

Original Paper

Enhancing Learning About Epidemiological Data Analysis Using R for Graduate Students in Medical Fields With Jupyter Notebook: Classroom Action Research

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Abstract

Background: Graduate students in medical fields must learn about epidemiology and data analysis to conduct their research. R is a software environment used to develop and run packages for statistical analysis; it can be challenging for students to learn because of compatibility with their computers and problems with package installations. Jupyter Notebook was used to run R, which enhanced the graduate students' ability to learn epidemiological data analysis by providing an interactive and collaborative environment that allows for more efficient and effective learning.

Objective: This study collected class reflections from students and their lecturer in the class "Longitudinal Data Analysis Using R," identified problems that occurred, and illustrated how Jupyter Notebook can solve those problems.

Methods: The researcher analyzed issues encountered in the previous class and devised solutions using Jupyter Notebook. These solutions were then implemented and applied to a new group of students. Reflections from the students were regularly collected and documented in an electronic form. The comments were then thematically analyzed and compared to those of the prior cohort.

Results: Improvements that were identified included the ease of using Jupyter R for data analysis without needing to install packages, increased student questioning due to curiosity, and students having the ability to immediately use all code functions. After using Jupyter Notebook, the lecturer could stimulate interest more effectively and challenge students. Furthermore, they highlighted that students responded to questions. The student feedback shows that learning R with Jupyter Notebook was effective in stimulating their interest. Based on the feedback received, it can be inferred that using Jupyter Notebook to learn R is an effective approach for equipping students with an all-encompassing comprehension of longitudinal data analysis.

Conclusions: The use of Jupyter Notebook can improve graduate students' learning experience for epidemiological data analysis by providing an interactive and collaborative environment that is not affected by compatibility issues with different operating systems and computers.

(*JMIR Med Educ* 2023;9:e47394) doi: [10.2196/47394](https://doi.org/10.2196/47394)

KEYWORDS

learning; Jupyter; R; epidemiology; data analysis; medical education; graduate student; longitudinal data analysis; graduate education; implementation

Introduction

All graduate students in medical fields must eventually learn about epidemiology. Graduate students also study essential

subjects, such as research methodology and data analysis, to conduct and complete the research projects that are part of their degree requirements [1]. Studying R in an epidemiology course can help students develop important skills for data analysis,

Medical Research A Statistical Epidemiological Approach

SJ Ball



Medical Research A Statistical Epidemiological Approach:

Medical Research John M. England, 1975 **Epidemiological Methods in Life Course Research** Andrew Pickles, Barbara Maughan, Michael Wadsworth, 2007-06-28 Life course epidemiology is concerned with the origins of risk resilience and the processes of ageing and how this information can be of value in a public health context particularly for preventive health care Its challenge is to discover develop and analyse sources of data that cover many years of life especially the early developmental period when it is thought some fundamental aspects of lifetime health begin It also analyses genetic propensity and environmental exposures The rapid development of life course epidemiology in parallel with new work on developmental biology and the biology of ageing has brought innovative and ingenious methods of data collection These require new methodological techniques for the design of observational and quasi experimental studies of life course pathways to adult health This book describes these developments together with arguments for improving the measurement of the social environment and its role in developing individual vulnerability or adaptation The development of bio bank large scale population studies for the investigation of genetic effects is discussed alongside the challenges this creates for the epidemiologist The changing design of studies increasing flow of longitudinal data management of data analytic challenges timing and both traditional and more recent methods of managing these features in the study of causality are discussed Life course epidemiology has an essential role in developing methods to evaluate precisely the impact of interacting developmental environmental and genetic effects knowledge of which is fundamental for the design of effective prevention strategies in public health as well as for the advancement of understanding in the broader spheres of health and medicine *Epidemiological Approaches to the Study of Cancer and Other Chronic Diseases* William Haenszel, 1966

Epidemiology Rodolfo Saracci, 2010-02-25 What is epidemiology What are the causes of a new disease How can pandemics be prevented Epidemiology is the study of the changing patterns of disease and its main aim is to improve the health of populations It is a vital field central to the health of society to the identification of causes of disease and to their management and prevention Epidemiology has had an impact on many areas of medicine from discovering the relationship between tobacco smoking and lung cancer to the origin and spread of new epidemics However it is often poorly understood largely due to misrepresentations in the media In this Very Short Introduction Rodolfo Saracci dispels some of the myths surrounding the study of epidemiology He provides a general explanation of the principles behind clinical trials and explains the nature of basic statistics concerning disease He also looks at the ethical and political issues related to obtaining and using information concerning patients and trials involving placebos ABOUT THE SERIES The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area These pocket sized books are the perfect way to get ahead in a new subject quickly Our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable *Biomedical Index to PHS-supported Research*

