

# Data Science Minor Berkeley

**data science minor berkeley: Data Science for Undergraduates** National Academies of Sciences, Engineering, and Medicine, Division of Behavioral and Social Sciences and Education, Board on Science Education, Division on Engineering and Physical Sciences, Committee on Applied and Theoretical Statistics, Board on Mathematical Sciences and Analytics, Computer Science and Telecommunications Board, Committee on Envisioning the Data Science Discipline: The Undergraduate Perspective, 2018-11-11 Data science is emerging as a field that is revolutionizing science and industries alike. Work across nearly all domains is becoming more data driven, affecting both the jobs that are available and the skills that are required. As more data and ways of analyzing them become available, more aspects of the economy, society, and daily life will become dependent on data. It is imperative that educators, administrators, and students begin today to consider how to best prepare for and keep pace with this data-driven era of tomorrow. Undergraduate teaching, in particular, offers a critical link in offering more data science exposure to students and expanding the supply of data science talent. Data Science for Undergraduates: Opportunities and Options offers a vision for the emerging discipline of data science at the undergraduate level. This report outlines some considerations and approaches for academic institutions and others in the broader data science communities to help guide the ongoing transformation of this field.

**data science minor berkeley: How to Be a High School Superstar** Cal Newport, 2010-07-27 Do Less, Live More, Get Accepted What if getting into your reach schools didn't require four years of excessive A.P. classes, overwhelming activity schedules, and constant stress? In *How to Be a High School Superstar*, Cal Newport explores the world of relaxed superstars—students who scored spots at the nation's top colleges by leading uncluttered, low stress, and authentic lives. Drawing from extensive interviews and cutting-edge science, Newport explains the surprising truths behind these superstars' mixture of happiness and admissions success, including: · Why doing less is the foundation for becoming more impressive. · Why demonstrating passion is meaningless, but being interesting is crucial. · Why accomplishments that are hard to explain are better than accomplishments that are hard to do. These insights are accompanied by step-by-step instructions to help any student adopt the relaxed superstar lifestyle—proving that getting into college doesn't have to be a chore to survive, but instead can be the reward for living a genuinely interesting life.

**data science minor berkeley: Law and Policy for the Quantum Age** Chris Jay Hoofnagle, Simson L. Garfinkel, 2022-01-06 The Quantum Age cuts through the hype to demystify quantum technologies, their development paths, and the policy issues they raise.

**data science minor berkeley: Video Games Have Always Been Queer** Bo Ruberg, 2019-03-19 Argues for the queer potential of video games While popular discussions about queerness in video games often focus on big-name, mainstream games that feature LGBTQ characters, like *Mass Effect* or *Dragon Age*, Bonnie Ruberg pushes the concept of queerness in games beyond a matter of representation, exploring how video games can be played, interpreted, and designed queerly, whether or not they include overtly LGBTQ content. *Video Games Have Always Been Queer* argues that the medium of video games itself can—and should—be read queerly. In the first book dedicated to bridging game studies and queer theory, Ruberg resists the common, reductive narrative that games are only now becoming more diverse. Revealing what reading D. A. Miller can bring to the popular 2007 video game *Portal*, or what Eve Sedgwick offers *Pong*, Ruberg models the ways game worlds offer players the opportunity to explore queer experience, affect, and desire. As players attempt to 'pass' in *Octodad* or explore the pleasure of failure in *Burnout: Revenge*, Ruberg asserts that, even within a dominant gaming culture that has proved to be openly hostile to those perceived as different, queer people have always belonged in video games—because video games have, in fact, always been queer.

**data science minor berkeley: Human-Centered Data Science** Cecilia Aragon, Shion Guha, Marina Kogan, Michael Muller, Gina Neff, 2022-03-01 Best practices for addressing the bias and inequality that may result from the automated collection, analysis, and distribution of large datasets. Human-centered data science is a new interdisciplinary field that draws from human-computer interaction, social science, statistics, and computational techniques. This book, written by founders of the field, introduces best practices for addressing the bias and inequality that may result from the automated collection, analysis, and distribution of very large datasets. It offers a brief and accessible overview of many common statistical and algorithmic data science techniques, explains human-centered approaches to data science problems, and presents practical guidelines and real-world case studies to help readers apply these methods. The authors explain how data scientists' choices are involved at every stage of the data science workflow—and show how a human-centered approach can enhance each one, by making the process more transparent, asking questions, and considering the social context of the data. They describe how tools from social science might be incorporated into data science practices, discuss different types of collaboration, and consider data storytelling through visualization. The book shows that data science practitioners can build rigorous and ethical algorithms and design projects that use cutting-edge computational tools and address social concerns.

