrating efficacy remains a big hurdle for most organizations. The Goldilocks Challenge provides a parsimonious framework for measuring the strategies and impact of social sector organizations. A good data strategy starts first with a sound theory of change that helps organizations decide what elements they should monitor and measure. With a theory of change providing solid underpinning, the Goldilocks framework then puts forward four key principles, the CART principles: Credible data that are high quality and analyzed appropriately, Actionable data will actually influence future decisions; Responsible data create more benefits

than costs; and Transportable data build knowledge that can be used in the future and by others. Mary Kay Gugerty and Dean Karlan combine their extensive experience working with nonprofits, for-profits and government with their understanding of measuring effectiveness in this insightful guide to thinking about and implementing evidence-based change. This book is an invaluable asset for nonprofit, social enterprise and government leaders, managers, and funders-including anyone considering making a charitable contribution to a nonprofit-to ensure that these organizations get it "just right" by knowing what data to collect, how to collect it, how it can be analyzed, and drawing implications from the analysis. Everyone who wants to make positive change should focus on the top priority: using data to learn, innovate, and improve program implementation over time. Gugerty and Karlan show how.

Running Randomized Evaluations

A Practical Guide *Princeton University Press*

This book provides a comprehensive yet accessible guide to running randomized impact evaluations of social programs. Drawing on the experience of researchers at the Abdul Latif Jameel Poverty Action Lab, which has run hundreds of such evaluations in dozens of countries throughout the world, it offers practical insights on how to use this powerful technique, especially in resource-poor environments. This step-by-step guide explains why and when randomized evaluations are useful, in what situations they should be used, and how to prioritize different evaluation opportunities. It shows how to design and analyze studies that answer

important questions while respecting the constraints of those working on and benefiting from the program being evaluated. The book gives concrete tips on issues such as improving the quality of a study despite tight budget constraints, and demonstrates how the results of randomized impact evaluations can inform policy. With its self-contained modules, this one-of-a-kind guide is easy to navigate. It also includes invaluable references and a checklist of the common pitfalls to avoid. Provides the most up-to-date guide to running randomized evaluations of social programs, especially in developing countries Offers practical tips on how to complete high-quality studies in even the most challenging environments Self-contained modules allow for easy reference and flexible teaching and learning Comprehensive yet nontechnical

Mastering Leadership

An Integrated Framework for Breakthrough Performance and Extraordinary Business Results *John Wiley & Sons*

Is your leadership a competitive advantage, or is it costing you? How do you know? Are you developing your leadership effectiveness at the pace of change? For most leaders today, complexity is outpacing their personal and collective development. Most leaders are in over their heads, whether they know it or not. The most successful organizations over time are the best led. While this has always been true, today escalating global complexity puts leadership effectiveness at a premium. Mastering Leadership involves developing the effectiveness of leaders—individually and

collectively—and turning that leadership into a competitive advantage. This comprehensive roadmap for optimal leadership features: Breakthrough research that connects increased leadership effectiveness with enhanced business performance The first fully integrated Universal Model of Leadership—one that integrates the best theory and research in the fields of Leadership and Organizational Development over the last half century A free, online self-assessment of your leadership, using the Leadership Circle Profile, visibly outlining how you are currently leading and how to develop even greater effectiveness The five stages in the evolution of leadership—Egocentric, Reactive, Creative, Integral, and Unitive—along with the organizational structures and cultures that develop at each of these stages Six leadership practices for evolving your leadership capability at a faster pace A map of your optimal path to greater leadership effectiveness Case stories that facilitate pragmatic application of this Leadership Development System to your particular situation This timeless, authoritative text provides a systemic approach for developing your senior leaders and the leadership system of your organization. It does not recommend quick fixes, but argues that real development requires a strategic, long-term, and integrated approach in order to forge more effective leaders and enhanced business performance. Mastering Leadership offers a developmental pathway to bring forth the highest and best use of yourself, your life, and your leadership. By more meaningfully deploying all of who you are every day, individually and collectively, you will achieve a leadership legacy consistent with your

highest aspirations.

