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# Micromasters In Data Economics And Development Policy

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Towards the Private Funding of Higher Education  
Radical Solutions and Open Science  
TinyML  
What Do We Know and What Should We Do About Immigration?  
Women Have Always Worked  
The Future of Migration to Europe  
All of Statistics  
Bayesian Data Analysis, Third Edition  
Good Economics for Hard Times  
Probability with Martingales  
The Attack on Higher Education  
Introduction to Probability  
Economic Discrimination and Political Exchange  
Statistical Modeling and Computation  
Platform Revolution: How Networked Markets Are Transforming the Economy and  
How to Make Them Work for You  
Strategic Social Media Marketing  
Running Randomized Evaluations  
Data Science for Undergraduates  
The Analytics Edge  
Grasp  
Uplift and Empower  
From Poverty to Power  
Resonant Games  
Workforce Education  
Building Better Social Programs  
Higher Education Landscape 2030  
Executive Education after the Pandemic  
Introduction to Data Science  
How to Design Programs, second edition  
Probability  
Graduate STEM Education for the 21st Century  
Capitalism without Capital  
Measure What Matters  
An Introduction to Data Science  
Python for Everybody  
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## **AGUILAR FREY**

*Towards the Private Funding of Higher Education* Ledizioni  
Introduction to Data Science: Data Analysis and Prediction Algorithms with R introduces concepts and skills that can help you tackle real-world data analysis challenges. It covers concepts from probability, statistical inference, linear regression, and machine learning. It also helps you develop skills such as R programming, data wrangling, data visualization, predictive algorithm building, file organization with UNIX/Linux shell, version control with Git and GitHub, and reproducible document preparation. This book is a textbook for a first course in data science. No previous knowledge of R is necessary, although some experience with programming may be helpful. The book is divided into six parts: R, data visualization, statistics with R, data wrangling, machine learning, and productivity tools. Each part has several chapters meant to

be presented as one lecture. The author uses motivating case studies that realistically mimic a data scientist's experience. He starts by asking specific questions and answers these through data analysis so concepts are learned as a means to answering the questions. Examples of the case studies included are: US murder rates by state, self-reported student heights, trends in world health and economics, the impact of vaccines on infectious disease rates, the financial crisis of 2007-2008, election forecasting, building a baseball team, image processing of hand-written digits, and movie recommendation systems. The statistical concepts used to answer the case study questions are only briefly introduced, so complementing with a probability and statistics textbook is highly recommended for in-depth understanding of these concepts. If you read and understand the chapters and complete the exercises, you will be prepared to learn the more advanced concepts and skills needed to become an expert. *Radical Solutions and Open Science* New Degree

Press

An almost universal driving force for contemporary change in universities is the shifting view of higher education as more of a private than a public good. *Towards the Private Funding of Higher Education* presents a contemporary global picture of this move towards the privatisation of higher education, and examines how these shifts in ideology and funding priorities have significant policy implications. The resulting developments, such as the imposition and escalation of student tuition fees and the emergence of online providers of higher education, emerge out of a combination of economic, political and ideological pressures, further enhanced by technological changes. By using multiple international and regional examples to analyse the various pressures for privatisation, this book examines the different forms privatisation has taken, whilst offering an analytical interpretation of why the privatisation drive emerged, why it has been resisted in some instances and what forms it is likely to assume in the future. *Towards the Private Funding of Higher*

Education illustrates and challenges the emergence of a new relationship between the university, government and society. It is an essential read for higher education professors, university managers and higher education policy makers across the world.

TinyML Princeton University Press  
Evidence-based policymaking has, in recent decades, become a focus of program innovation in social care that engages foundations, universities, and state and federal governments. Rigorous research, epitomized by Randomized Controlled Trials, has become the benchmark for demonstrating efficacy and efficiency in social programming. Building Better Social Programs situates evidence-based policymaking with respect to the welfare state, describes key organizations driving the evidence-based movement, and proposes innovations designed to extend benefits to the working class. In addition to providing case studies of cost-effective programs delivering positive outcomes, this volume will include interviews with luminaries who have

propelled the evidence-based policy movement. It serves as essential reading for faculty, graduate students, program managers, and foundation program officers.

What Do We Know and What Should We Do About Immigration? SAGE

How do we learn? And how can we learn better? In this groundbreaking look at the science of learning, Sanjay Sarma, head of Open Learning at MIT, shows how we can harness this knowledge to discover our true potential. Drawing from his own experience as an educator as well as the work of researchers and innovators at MIT and beyond, in Grasp, Sarma explores the history of modern education, tracing the way in which traditional classroom methods—lecture, homework, test, repeat—became the norm and showing why things need to change. The book takes readers across multiple frontiers, from fundamental neuroscience to cognitive psychology and beyond, as it considers the future of learning. It introduces scientists who study forgetting, exposing it not as a simple failure of memory but as a critical

weapon in our learning arsenal. It examines the role curiosity plays in promoting a state of “readiness to learn” in the brain (and its troublesome twin, “unreadiness to learn”). And it reveals how such ideas are being put into practice in the real world, such as at unorthodox new programs like Ad Astra, located on the SpaceX campus. Along the way, Grasp debunks long-held views such as the noxious idea of “learning styles,” equipping readers with practical tools for absorbing and retaining information across a lifetime of learning.