**data science minor berkeley: *The Charisma Machine*** Morgan G. Ames, 2019-11-19 A fascinating examination of technological utopianism and its complicated consequences. In *The Charisma Machine*, Morgan Ames chronicles the life and legacy of the One Laptop per Child project and explains why—despite its failures—the same utopian visions that inspired OLPC still motivate other projects trying to use technology to “disrupt” education and development. Announced in 2005 by MIT Media Lab cofounder Nicholas Negroponte, One Laptop per Child promised to transform the lives of children across the Global South with a small, sturdy, and cheap laptop computer, powered by a hand crank. In reality, the project fell short in many ways—starting with the hand crank, which never materialized. Yet the project remained charismatic to many who were captivated by its claims of access to educational opportunities previously out of reach. Behind its promises, OLPC, like many technology projects that make similarly grand claims, had a fundamentally flawed vision of who the computer was made for and what role technology should play in learning. Drawing on fifty years of history and a seven-month study of a model OLPC project in Paraguay, Ames reveals that the laptops were not only frustrating to use, easy to break, and hard to repair, they were designed for “technically precocious boys”—idealized younger versions of the developers themselves—rather than the children who were actually using them. *The Charisma Machine* offers a cautionary tale about the allure of technology hype and the problems that result when utopian dreams drive technology development.

**data science minor berkeley: *Open Sources*** Chris DiBona, Sam Ockman, 1999-01-03 Freely available source code, with contributions from thousands of programmers around the world: this is the spirit of the software revolution known as Open Source. Open Source has grabbed the computer industry's attention. Netscape has opened the source code to Mozilla; IBM supports Apache; major database vendors have ported their products to Linux. As enterprises realize the power of the open-source development model, Open Source is becoming a viable mainstream alternative to commercial software. Now in *Open Sources*, leaders of Open Source come together for the first time to discuss the new vision of the software industry they have created. The essays in this volume offer insight into how the Open Source movement works, why it succeeds, and where it is going. For programmers who have labored on open-source projects, *Open Sources* is the new gospel: a powerful vision from the movement's spiritual leaders. For businesses integrating open-source software into their enterprise, *Open Sources* reveals the mysteries of how open development builds better software, and how businesses can leverage freely available software for a competitive business advantage. The contributors here have been the leaders in the open-source arena: Brian Behlendorf (Apache) Kirk McKusick (Berkeley Unix) Tim O'Reilly (Publisher, O'Reilly & Associates) Bruce Perens (Debian Project, Open Source Initiative) Tom Paquin and Jim Hamerly (mozilla.org,

Netscape) Eric Raymond (Open Source Initiative) Richard Stallman (GNU, Free Software Foundation, Emacs) Michael Tiemann (Cygnus Solutions) Linus Torvalds (Linux) Paul Vixie (Bind) Larry Wall (Perl) This book explains why the majority of the Internet's servers use open-source technologies for everything from the operating system to Web serving and email. Key technology products developed with open-source software have overtaken and surpassed the commercial efforts of billion dollar companies like Microsoft and IBM to dominate software markets. Learn the inside story of what led Netscape to decide to release its source code using the open-source mode. Learn how Cygnus Solutions builds the world's best compilers by sharing the source code. Learn why venture capitalists are eagerly watching Red Hat Software, a company that gives its key product -- Linux -- away. For the first time in print, this book presents the story of the open-source phenomenon told by the people who created this movement. Open Sources will bring you into the world of free software and show you the revolution.