Introduction to Econometrics

Ensure students grasp the relevance of econometrics with *Introduction to Econometrics* -- the text that connects modern theory and practice with motivating, engaging applications. The 4th Edition maintains a focus on currency, while building on the philosophy that applications should drive the theory, not the other way around. The text incorporates real-world questions and data, and methods that are immediately relevant to the applications. With very large data sets increasingly being used in economics and related fields, a new chapter dedicated to Big Data helps students learn about this growing and exciting area. This coverage and approach make the subject come alive for students and helps them to become sophisticated consumers of econometrics. -Publisher's description.

A Guide to Econometrics *John Wiley & Sons*

This is the perfect (and essential) supplement for all econometrics classes--from a rigorous first undergraduate course, to a first master's, to a PhD course. Explains what is going on in textbooks full of proofs and formulas Offers intuition, skepticism, insights, humor, and practical advice (dos and don'ts) Contains new chapters that cover instrumental variables and computational considerations Includes additional information on GMM, nonparametrics, and an introduction to wavelets

Essentials of Applied Econometrics *Univ of California Press*

Essentials of Applied Econometrics

prepares students for a world in which more data surround us every day and in which econometric tools are put to diverse uses. Written for students in economics and for professionals interested in continuing an education in econometrics, this succinct text not only teaches best practices and state-of-the-art techniques, but uses vivid examples and data obtained from a variety of real world sources. The book's emphasis on application uniquely prepares the reader for today's econometric work, which can include analyzing causal relationships or correlations in big data to obtain useful insights.

Microeconometrics

Methods and Applications *Cambridge University Press*

This book provides the most comprehensive treatment to date of microeconometrics, the analysis of individual-level data on the economic behavior of individuals or firms using regression methods for cross section and panel data. The book is oriented to the practitioner. A basic understanding of the linear regression model with matrix algebra is assumed. The text can be used for a microeconometrics course, typically a second-year economics PhD course; for data-oriented applied microeconometrics field courses; and as a reference work for graduate students and applied researchers who wish to fill in gaps in their toolkit. Distinguishing features of the book include emphasis on nonlinear models and robust inference, simulation-based estimation, and problems of complex survey data. The book makes frequent use of numerical examples based on generated data to illustrate the key models and methods. More substantially, it systematically

integrates into the text empirical illustrations based on seven large and exceptionally rich data sets.

Introduction to Econometrics *Oxford University Press, USA*

Econometrics, the application of statistical principles to the quantification of economic models, is a compulsory component of European economics degrees. This text provides an introduction to this complex topic for students who are not outstandingly proficient in mathematics. It does this by providing the student with an analytical and an intuitive understanding of the classical linear regression model. Mathematical notation is kept simple and step-by-step verbal explanations of mathematical proofs are provided to facilitate a full understanding of the subject. The text also contains a large number of practical exercises for students to follow up and practice what they have learnt. Originally published in the USA, this new edition has been substantially updated and revised with the inclusion of new material on specification tests, binary choice models, tobit analysis, sample selection bias, nonstationary time series, and unit root tests and basic cointegration. The new edition is also accompanied by a website with Powerpoint slideshows giving a parallel graphical treatment of topics treated in the book, cross-section and time series data sets, manuals for practical exercises, and lecture notes extending the text.