**Women Have Always Worked** MIT Press

This hands-on introduction to silicon photonics engineering equips students with everything they need to begin creating foundry-ready designs.

The Future of Migration to Europe CRC Press

Python for Everybody is designed to introduce students to programming and software development through the lens of exploring data. You can think of the Python programming language as your tool to solve data problems that are beyond the capability of a spreadsheet. Python is

an easy to use and easy to learn programming language that is freely available on Macintosh, Windows, or Linux computers. So once you learn Python you can use it for the rest of your career without needing to purchase any software. This book uses the Python 3 language. The earlier Python 2 version of this book is titled "Python for Informatics: Exploring Information". There are free downloadable electronic copies of this book in various formats and supporting materials for the book at [www.pythonlearn.com](http://www.pythonlearn.com). The course materials are available to you under a Creative Commons License so you can adapt them to teach your own Python course.

**All of Statistics** The Future of Migration to Europe  
 The Future of Migration to Europe  
 Ledizioni  
[Bayesian Data Analysis, Third Edition](#) Penguin  
 #1 New York Times Bestseller  
 Legendary venture capitalist John Doerr reveals how the goal-setting system of Objectives and Key Results (OKRs) has helped tech giants from Intel to Google achieve explosive growth—and how it can

help any organization thrive. In the fall of 1999, John Doerr met with the founders of a start-up whom he'd just given \$12.5 million, the biggest investment of his career. Larry Page and Sergey Brin had amazing technology, entrepreneurial energy, and sky-high ambitions, but no real business plan. For Google to change the world (or even to survive), Page and Brin had to learn how to make tough choices on priorities while keeping their team on track. They'd have to know when to pull the plug on losing propositions, to fail fast. And they needed timely, relevant data to track their progress—to measure what mattered. Doerr taught them about a proven approach to operating excellence: Objectives and Key Results. He had first discovered OKRs in the 1970s as an engineer at Intel, where the legendary Andy Grove ("the greatest manager of his or any era") drove the best-run company Doerr had ever seen. Later, as a venture capitalist, Doerr shared Grove's brainchild with more than fifty companies. Wherever the process was faithfully practiced, it worked. In

this goal-setting system, objectives define what we seek to achieve; key results are how those top-priority goals will be attained with specific, measurable actions within a set time frame.

Everyone's goals, from entry level to CEO, are transparent to the entire organization. The benefits are profound. OKRs surface an organization's most important work. They focus effort and foster coordination. They keep employees on track. They link objectives across silos to unify and strengthen the entire company. Along the way, OKRs enhance workplace satisfaction and boost retention. In *Measure What Matters*, Doerr shares a broad range of first-person, behind-the-scenes case studies, with narrators including Bono and Bill Gates, to demonstrate the focus, agility, and explosive growth that OKRs have spurred at so many great organizations. This book will help a new generation of leaders capture the same magic.

*Good Economics for Hard Times* Springer Nature  
 Why the United States lags behind other industrialized countries in sharing the benefits of innovation with workers

and how we can remedy the problem. The United States has too many low-quality, low-wage jobs. Every country has its share, but those in the United States are especially poorly paid and often without benefits. Meanwhile, overall productivity increases steadily and new technology has transformed large parts of the economy, enhancing the skills and paychecks of higher paid knowledge workers. What's wrong with this picture? Why have so many workers benefited so little from decades of growth? The *Work of the Future* shows that technology is neither the problem nor the solution. We can build better jobs if we create institutions that leverage technological innovation and also support workers through long cycles of technological transformation. Building on findings from the multiyear MIT Task Force on the *Work of the Future*, the book argues that we must foster institutional innovations that complement technological change. Skills programs that emphasize work-based and hybrid learning (in person and online), for example, empower workers to become and

remain productive in a continuously evolving workplace. Industries fueled by new technology that augments workers can supply good jobs, and federal investment in R&D can help make these industries worker-friendly. We must act to ensure that the labor market of the future offers benefits, opportunity, and a measure of economic security to all.

*Probability with Martingales* Springer Nature

"A short, sharp and compelling book." The Observer At a time when immigration has once again become a deeply contentious political issue, Jonathan Portes provides some much-needed clarity, taking on misinformation and inaccurate reporting to reveal the true economic and social impact of immigration to the UK.