**data science minor berkeley: Linguistic Interference and First-language Attrition**

Gergely Toth, 2007 Studies on the interaction of languages are gaining importance in today's world, which is characterized by accelerated migration and increasing cultural exchange. In contrast to most research in this field, which concentrates on one embedded language against a matrix language, Gergely Tóth examines the linguistic behaviors in two immigrant speech communities, German and Hungarian, against the background of English. The results of linguistic interference and the ongoing attrition process in these communities are the main focus of this book. By offering a thorough description of linguistic, biographical, and sociolinguistic data spanning three generations in each community, and by contrasting the findings and the detailed error statistics yielded by 500 sentences from each of these two non-related embedded languages, this work contributes to our understanding of contact linguistic mechanisms and sheds light on specific grammatical and lexical features that are most prone to attritional forces. An in-depth historical portrayal of these two speech communities in San Francisco and a complete list of the 1,000 sentences with all identified speaker errors complement the volume.

**data science minor berkeley: *World Atlas of Seagrasses*** Frederick T. Short, 2003 Seagrasses are a vital and widespread but often overlooked coastal marine habitat. This volume provides a global survey of their distribution and conservation status.

**data science minor berkeley: *Perturbation theory for linear operators*** Tosio Kato, 2013-06-29

**data science minor berkeley: *Roundtable on Data Science Postsecondary Education*** National Academies of Sciences, Engineering, and Medicine, Division of Behavioral and Social Sciences and Education, Division on Engineering and Physical Sciences, Board on Science Education, Computer Science and Telecommunications Board, Committee on Applied and Theoretical Statistics, Board on Mathematical Sciences and Analytics, 2020-10-02 Established in December 2016, the National Academies of Sciences, Engineering, and Medicine's Roundtable on Data Science Postsecondary Education was charged with identifying the challenges of and highlighting best practices in postsecondary data science education. Convening quarterly for 3 years, representatives from academia, industry, and government gathered with other experts from across the nation to discuss various topics under this charge. The meetings centered on four central themes: foundations of data science; data science across the postsecondary curriculum; data science across society; and ethics and data science. This publication highlights the presentations and discussions of each meeting.

**data science minor berkeley: *Cornerstones of Attachment Research*** Robbie Duschinsky, 2020 This is an open access title available under the terms of a [CC BY-NC-ND 4.0 International] licence. It is free to read at Oxford Clinical Psychology Online and offered as a free PDF download from OUP and selected open access locations. Attachment theory is among the most popular theories of human socioemotional development, with a global research community and widespread interest from clinicians, child welfare professionals, educationalists and parents. It has been considered one of the most generative contemporary ideas about family life in modern society. It is one of the last of the grand theories of human development that still retains an active research tradition. Attachment theory and research speak to fundamental questions about human emotions, relationships and

development. They do so in terms that feel experience-near, with a remarkable combination of intuitive ideas and counter-intuitive assessments and conclusions. Over time, attachment theory seems to have become more, rather than less, appealing and popular, in part perhaps due to alignment with current concern with the lifetime implications of early brain development. *Cornerstones of Attachment Research* re-examines the work of key laboratories that have contributed to the study of attachment. In doing so, the book traces the development in a single scientific paradigm through parallel but separate lines of inquiry. Chapters address the work of Bowlby, Ainsworth, Main and Hesse, Sroufe and Egeland, and Shaver and Mikulincer. *Cornerstones of Attachment Research* utilises attention to these five research groups as a lens on wider themes and challenges faced by attachment research over the decades. The chapters draw on a complete analysis of published scholarly and popular works by each research group, as well as much unpublished material.

**data science minor berkeley:** *Data Science in R* Deborah Nolan, Duncan Temple Lang, 2015-04-21 Effectively Access, Transform, Manipulate, Visualize, and Reason about Data and Computation *Data Science in R: A Case Studies Approach to Computational Reasoning and Problem Solving* illustrates the details involved in solving real computational problems encountered in data analysis. It reveals the dynamic and iterative process by which data analysts

**data science minor berkeley:** *Search User Interfaces* Marti A. Hearst, 2009-09-21 The truly world-wide reach of the Web has brought with it a new realisation of the enormous importance of usability and user interface design. In the last ten years, much has become understood about what works in search interfaces from a usability perspective, and what does not. Researchers and practitioners have developed a wide range of innovative interface ideas, but only the most broadly acceptable make their way into major web search engines. This book summarizes these developments, presenting the state of the art of search interface design, both in academic research and in deployment in commercial systems. Many books describe the algorithms behind search engines and information retrieval systems, but the unique focus of this book is specifically on the user interface. It will be welcomed by industry professionals who design systems that use search interfaces as well as graduate students and academic researchers who investigate information systems.