Mastering Market Analytics

Business Metrics - Practice and Application *Emerald Group Publishing*
In *Mastering Market Analytics*, Robert Kozielski presents various measurement

systems and marketing metrics, along with common mistakes made by organizations and managers in the process of measuring business activities, and illustrates how to avoid these mistakes. The new turbulent business environment has resulted in the decrease in effectiveness and efficiency of marketing activities, resulting in 50% of campaigns in social media remaining unnoticed by the public in 2016 alone. Response rates on emailing campaigns have dropped, one dollar invested in TV advertising generates only .32 cents of return, which all leaves the question of whether these activities are still effective in the contemporary world. What does effective marketing actually mean and which areas can be measured while assessing organizational effectiveness? Do sales and marketing benefit only the company or do they also generate value for customers? With over twenty years of experience in world markets, Kozielski takes lessons and case studies from Eastern Europe to delve into 76 indicators, divided into four groups: sales, distribution, marketing communication, and ecommerce and social media, exploring from both the strategic and operational points of view. Linking applicable descriptions of the metrics with systems of measurement for these marketing activities and results, Kozielski's work is of interest to marketing scholars and MBA students.

Mastering Machine Learning with scikit-learn *Packt Publishing Ltd*

Use scikit-learn to apply machine learning to real-world problems About This Book Master popular machine learning models including k-nearest neighbors, random forests, logistic regression, k-means, naive Bayes, and artificial neural networks Learn how to

build and evaluate performance of efficient models using scikit-learn

Practical guide to master your basics and learn from real life applications of machine learning

Who This Book Is For

This book is intended for software engineers who want to understand how common machine learning algorithms work and develop an intuition for how to use them, and for data scientists who want to learn about the scikit-learn API. Familiarity with machine learning fundamentals and Python are helpful, but not required.

What You Will Learn

- Review fundamental concepts such as bias and variance
- Extract features from categorical variables, text, and images
- Predict the values of continuous variables using linear regression and K Nearest Neighbors
- Classify documents and images using logistic regression and support vector machines
- Create ensembles of estimators using bagging and boosting techniques
- Discover hidden structures in data using K-Means clustering
- Evaluate the performance of machine learning systems in common tasks

In Detail

Machine learning is the buzzword bringing computer science and statistics together to build smart and efficient models. Using powerful algorithms and techniques offered by machine learning you can automate any analytical model. This book examines a variety of machine learning models including popular machine learning algorithms such as k-nearest neighbors, logistic regression, naive Bayes, k-means, decision trees, and artificial neural networks. It discusses data preprocessing, hyperparameter optimization, and ensemble methods. You will build systems that classify documents, recognize images, detect ads, and more. You will learn to use scikit-learn's API to extract features from

categorical variables, text and images; evaluate model performance, and develop an intuition for how to improve your model's performance. By the end of this book, you will master all required concepts of scikit-learn to build efficient models at work to carry out advanced tasks with the practical approach.

Style and approach

This book is motivated by the belief that you do not understand something until you can describe it simply. Work through toy problems to develop your understanding of the learning algorithms and models, then apply your learnings to real-life problems.

Mastering Distributed Tracing

Analyzing performance in microservices and complex systems

Packt Publishing Ltd

Understand how to apply distributed tracing to microservices-based architectures

Key Features

- A thorough conceptual introduction to distributed tracing
- An exploration of the most important open standards in the space
- A how-to guide for code instrumentation and operating a tracing infrastructure

Book Description

Mastering Distributed Tracing will equip you to operate and enhance your own tracing infrastructure. Through practical exercises and code examples, you will learn how end-to-end tracing can be used as a powerful application performance management and comprehension tool. The rise of Internet-scale companies, like Google and Amazon, ushered in a new era of distributed systems operating on thousands of nodes across multiple data centers. Microservices increased that complexity, often exponentially. It is harder to debug these systems, track down failures, detect bottlenecks, or