This important book covers a short history of immigration to the UK, uses the latest research and data to summarise how it is financially beneficial to the economy, considers its positive effects on contemporary society, and provides straightforward answers to commonly asked questions such as: does immigration push down

wages? Does it reduce job opportunities for those born in the UK? And what impact does it have on the NHS and other public services? Portes then proposes what we should do about immigration, defining what a post-Brexit system should look like, and outlining what, if anything, we should do to promote integration further. ABOUT THE SERIES: The 'What Do We Know and What Should We Do About...?' series offers readers short, up-to-date overviews of key issues often misrepresented, simplified or misunderstood in modern society and the media. Each book is written by a leading social scientist with an established reputation in the relevant subject area. The Series Editor is Professor Chris Grey, Royal Holloway, University of London

**The Attack on Higher Education** Princeton University Press Offers a look at the causes and effects of poverty and inequality, as well as the possible solutions. This title features research, human stories, statistics, and compelling arguments. It discusses about the world we live in and how we can make it a better place.

### Introduction to Probability

Oxford University Press  
Did bilateral and regional bargaining choke off international commerce and finance in the 1930s and prolong the Great Depression? Is the open world economic system now being placed at risk by explicitly discriminatory practices that erode respect for the GATT, the IMF, and the IBRD? Most political economists would answer in the affirmative, warning that bilateral and regional preferences are at best inefficient and at worst catastrophic. By contrast, Kenneth Oye shows how economic discrimination can foster international economic openness by facilitating political exchange.

### **Economic Discrimination and Political Exchange**

Cambridge University Press  
Did you know that over 700 million people live on less than \$2 a day? Nearly 10% of the global population struggles to survive 24 hours at a time. Eradicating extreme poverty may seem like a simple issue, but in reality, it's very complex. In *Uplift and Empower: A Guide to Understanding Extreme Poverty and Poverty Alleviation* you'll

learn about: The history and context of poverty and how the Industrial Revolution shaped modern social structures  
Major challenges caused by poverty and what it means to live within the poverty mindset  
Innovative solutions to addressing poverty, such as new methods for job creation and community engagement  
And so much more... This book is an exploration into one of the most pressing issues of our time. It's for anyone interested in becoming part of the solution, and everyone that's ready to Uplift and Empower.

### *Statistical Modeling and Computation*

Cambridge University Press  
This open access Springer Brief provides a systematic analysis of current trends and requirements in the areas of knowledge and competence in the context of the project "(A) Higher Education Digital (AHEAD)—International Horizon Scanning / Trend Analysis on Digital Higher Education." It examines the latest developments in learning theory, didactics, and digital-education technology in connection with an increasingly digitized higher education landscape. In turn, this

analysis forms the basis for envisioning higher education in 2030. Here, four learning pathways are developed to provide a glimpse of higher education in 2030:

Tamagotchi, a closed ecosystem that is built around individual students who enter the university soon after secondary education;

Jenga, in which universities offer a solid foundation of knowledge to build on in later phases;

Lego, where the course of study is not a monolithic unit, but

consists of individually combined modules of different sizes; and

Transformer, where students have already acquired their own professional identities and life experiences, which they integrate into their studies. In addition, innovative practice cases are presented to illustrate each learning path.

### *Platform Revolution: How Networked Markets Are Transforming the Economy and How to Make Them Work for You*

National Academies Press  
A completely revised edition, offering new design recipes for interactive programs and support for images as plain values, testing, event-driven

programming, and even distributed programming. This introduction to programming places computer science at the core of a liberal arts education. Unlike other introductory books, it focuses on the program design process, presenting program design guidelines that show the reader how to analyze a problem statement, how to formulate concise goals, how to make up examples, how to develop an outline of the solution, how to finish the program, and how to test it. Because learning to design programs is about the study of principles and the acquisition of transferable skills, the text does not use an off-the-shelf industrial language but presents a tailor-made teaching language. For the same reason, it offers DrRacket, a programming environment for novices that supports playful, feedback-oriented learning. The environment grows with readers as they master the material in the book until it supports a full-fledged language for the whole spectrum of programming tasks. This second edition has been completely revised. While the book

continues to teach a systematic approach to program design, the second edition introduces different design recipes for interactive programs with graphical interfaces and batch programs. It also enriches its design recipes for functions with numerous new hints. Finally, the teaching languages and their IDE now come with support for images as plain values, testing, event-driven programming, and even distributed programming. *Strategic Social Media Marketing* MIT Press Now in its third edition, this classic book is widely considered the leading text on Bayesian methods, lauded for its accessible, practical approach to analyzing data and solving research problems. *Bayesian Data Analysis, Third Edition* continues to take an applied approach to analysis using up-to-date Bayesian methods. The authors—all leaders in the statistics community—introduce basic concepts from a data-analytic perspective before presenting advanced methods. Throughout the text, numerous worked examples drawn from real applications and research