**data science minor berkeley: Subversives** Seth Rosenfeld, 2013-07-23 Electrifying.—The New York Times Book Review Encyclopedic and compelling.—The New Yorker A New York Times Bestseller A Christian Science Monitor Best Non-Fiction Book of the Year A Kirkus Reviews Best Non-Fiction Book of the Year Winner of the PEN Center USA Book Award Winner of the Ridenhour Book Prize Winner of the Society of Professional Journalists' Sunshine Award Winner of Before Columbus Foundation's American Book Award *Subversives* traces the FBI's secret involvement with three iconic figures who clashed at Berkeley during the 1960s: the ambitious neophyte politician Ronald Reagan, the fierce but fragile radical Mario Savio, and the liberal university president Clark Kerr. Through these converging narratives, the award-winning investigative reporter Seth Rosenfeld tells a dramatic and disturbing story of FBI surveillance, illegal break-ins, infiltration, planted news stories, poison-pen letters, and secret detention lists all centered on the nation's leading public university. Rosenfeld vividly evokes the campus counterculture, as he reveals how the FBI's covert operations—led by Reagan's friend J. Edgar Hoover—helped ignite an era of protest, undermine the Democrats, and benefit Reagan personally and politically. The FBI spent more than \$1 million trying to block the release of the secret files on which *Subversives* is based, but Rosenfeld compelled the bureau to reveal more than 300,000 pages, providing an extraordinary view of what the government was up to during a turning point in our nation. Part history, part biography, and part police procedural, *Subversives* reads like a true-crime mystery as it provides a fresh look at the legacy of the 1960s, sheds new light on one of America's most popular presidents, and tells a cautionary tale about the dangers of unchecked secrecy and power.

**data science minor berkeley: Diversifying the STEM Fields: From Individual to Structural Approaches** Rodolfo Mendoza-Denton, Colette Patt, Adrienne R. Carter-Sowell,

2023-02-14

**data science minor berkeley: Principles of Data Science** Hamid R. Arabnia, Kevin Daimi, Robert Stahlbock, Cristina Soviany, Leonard Heilig, Kai Brüssau, 2020-07-08 This book provides readers with a thorough understanding of various research areas within the field of data science. The book introduces readers to various techniques for data acquisition, extraction, and cleaning, data summarizing and modeling, data analysis and communication techniques, data science tools, deep learning, and various data science applications. Researchers can extract and conclude various future ideas and topics that could result in potential publications or thesis. Furthermore, this book contributes to Data Scientists' preparation and to enhancing their knowledge of the field. The book provides a rich collection of manuscripts in highly regarded data science topics, edited by professors with long experience in the field of data science. Introduces various techniques, methods, and algorithms adopted by Data Science experts Provides a detailed explanation of data science perceptions, reinforced by practical examples Presents a road map of future trends suitable for innovative data science research and practice

**data science minor berkeley: Risk Terrain Modeling** Joel M. Caplan, Leslie W. Kennedy, 2016-06-28 Imagine using an evidence-based risk management model that enables researchers and practitioners alike to analyze the spatial dynamics of crime, allocate resources, and implement custom crime and risk reduction strategies that are transparent, measurable, and effective. Risk Terrain Modeling (RTM) diagnoses the spatial attractors of criminal behavior and makes accurate forecasts of where crime will occur at the microlevel. RTM informs decisions about how the combined factors that contribute to criminal behavior can be targeted, connections to crime can be monitored, spatial vulnerabilities can be assessed, and actions can be taken to reduce worst effects. As a diagnostic method, RTM offers a statistically valid way to identify vulnerable places. To learn more, visit <http://www.riskterrainmodeling.com> and begin using RTM with the many free tutorials and resources.

**data science minor berkeley: Minor Creatures** Ivan Kreilkamp, 2018-11-07 In the nineteenth century, richly-drawn social fiction became one of England's major cultural exports. At the same time, a surprising companion came to stand alongside the novel as a key embodiment of British identity: the domesticated pet. In works by authors from the Brontës to Eliot, from Dickens to Hardy, animals appeared as markers of domestic coziness and familial kindness. Yet for all their supposed significance, the animals in nineteenth-century fiction were never granted the same fullness of character or consciousness as their human masters: they remain secondary figures. *Minor Creatures* re-examines a slew of literary classics to show how Victorian notions of domesticity, sympathy, and individuality were shaped in response to the burgeoning pet class. The presence of beloved animals in the home led to a number of welfare-minded political movements, inspired in part by the Darwinian thought that began to sprout at the time. Nineteenth-century animals may not have been the heroes of their own lives but, as Kreilkamp shows, the history of domestic pets deeply influenced the history of the English novel.