even simply understand what is going on. Distributed tracing focuses on solving these problems for complex distributed systems. Today, tracing standards have developed and we have much faster systems, making instrumentation less intrusive and data more valuable. Yuri Shkuro, the creator of Jaeger, a popular open-source distributed tracing system, delivers end-to-end coverage of the field in *Mastering Distributed Tracing*. Review the history and theoretical foundations of tracing; solve the data gathering problem through code instrumentation, with open standards like OpenTracing, W3C Trace Context, and OpenCensus; and discuss the benefits and applications of a distributed tracing infrastructure for understanding, and profiling, complex systems. What you will learn How to get started with using a distributed tracing system How to get the most value out of end-to-end tracing Learn about open standards in the space Learn about code instrumentation and operating a tracing infrastructure Learn where distributed tracing fits into microservices as a core function Who this book is for Any developer interested in testing large systems will find this book very revealing and in places, surprising. Every microservice architect and developer should have an insight into distributed tracing, and the book will help them on their way. System administrators with some development skills will also benefit. No particular programming language skills are required, although an ability to read Java, while non-essential, will help with the core chapters.

Can't Hurt Me

Master Your Mind and Defy the Odds - Clean Edition *David Goggins*

New York Times Bestseller Over 2.5 million copies sold For David Goggins, childhood was a nightmare - poverty, prejudice, and physical abuse colored his days and haunted his nights. But through self-discipline, mental toughness, and hard work, Goggins transformed himself from a depressed, overweight young man with no future into a U.S. Armed Forces icon and one of the world's top endurance athletes. The only man in history to complete elite training as a Navy SEAL, Army Ranger, and Air Force Tactical Air Controller, he went on to set records in numerous endurance events, inspiring *Outside* magazine to name him The Fittest (Real) Man in America. In this curse-word-free edition of *Can't Hurt Me*, he shares his astonishing life story and reveals that most of us tap into only 40% of our capabilities. Goggins calls this The 40% Rule, and his story illuminates a path that anyone can follow to push past pain, demolish fear, and reach their full potential.

Introductory Econometrics: A Modern Approach *Cengage Learning*

Discover how empirical researchers today actually think about and apply econometric methods with the practical, professional approach in Wooldridge's **INTRODUCTORY ECONOMETRICS: A MODERN APPROACH**, 6E. Unlike traditional books, this unique presentation demonstrates how econometrics has moved beyond just a set of abstract tools to become genuinely useful for answering questions in business, policy evaluation, and forecasting environments. **INTRODUCTORY ECONOMETRICS** is organized around the type of data being analyzed with a systematic approach that only introduces assumptions as they

are needed. This makes the material easier to understand and, ultimately, leads to better econometric practices. Packed with timely, relevant applications, the book introduces the latest emerging developments in the field. Gain a full understanding of the impact of econometrics in real practice today with the insights and applications found only in **INTRODUCTORY ECONOMETRICS: A MODERN APPROACH**, 6E. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Mastering Clojure Data Analysis
Packt Publishing Ltd

This book consists of a practical, example-oriented approach that aims to help you learn how to use Clojure for data analysis quickly and efficiently. This book is great for those who have experience with Clojure and need to use it to perform data analysis. This book will also be hugely beneficial for readers with basic experience in data analysis and statistics.

Strengthening Forensic Science in the United States

A Path Forward *National Academies Press*

Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent

application. **Strengthening Forensic Science in the United States: A Path Forward** provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. **Strengthening Forensic Science in the United States** gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

Health Econometrics Using Stata

Health Econometrics Using Stata by Partha Deb, Edward C. Norton, and Willard G. Manning provides an excellent overview of the methods used to analyze data on healthcare expenditure and use. Aimed at researchers, graduate students, and practitioners, this book introduces readers to widely used methods, shows them how to perform these methods in Stata, and illustrates how to interpret the results. Each method is discussed in the context of an example using an extract from the Medical Expenditure Panel Survey. After the overview chapters, the book

provides excellent introductions to a series of topics aimed specifically at those analyzing healthcare expenditure and use data. The basic topics of linear regression, the generalized linear model, and log and Box-Cox models are covered with a tight focus on the problems presented by these data. Using this foundation, the authors cover the more advanced topics of models for continuous outcome with mass points, count models, and models for heterogeneous effects. Finally, they discuss endogeneity and how to address inference questions using data from complex surveys. The authors use their formidable experience to guide readers toward useful methods and away from less recommended ones. Their discussion of "health econometric myths" and the chapter presenting a framework for approaching health econometric estimation problems are especially useful for this aspect. , count models, and models for heterogeneous effects. Finally, they discuss endogeneity and how to address inference questions using data from complex surveys. The authors use their formidable experience to guide readers toward useful methods and away from less recommended ones. Their discussion of "health econometric myths" and the chapter presenting a framework for approaching health econometric estimation problems are especially useful for this aspect.