emphasize the use of Bayesian inference in practice. New to the Third Edition Four new chapters on nonparametric modeling Coverage of weakly informative priors and boundary-avoiding priors Updated discussion of cross-validation and predictive information criteria Improved convergence monitoring and effective sample size calculations for iterative simulation Presentations of Hamiltonian Monte Carlo, variational Bayes, and expectation propagation New and revised software code The book can be used in three different ways. For undergraduate students, it introduces Bayesian inference starting from first principles. For graduate students, the text presents effective current approaches to Bayesian modeling and computation in statistics and related fields. For researchers, it provides an assortment of Bayesian methods in applied statistics. Additional materials, including data sets used in the examples, solutions to selected exercises, and software instructions, are available on the book's web page. *Running Randomized Evaluations* Old Westbury,

N.Y. : Feminist Press ;  
 New York : McGraw-Hill  
 The U.S. system of graduate education in science, technology, engineering, and mathematics (STEM) has served the nation and its science and engineering enterprise extremely well. Over the course of their education, graduate students become involved in advancing the frontiers of discovery, as well as in making significant contributions to the growth of the U.S. economy, its national security, and the health and well-being of its people. However, continuous, dramatic innovations in research methods and technologies, changes in the nature and availability of work, shifts in demographics, and expansions in the scope of occupations needing STEM expertise raise questions about how well the current STEM graduate education system is meeting the full array of 21st century needs. Indeed, recent surveys of employers and graduates and studies of graduate education suggest that many graduate programs do not adequately prepare students to translate their knowledge into impact in

multiple careers.  
 Graduate STEM Education for the 21st Century examines the current state of U.S. graduate STEM education. This report explores how the system might best respond to ongoing developments in the conduct of research on evidence-based teaching practices and in the needs and interests of its students and the broader society it seeks to serve. This will be an essential resource for the primary stakeholders in the U.S. STEM enterprise, including federal and state policymakers, public and private funders, institutions of higher education, their administrators and faculty, leaders in business and industry, and the students the system is intended to educate.

Data Science for Undergraduates O'Reilly Media

An Introduction to Data Science is an easy-to-read data science textbook for those with no prior coding knowledge. It features exercises at the end of each chapter, author-generated tables and visualizations, and R code examples throughout.

**The Analytics Edge**  
 Cambridge University

Press  
 The winners of the Nobel Prize show how economics, when done right, can help us solve the thorniest social and political problems of our day. Figuring out how to deal with today's critical economic problems is perhaps the great challenge of our time. Much greater than space travel or perhaps even the next revolutionary medical breakthrough, what is at stake is the whole idea of the good life as we have known it. Immigration and inequality, globalization and technological disruption, slowing growth and accelerating climate change--these are sources of great anxiety across the world, from New Delhi and Dakar to Paris and Washington, DC. The resources to address these challenges are there--what we lack are ideas that will help us jump the wall of disagreement and distrust that divides us. If we succeed, history will remember our era with gratitude; if we fail, the potential losses are incalculable. In this revolutionary book, renowned MIT economists Abhijit V. Banerjee and Esther Duflo take on this challenge, building on



cutting-edge research in economics explained with lucidity and grace.

Original, provocative, and urgent, *Good Economics for Hard Times* makes a persuasive case for an intelligent interventionism and a society built on compassion and respect. It is an extraordinary achievement, one that shines a light to help us appreciate and understand our precariously balanced world.

*Grasp* Princeton University Press

A practical guide to the new economy that is transforming the way we live, work, and play. Uber. Airbnb. Amazon. Apple. PayPal. All of these companies disrupted their markets when they launched. Today they are industry leaders. What's the secret to their success? These cutting-

edge businesses are built on platforms: two-sided markets that are revolutionizing the way we do business. Written by three of the most sought-after experts on platform businesses, *Platform Revolution* is the first authoritative, fact-based book on platform models. Whether platforms are connecting sellers and buyers, hosts and visitors, or drivers with people who need a ride, Geoffrey G. Parker, Marshall W. Van Alstyne, and Sangeet Paul Choudary reveal the what, how, and why of this revolution and provide the first "owner's manual" for creating a successful platform business. *Platform Revolution* teaches newcomers how to start and run a successful platform business, explaining ways to identify prime markets

and monetize networks. Addressing current business leaders, the authors reveal strategies behind some of today's up-and-coming platforms, such as Tinder and SkillShare, and explain how traditional companies can adapt in a changing marketplace. The authors also cover essential issues concerning security, regulation, and consumer trust, while examining markets that may be ripe for a platform revolution, including healthcare, education, and energy. As digital networks increase in ubiquity, businesses that do a better job of harnessing the power of the platform will win. An indispensable guide, *Platform Revolution* charts out the brilliant future of platforms and reveals how they will irrevocably alter the lives and careers of millions.

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