**data science minor berkeley: Theory of International Politics** Kenneth Neal Waltz, 1979 Forfatterens mål med denne bog er: 1) Analyse af de gældende teorier for international politik og hvad der heri er lagt størst vægt på. 2) Konstruktion af en teori for international politik som kan råde bod på de mangler, der er i de nu gældende. 3) Afprøvning af den rekonstruerede teori på faktiske hændelsesforløb.

**data science minor berkeley: Why We Sleep** Matthew Walker, 2017-10-03 Sleep is one of the most important but least understood aspects of our life, wellness, and longevity ... An explosion of scientific discoveries in the last twenty years has shed new light on this fundamental aspect of our lives. Now ... neuroscientist and sleep expert Matthew Walker gives us a new understanding of the vital importance of sleep and dreaming--Amazon.com.

**data science minor berkeley: Creole Son** E. Kay Trimberger, 2020-04-01 *Creole Son* is the compelling memoir of a single white mother searching to understand why her adopted biracial son grew from a happy child into a troubled young adult who struggled with addiction for decades. The

answers, E. Kay Trimberger finds, lie in both nature and nurture. When five-day-old Marco is flown from Louisiana to California and placed in Trimberger's arms, she assumes her values and example will be the determining influences upon her new son's life. Twenty-six years later, when she helps him make contact with his Cajun and Creole biological relatives, she discovers that many of his cognitive and psychological strengths and difficulties mirror theirs. Using her training as a sociologist, Trimberger explores behavioral genetics research on adoptive families. To her relief as well as distress, she learns that both biological heritage and the environment—and their interaction—shape adult outcomes. Trimberger shares deeply personal reflections about raising Marco in Berkeley in the 1980s and 1990s, with its easy access to drugs and a culture that condoned their use. She examines her own ignorance about substance abuse, and also a failed experiment in an alternative family lifestyle. In an afterword, Marc Trimberger contributes his perspective, noting a better understanding of his life journey gained through his mother's research. By telling her story, Trimberger provides knowledge and support to all parents—biological and adoptive—with troubled offspring. She ends by suggesting a new adoption model, one that creates an extended, integrated family of both biological and adoptive kin.

**data science minor berkeley:** Berkeley Hal Draper, 2020-07-07 There's a time when the operation of the machine becomes so odious, makes you so sick at heart, that you can't take part! You can't even passively take part! And you've got to put your bodies upon the gears and upon the wheels ... upon the levers, upon all the apparatus, and you've got to make it stop! These fiery words of protest, spoken by Mario Savio during the Berkeley Free Speech Movement, became a call to action that helped galvanize an entire generation of radicals during the 1960s. Led by student politicized through the fight for Civil Rights, the movement would reshape the American left and influence a generation of protesters across the globe. In this rousing and insightful participant's account, Hal Draper recounts the now iconic events of the FSM. From the impromptu speak out atop a police car after the administration decided to clamp down on students distributing communist literature, to the inspiring Student Strike that shut down the entire campus, Draper's narrative captures the energy and dynamism of each twist and turn in the struggle, and offers invaluable analysis along the way. Brimming with lessons still relevant for today's activists, Berkeley: The New Student Rebellion is a classic of on-the-ground historical reportage.

**data science minor berkeley:** Reinventing the Social Scientist and Humanist in the Era of Big Data Susan Brokensha, Eduan Kotzé, Burgert A. Senekal, 2019-12-01 This book explores the big data evolution by interrogating the notion that big data is a disruptive innovation that appears to be challenging existing epistemologies in the humanities and social sciences. Exploring various (controversial) facets of big data such as ethics, data power, and data justice, the book attempts to clarify the trajectory of the epistemology of (big) data-driven science in the humanities and social sciences.