Anticipating Correlations

A New Paradigm for Risk Management *Princeton University Press*
Financial markets respond to information virtually instantaneously. Each new piece of information influences the prices of assets and their correlations with each other, and as the system

rapidly changes, so too do correlation forecasts. This fast-evolving environment presents econometricians with the challenge of forecasting dynamic correlations, which are essential inputs to risk measurement, portfolio allocation, derivative pricing, and many other critical financial activities. In *Anticipating Correlations*, Nobel Prize-winning economist Robert Engle introduces an important new method for estimating correlations for large systems of assets: Dynamic Conditional Correlation (DCC). Engle demonstrates the role of correlations in financial decision making, and addresses the economic underpinnings and theoretical properties of correlations and their relation to other measures of dependence. He compares DCC with other correlation estimators such as historical correlation, exponential smoothing, and multivariate GARCH, and he presents a range of important applications of DCC. Engle presents the asymmetric model and illustrates it using a multicountry equity and bond return model. He introduces the new FACTOR DCC model that blends factor models with the DCC to produce a model with the best features of both, and illustrates it using an array of U.S. large-cap equities. Engle shows how overinvestment in collateralized debt obligations, or CDOs, lies at the heart of the subprime mortgage crisis--and how the correlation models in this book could have foreseen the risks. A technical chapter of econometric results also is included. Based on the Econometric and Tinbergen Institutes Lectures, *Anticipating Correlations* puts powerful new forecasting tools into the hands of researchers, financial analysts, risk managers, derivative quants, and graduate students.

Competitive Solutions

The Strategist's Toolkit *Princeton University Press*

Competitive Solutions is an entertaining and wideranging introduction to successful business methods applied to a variety of real-world situations. Rejecting the one-size-fits-all premise that underlies so many guides to business strategy, Preston McAfee develops the intellectual tools and insights needed to confront many marketplace problems. Drawing on his broad experience as a consultant for major U.S. companies, as well as extensive research, McAfee emphasizes cooperation, pricing, litigation, and antitrust as vital to a firm's competitive posture--and focuses more attention on these elements than do most business strategy accounts. McAfee begins by considering strategy as successfully applied by America OnLine, an example that introduces many of the tools discussed in greater depth throughout the book. From here he moves to industry analysis: By examining the context for developing a strategy, he points out uses of positioning and differentiation that enable a firm to weaken price competition and deter rivals from stealing customers. McAfee's exploration of a product's life cycle proves an invaluable guide to positioning new technology in order to maximize the potential for future customers. In the centerpiece of the book, McAfee lays out a how-to manual for cooperation, providing tactics crucial for setting standards, lobbying the government, and fostering industry growth. Writing in a conversational manner, McAfee also addresses such deep topics as organizational design and employee compensation and incentives. More

detailed discussions examine antitrust enforcement, which is an increasingly important constraint on strategy, as well as strategies for pricing, bidding, signaling, and bargaining. This book is a fascinating examination of modern business strategy and its application in many different settings. Students of business and economics--as well as executives and managers--will recognize Competitive Solutions as an indispensable resource as well as a definitive vision of the strategic firm: one in which each element of company strategy reinforces the other elements.

Econometric Modeling

A Likelihood Approach *Princeton University Press*

Econometric Modeling provides a new and stimulating introduction to econometrics, focusing on modeling. The key issue confronting empirical economics is to establish sustainable relationships that are both supported by data and interpretable from economic theory. The unified likelihood-based approach of this book gives students the required statistical foundations of estimation and inference, and leads to a thorough understanding of econometric techniques. David Hendry and Bent Nielsen introduce modeling for a range of situations, including binary data sets, multiple regression, and cointegrated systems. In each setting, a statistical model is constructed to explain the observed variation in the data, with estimation and inference based on the likelihood function. Substantive issues are always addressed, showing how both statistical and economic assumptions can be tested and empirical results interpreted. Important empirical problems such as structural breaks,

forecasting, and model selection are covered, and Monte Carlo simulation is explained and applied. Econometric Modeling is a self-contained introduction for advanced undergraduate or graduate students. Throughout, data illustrate and motivate the approach, and are available for computer-based teaching. Technical issues from probability theory and statistical theory are introduced only as needed. Nevertheless, the approach is rigorous, emphasizing the coherent formulation, estimation, and evaluation of econometric models relevant for empirical research.

Real Econometrics

The Right Tools to Answer Important Questions *Oxford University Press, USA*

Revised edition of the author's Real econometrics, [2017]

The Econometric Analysis of Recurrent Events in Macroeconomics and Finance *Princeton University Press*

The global financial crisis highlighted the impact on macroeconomic outcomes of recurrent events like business and financial cycles, highs and lows in volatility, and crashes and recessions. At the most basic level, such recurrent events can be summarized using binary indicators showing if the event will occur or not. These indicators are constructed either directly from data or indirectly through models. Because they are constructed, they have different properties than those arising in microeconometrics, and how one is to use them depends a lot on the method of construction. This book presents the econometric methods necessary for the successful modeling of recurrent events,

providing valuable insights for policymakers, empirical researchers, and theorists. It explains why it is inherently difficult to forecast the onset of a recession in a way that provides useful guidance for active stabilization policy, with the consequence that policymakers should place more emphasis on making the economy robust to recessions. The book offers a range of econometric tools and techniques that researchers can use to measure recurrent events, summarize their properties, and evaluate how effectively economic and statistical models capture them. These methods also offer insights for developing models that are consistent with observed financial and real cycles. This book is an essential resource for students, academics, and researchers at central banks and institutions such as the International Monetary Fund.

Econometrics *Princeton University Press*

Hayashi's Econometrics promises to be the next great synthesis of modern econometrics. It introduces first year Ph.D. students to standard graduate econometrics material from a modern perspective. It covers all the standard material necessary for understanding the principal techniques of econometrics from ordinary least squares through cointegration. The book is also distinctive in developing both time-series and cross-section analysis fully, giving the reader a unified framework for understanding and integrating results. Econometrics has many useful features and covers all the important topics in econometrics in a succinct manner. All the estimation techniques that could possibly be taught in a first-year graduate course, except maximum likelihood, are treated as special cases of

GMM (generalized methods of moments). Maximum likelihood estimators for a variety of models (such as probit and tobit) are collected in a separate chapter. This arrangement enables students to learn various estimation techniques in an efficient manner. Eight of the ten chapters include a serious empirical application drawn from labor economics, industrial organization, domestic and international finance, and macroeconomics. These empirical exercises at the end of each chapter provide students a hands-on experience applying the techniques covered in the chapter. The exposition is rigorous yet accessible to students who have a working knowledge of very basic linear algebra and probability theory. All the results are stated as propositions, so that students can see the points of the discussion and also the conditions under which those results hold. Most propositions are proved in the text. For those who intend to write a thesis on applied topics, the empirical applications of the book are a good way to learn how to conduct empirical research. For the theoretically inclined, the no-compromise treatment of the basic techniques is a good preparation for more advanced theory courses.

Mastering the Lightning Network
"O'Reilly Media, Inc."