**data science minor berkeley:** Computational Bioengineering Guigen Zhang, 2015-04-01 Arguably the first book of its kind, Computational Bioengineering explores the power of multidisciplinary computer modeling in bioengineering. Written by experts, the book examines the interplay of multiple governing principles underlying common biomedical devices and problems, bolstered by case studies. It shows you how to take advantage of the la

**data science minor berkeley:** Berkeley's Philosophy of Science Richard J. Brook, 2012-12-06 Philonous: You see, Hylas, the water of yonder fountain, how it is forced upwards, in a round column, to a certain height, at which it breaks and falls back into the basin from whence it rose, its ascent as well as descent proceeding from the same uniform law or principle of gravitation. Just so, the same principles which at first view, lead to skepticism, pursued to a certain point, bring men back to common 1 sense. Although major works on Berkeley have considered his Philosophy of 1 George Berkeley, Three Dialogues Between Hylas and Philonous, ed. Colin Murray Turbayne, (third and final edition; London 1734); (New York: The Bobbs Merrill Company, Inc., Library of Liberal Arts, 1965), p. 211. Berkeley, in general, conveniently numbered sections in his works, and in the text of the essay, we will refer if possible to the title and section number. References to the

Three Dialogues Between Hylas and Philonous will be also made in the text and refer to the dialogue number and page in the Turbayne edition cited above.

**data science minor berkeley: Data Science Careers, Training, and Hiring** Renata Rawlings-Goss, 2019-08-02 This book is an information packed overview of how to structure a data science career, a data science degree program, and how to hire a data science team, including resources and insights from the authors experience with national and international large-scale data projects as well as industry, academic and government partnerships, education, and workforce. Outlined here are tips and insights into navigating the data ecosystem as it currently stands, including career skills, current training programs, as well as practical hiring help and resources. Also, threaded through the book is the outline of a data ecosystem, as it could ultimately emerge, and how career seekers, training programs, and hiring managers can steer their careers, degree programs, and organizations to align with the broader future of data science. Instead of riding the current wave, the author ultimately seeks to help professionals, programs, and organizations alike prepare a sustainable plan for growth in this ever-changing world of data. The book is divided into three sections, the first "Building Data Careers", is from the perspective of a potential career seeker interested in a career in data, the second "Building Data Programs" is from the perspective of a newly forming data science degree or training program, and the third "Building Data Talent and Workforce" is from the perspective of a Data and Analytics Hiring Manager. Each is a detailed introduction to the topic with practical steps and professional recommendations. The reason for presenting the book from different points of view is that, in the fast-paced data landscape, it is helpful to each group to more thoroughly understand the desires and challenges of the other. It will, for example, help the career seekers to understand best practices for hiring managers to better position themselves for jobs. It will be invaluable for data training programs to gain the perspective of career seekers, who they want to help and attract as students. Also, hiring managers will not only need data talent to hire, but workforce pipelines that can only come from partnerships with universities, data training programs, and educational experts. The interplay gives a broader perspective from which to build.

**data science minor berkeley: Mathematical Thinking and Problem Solving** Alan H. Schoenfeld, Alan H. Sloane, 2016-05-06 In the early 1980s there was virtually no serious communication among the various groups that contribute to mathematics education -- mathematicians, mathematics educators, classroom teachers, and cognitive scientists. Members of these groups came from different traditions, had different perspectives, and rarely gathered in the same place to discuss issues of common interest. Part of the problem was that there was no common ground for the discussions -- given the disparate traditions and perspectives. As one way of addressing this problem, the Sloan Foundation funded two conferences in the mid-1980s, bringing together members of the different communities in a ground clearing effort, designed to establish a base for communication. In those conferences, interdisciplinary teams reviewed major topic areas and put together distillations of what was known about them.\* A more recent conference -- upon which this volume is based -- offered a forum in which various people involved in education reform would present their work, and members of the broad communities gathered would comment on it. The focus was primarily on college mathematics, informed by developments in K-12 mathematics. The main issues of the conference were mathematical thinking and problem solving.