The Lightning Network (LN) is a rapidly growing second-layer payment protocol that works on top of Bitcoin to provide near-instantaneous transactions between two parties. With this practical guide, authors Andreas M. Antonopoulos, Olaoluwa Osuntokun, and Rene Pickhardt explain how this advancement will enable the next level of scale for Bitcoin, increasing speed and privacy while reducing fees. Ideal for developers,

systems architects, investors, and entrepreneurs looking to gain a better understanding of LN, this book demonstrates why experts consider LN a critical solution to Bitcoin's scalability problem. You'll learn how LN has the potential to support far more transactions than today's financial networks. This book examines: How the Lightning Network addresses the challenge of blockchain scaling The Basis of Lightning Technology (BOLT) standards documents The five layers of the Lightning Network Protocol Suite LN basics, including wallets, nodes, and how to operate one Lightning payment channels, onion routing, and gossip protocol Finding paths across payment channels to transport Bitcoin off-chain from sender to recipient

Economical Writing, Third Edition

Thirty-Five Rules for Clear and Persuasive Prose *University of Chicago Press*

Economics is not a field that is known for good writing. Charts, yes. Sparkling prose, no. Except, that is, when it comes to Deirdre Nansen McCloskey. Her conversational and witty yet always clear style is a hallmark of her classic works of economic history, enlivening the dismal science and engaging readers well beyond the discipline. And now she's here to share the secrets of how it's done. *Economical Writing* is itself economical: a collection of thirty-five pithy rules for making your writing clear, concise, and effective. Proceeding from big-picture ideas to concrete strategies for improvement at the level of the paragraph, sentence, or word, McCloskey shows us that good writing, after all, is not just a matter of taste—it's a product of adept intuition and a

rigorous revision process. Debunking stale rules, warning us that “footnotes are nests for pedants,” and offering an arsenal of readily applicable tools and methods, she shows writers of all levels of experience how to rethink the way they approach their work, and gives them the knowledge to turn mediocre prose into magic. At once efficient and digestible, hilarious and provocative, *Economical Writing* lives up to its promise. With McCloskey as our guide, it’s impossible not to see how any piece of writing—on economics or any other subject—can be a pleasure to read.

Introductory Econometrics

A Modern Approach

Statistical Methods in Econometrics

Emerald Group Publishing

Covers both multivariate analysis and matrix algebra. This work focuses on tests of hypotheses such as the Lagrange multiplier test. It discusses asymptotic distribution theory, and characteristic functions in depth. It is suitable for beginning graduate courses in mathematical statistics and econometrics.

Development Economics *Princeton University Press*

If you are instructor in a course that uses *Development Economics* and wish to have access to the end-of-chapter problems in *Development Economics*, please e-mail the author at debraj.ray@nyu.edu. For more information, please go to <http://www.econ.nyu.edu/user/debraj>. If you are a student in the course, please do not contact the author. Please request your instructor to do so. The study of development in low-income

countries is attracting more attention around the world than ever before. Yet until now there has been no comprehensive text that incorporates the huge strides made in the subject over the past decade. *Development Economics* does precisely that in a clear, rigorous, and elegant fashion. Debraj Ray, one of the most accomplished theorists in development economics today, presents in this book a synthesis of recent and older literature in the field and raises important questions that will help to set the agenda for future research. He covers such vital subjects as theories of economic growth, economic inequality, poverty and undernutrition, population growth, trade policy, and the markets for land, labor, and credit. A common point of view underlies the treatment of these subjects: that much of the development process can be understood by studying factors that impede the efficient and equitable functioning of markets. Diverse topics such as the new growth theory, moral hazard in land contracts, information-based theories of credit markets, and the macroeconomic implications of economic inequality come under this common methodological umbrella. The book takes the position that there is no single cause for economic progress, but that a combination of factors--among them the improvement of physical and human capital, the reduction of inequality, and institutions that enable the background flow of information essential to market performance--consistently favor development. Ray supports his arguments throughout with examples from around the world. The book assumes a knowledge of only introductory economics and explains sophisticated concepts in simple, direct

language, keeping the use of mathematics to a minimum. *Development Economics* will be the definitive textbook in this subject for years to come. It will prove useful to researchers by showing intriguing connections among a wide variety of subjects that are rarely discussed together in the same book. And it will be an important resource for policy-makers, who increasingly find themselves dealing with complex issues of growth, inequality, poverty, and social welfare.