**data science minor berkeley: Restricted Data** Alex Wellerstein, 2021-04-09 Nuclear weapons, since their conception, have been the subject of secrecy. In the months after the dropping of the atomic bombs on Hiroshima and Nagasaki, the American scientific establishment, the American government, and the American public all wrestled with what was called the problem of secrecy, wondering not only whether secrecy was appropriate and effective as a means of controlling this new technology but also whether it was compatible with the country's core values. Out of a messy context of propaganda, confusion, spy scares, and the grave counsel of competing groups of scientists, what historian Alex Wellerstein calls a new regime of secrecy was put into place. It was unlike any other previous or since. Nuclear secrets were given their own unique legal designation in

American law (restricted data), one that operates differently than all other forms of national security classification and exists to this day. Drawing on massive amounts of declassified files, including records released by the government for the first time at the author's request, *Restricted Data* is a narrative account of nuclear secrecy and the tensions and uncertainty that built as the Cold War continued. In the US, both science and democracy are pitted against nuclear secrecy, and this makes its history uniquely compelling and timely--

**data science minor berkeley: Do Zombies Dream of Undead Sheep?** Timothy Verstynen, Bradley Voytek, 2016-10-04 A look at the true nature of the zombie brain Even if you've never seen a zombie movie or television show, you could identify an undead ghoul if you saw one. With their endless wandering, lumbering gait, insatiable hunger, antisocial behavior, and apparently memory-less existence, zombies are the walking nightmares of our deepest fears. What do these characteristic behaviors reveal about the inner workings of the zombie mind? Could we diagnose zombism as a neurological condition by studying their behavior? In *Do Zombies Dream of Undead Sheep?*, neuroscientists and zombie enthusiasts Timothy Verstynen and Bradley Voytek apply their neuro-know-how to dissect the puzzle of what has happened to the zombie brain to make the undead act differently than their human prey. Combining tongue-in-cheek analysis with modern neuroscientific principles, Verstynen and Voytek show how zombism can be understood in terms of current knowledge regarding how the brain works. In each chapter, the authors draw on zombie popular culture and identify a characteristic zombie behavior that can be explained using neuroanatomy, neurophysiology, and brain-behavior relationships. Through this exploration they shed light on fundamental neuroscientific questions such as: How does the brain function during sleeping and waking? What neural systems control movement? What is the nature of sensory perception? Walking an ingenious line between seriousness and satire, *Do Zombies Dream of Undead Sheep?* leverages the popularity of zombie culture in order to give readers a solid foundation in neuroscience.

**data science minor berkeley: The Oxford Handbook of Berkeley**, 2022-01-18 The Oxford Handbook of Berkeley is a compendious examination of a vast array of topics in the philosophy of George Berkeley (1685-1753), Anglican Bishop of Cloyne, the famous idealist and most illustrious Irish philosopher. Berkeley is best known for his denial of the existence of material substance and his insistence that the only things that exist in the universe are minds (including God) and their ideas; however, Berkeley was a polymath who contributed to a variety of different disciplines, not well distinguished from philosophy in the eighteenth century, including the theory and psychology of vision, the nature and functioning of language, the debate over infinitesimals in mathematics, political philosophy, economics, chemistry (including his favoured panacea, tar-water), and theology. This volume includes contributions from thirty-four expert commentators on Berkeley's philosophy, some of whom provide a state-of-the-art account of his philosophical achievements, and some of whom place his philosophy in historical context by comparing and contrasting it with the views of his contemporaries (including Mandeville, Collier, and Edwards), as well as with philosophers who preceded him (such as Descartes, Locke, Malebranche, and Leibniz) and others who succeeded him (such as Hume, Reid, Kant, and Shepherd).

**data science minor berkeley: City of Walls** Teresa P. R. Caldeira, 2000 This is an extraordinary treatment of a difficult problem. . . . Much more than a conventional comparative study, *City of Walls* is a genuinely transcultural, transnational work—the first of its kind that I have read.—George E. Marcus, author of *Ethnography Through Thick & Thin* Caldeira's work is wonderfully ambitious-theoretically bold, ethnographically rich, historically specific. Anyone who cares about the condition and future of cities, of democracy, of human rights should read this book.—Thomas Bender, Director of the Project on Cities and Urban Knowledges *City of Walls* is a brilliant analysis of the dynamics of urban fear. The sophistication of Caldeira's arguments should stimulate new discussion of cities and urban life. Its significance goes far beyond the borders of Brazil.—Margaret Crawford, Professor of Urban Planning and Design Theory, Graduate School of Design, Harvard University Caldeira's insight illuminates the geography of the city as well as the