A Guide for the Young Economist *MIT Press*

In clear, concise language—a model for what he advocates—William Thomson shows how to make written and oral presentations both inviting and efficient.

An Introduction to Modern Econometrics Using Stata *Stata Press*

Integrating a contemporary approach to econometrics with the powerful computational tools offered by Stata, *An Introduction to Modern Econometrics Using Stata* focuses on the role of method-of-moments estimators, hypothesis testing, and specification analysis and provides practical examples that show how the theories are applied to real data sets using Stata. As an expert in Stata, the author successfully guides readers from the basic elements of Stata to the core econometric topics. He first describes the fundamental components needed to effectively use Stata. The book then covers the multiple linear regression model, linear and nonlinear Wald tests, constrained least-squares estimation, Lagrange multiplier tests, and hypothesis testing of nonnested models. Subsequent chapters center on the consequences of failures of the linear regression model's

assumptions. The book also examines indicator variables, interaction effects, weak instruments, underidentification, and generalized method-of-moments estimation. The final chapters introduce panel-data analysis and discrete- and limited-dependent variables and the two appendices discuss how to import data into Stata and Stata programming. Presenting many of the econometric theories used in modern empirical research, this introduction illustrates how to apply these concepts using Stata. The book serves both as a supplementary text for undergraduate and graduate students and as a clear guide for economists and financial analysts.

Empirical Dynamic Asset Pricing

Model Specification and Econometric Assessment *Princeton University Press*

Written by one of the leading experts in the field, this book focuses on the interplay between model specification, data collection, and econometric testing of dynamic asset pricing models. The first several chapters provide an in-depth treatment of the econometric methods used in analyzing financial time-series models. The remainder explores the goodness-of-fit of preference-based and no-arbitrage models of equity returns and the term structure of interest rates; equity and fixed-income derivatives prices; and the prices of defaultable securities. Singleton addresses the restrictions on the joint distributions of asset returns and other economic variables implied by dynamic asset pricing models, as well as the interplay between model formulation and the choice of econometric estimation strategy. For each pricing

problem, he provides a comprehensive overview of the empirical evidence on goodness-of-fit, with tables and graphs that facilitate critical assessment of the current state of the relevant literatures. As an added feature, Singleton includes throughout the book interesting tidbits of new research. These range from empirical results (not reported elsewhere, or updated from Singleton's previous papers) to new observations about model specification and new econometric methods for testing models. Clear and comprehensive, the book will appeal to researchers at financial institutions as well as advanced students of economics and finance, mathematics, and science.

Trustworthy Online Controlled Experiments

A Practical Guide to A/B Testing *Cambridge University Press*

Getting numbers is easy; getting numbers you can trust is hard. This

practical guide by experimentation leaders at Google, LinkedIn, and Microsoft will teach you how to accelerate innovation using trustworthy online controlled experiments, or A/B tests. Based on practical experiences at companies that each run more than 20,000 controlled experiments a year, the authors share examples, pitfalls, and advice for students and industry professionals getting started with experiments, plus deeper dives into advanced topics for practitioners who want to improve the way they make data-driven decisions. Learn how to • Use the scientific method to evaluate hypotheses using controlled experiments • Define key metrics and ideally an Overall Evaluation Criterion • Test for trustworthiness of the results and alert experimenters to violated assumptions • Build a scalable platform that lowers the marginal cost of experiments close to zero • Avoid pitfalls like carryover effects and Twyman's law • Understand how statistical issues play out in practice.