boundaries—or the lack of boundaries—of violence.—Paul Chevigny, author of *Edge of the Knife: Police Violence in the Americas* An extraordinary account of violence in the city. . . . Caldeira brings to this task a rare depth of knowledge and understanding.—Saskia Sassen, author of *Globalization and Its Discontents* An outstanding contribution to understanding authoritarian continuity under political reform. Caldeira has written a brilliant and bleak analysis on the many challenges and obstacles which government and civil society face in new democracies.—Paulo Sérgio Pinheiro, Director of the Center for the Study of Violence, University of São Paulo and Member of the United Nations Sub-Commission for the Promotion and Protection of Human Rights

**data science minor berkeley: The First American School of Sociology** Earl Wright II, 2017-05-15 This book offers an original and rounded examination of the origin and sociological contributions of one of the most significant, yet continuously ignored, programs of social science research ever established in the United States: the Atlanta Sociological Laboratory. Under the leadership of W.E.B. Du Bois, this unit at Atlanta University made extensive contributions to the discipline which, as the author demonstrates, extend beyond 'race studies' to include founding the first American school of sociology, establishing the first program of urban sociological research, conducting the first sociological study on religion in the United States, and developing methodological advances that remain in use today. However, all of these accomplishments have subsequently been attributed, erroneously, to White sociologists at predominately White institutions, while the Atlanta Sociological Laboratory remains sociologically ignored and marginalized. Placing the achievements of the Du Bois led Atlanta Sociological Laboratory in context, the author contends that American Jim Crow racism and segregation caused the school to become marginalized and ignored instead of becoming recognized as one the most significant early departments of sociology in the United States. Illuminating the sociological activities - and marginalization - of a group of African American scholars from a small African American institution of higher learning in the Deep South - whose works deserve to be canonized alongside those of their late nineteenth and early twentieth century peers - this book will appeal to all scholars with interests in the history of sociology and its development as a discipline, race and ethnicity, research methodology, the sociology of the south, and urban sociology.

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## **Jewish Studies Minor**

The Jewish Studies minor is open to all UC Berkeley students. Requirements of Jewish Studies Minor: 1. Five relevant upper division courses (including JEWISH 100 core course), minimum 3 ...

[Tsinghua-Berkeley Shenzhen Institute \(TBSI\) Master Program ...](#)

2.2 Data Science and Information Technology TBSI Master Program in Data Science and Information Technology provides education and research practices for students to obtain ...

[Art Practice For - University of California, Berkeley](#)

College of Letters & Science Essential Skills Requirements Quantitative Reasoning The Quantitative Reasoning requirement is designed to ensure that students graduate with basic ...

## **Ryan Tibshirani - University of California, Berkeley**

Minor in Computer Science. Sept 2003 { June 2007 Awards, Fellowships, Honors ... tions of Data

Science 2019 Associate Chair for Joint Statistical Meetings (JSM) 2018 Editorial Service ...

German - University of California, Berkeley

5. Courses used to fulfill the minor requirements may be applied toward the Seven-Course Breadth requirement, for Letters & Science students. 6. No more than one upper division ...

### **Geospatial Information Science and Technology**

policy, and environmental public health. The minor is open to all majors at UC Berkeley. Declaring the Minor The Geospatial Information Science and Technology minor is available to any ...

*University of California, Berkeley UNDERGRADUATE MINOR ...*

EDUC 130 (3) Knowing and Learning in Mathematics and Science EDUC 131AC (3) Classroom Interactions in Science and Mathematics: A focus on Equity and Urban Schools EDUC 140AC ...

### **Conservation and Resource Studies - University of California, ...**

Conservation and Resource Studies 3 2. All courses taken to fulfill the minor requirements below must be taken for graded credit. 3. A minimum grade point average (GPA) of 2.0 is required for ...

### **Interleaving Computational and Inferential Thinking: Data ...**

Data Science for Undergraduates at Berkeley ... undergraduate major and minor program in data science. 1 Introduction One of the most challenging—but ultimately most rewarding—ways to ...

*Proposal for a Department of Data Science April 2021*

both meet existing student demand (self-designed Major and Minor in Data Science) and to support majors in Data Science. This document presents the challenges currently faced by the ...