,1991 **Cumulated Index Medicus** ,1967 **Biostatistics in Clinical Trials** Carol K. Redmond,Theodore Colton,2001-04-25 The second volume in the Wiley reference series in Biostatistics Featuring articles from the prestigious Encyclopedia of Biostatistics many of which have been fully revised and updated to include recent developments Biostatistics in Clinical Trials also includes up to 25% newly commissioned material reflecting the latest thinking in Bayesian methods Benefit risk assessment Cost effectiveness Ethics Fraud With exceptional contributions from leading experts in academia government and industry Biostatistics in Clinical Trials has been designed to complement existing texts by providing extensive up to date coverage and introducing the reader to the research literature Offering comprehensive coverage of all aspects of clinical trials Biostatistics in Clinical Trials Includes concise definitions and introductions to numerous concepts found in current literature Discusses the software and textbooks available Uses extensive cross references helping to facilitate further research and enabling the reader to locate definitions and related concepts Biostatistics in Clinical Trials offers both academics and practitioners from various disciplines and settings such as universities the pharmaceutical industry and clinical research organisations up to date information as well as references to assist professionals involved in the design and conduct of clinical trials **Research Awards Index** ,1989 **The Registrar-General's Statistical Review of England and Wales** Great Britain. General Register Office,1960 *Nursing Ethics E-Book* Ian E. Thompson,Kath M. Melia,Kenneth M. Boyd,Dorothy Horsburgh,2006-06-14 The eBook version of this title gives you access to the complete book content electronically Evolve eBooks allows you to quickly search the entire book make notes add highlights and study more efficiently Buying other Evolve eBooks titles makes your learning experience even better all of the eBooks will work together on your electronic bookshelf so that you can search across your entire library of Nursing eBooks Please note that this version is the eBook only and does not include the printed textbook Alternatively you can buy the Text and Evolve eBooks Package which gives you the printed book plus the eBook Please scroll down to our Related Titles section to find this title The fifth edition of this highly popular text offers a lucid and readable account of ethical issues affecting nurses and other health care practitioners which will be of value throughout their careers Nursing ethics offers a highly practical approach with a direct focus on ethical issues that might be encountered by health practitioners in training in practice and in management It is also interactive and case based encouraging readers to reflect on their current and future areas of practice The concluding chapters discuss the role of moral theory and give practical models for ethical decision making The authors have developed a holistic approach that explores ethics in hospital and community settings interdisciplinary teamwork ward and hospital management nursing research performance management and the political ethics of nursing administration health service re structuring and reform The content has been substantially revised for this edition and significant new material added to reflect developments in theory and practice covers a wide range of ethical issues much more than just clinical dilemmas and decision making skills a down to earth and practical approach to applied ethics user

friendly layout material on moral theory kept to a minimum but dealt with thoroughly at the end of the book focuses on ethical issues in nursing and case studies taken from nursing practice i e the concrete concerns of nurses and other front line workers pedagogical features include chapter aims learning outcomes and further reading for possible essay tutorial and project topics also useful as a general work of reference on ethic in health care An up to date analysis of professions in the context of modernity to enable health professionals to make sense of global cultural social developments An analysis of the ethics of evidence based practice An examination of professional accountability and ethics in performance management to help practitioners managers understand the ethical basis of management useful web links and teaching notes on a dedicated website <http://evolve.elsevier.com/Thompson/nursingethics> The Registrar General's Statistical Review of England and Wales for the Year ... Great Britain. General Register Office,1958 **The New Public Health** Theodore H. Tulchinsky,Elena A. Varavikova,Matan J. Cohen,2023-01-21 Selected for Doody's Core Titles 2024 in Public Health The New Public Health has established itself as a solid textbook throughout the world Translated into seven languages this work distinguishes itself from other public health textbooks which are either highly locally oriented or if international lack the specificity of local issues relevant to students understanding of applied public health in their own setting Fully revised the Fourth Edition of The New Public Health provides a unified approach to public health appropriate for graduate students and advance undergraduate students especially for courses in MPH community health preventive medicine community health education programs community health nursing programs It is also a valuable resource for health professionals requiring an overview of public health Provides a comprehensive overview of the field illustrated with real life specific examples Updated with new case studies and examples from current public health environment in North American and European regions Includes detailed Companion website <https://www.elsevier.com/books-and-journals/book-companion/9780128229576> featuring case studies image bank online chapters and video as well as an Instructors guide *Cancer Epidemiology* Isabel dos Santos Silva,International Agency for Research on Cancer,1999 A basic textbook addressed to medical and public health students clinicians health professionals and all others seeking to understand the principles and methods used in cancer epidemiology Written by a prominent epidemiologist and experienced teacher at the London School of Hygiene and Tropical Medicine the text aims to help readers become competent in the use of basic epidemiological tools and capable of exercising critical judgment when assessing results reported by others Throughout the text a lively writing style and numerous illustrative examples often using real research data facilitate an easy understanding of basic concepts and methods Information ranges from an entertaining account of the origins of epidemiology through advice on how to overcome some of the limitations of survival analysis to a checklist of questions to ask when considering sources of bias Although statistical concepts and formulae are presented the emphasis is consistently on the interpretation of the data rather than on the actual calculations The text has 18 chapters The first six introduce the basic principles of epidemiology and statistics Chapters 7-13 deal in more

depth with each of the study designs and interpretation of their findings Two chapters concerned with the problems of confounding and study size cover more complex statistical concepts and are included for advanced study A chapter on methodological issues in cancer prevention gives examples of epidemiology's contribution to primary prevention screening and other activities for early detection and tertiary prevention The concluding chapters review the role of cancer registries and discuss practical considerations that should be taken into account in the design planning and conduct of any type of epidemiological research

Spatial Analysis in Health Geography Pavlos Kanaroglou, Eric Delmelle, 2016-03-09

Presenting current research on spatial epidemiology this book covers topics such as exposure chronic disease infectious disease accessibility to health care settings and new methods in Geographical Information Science and Systems For epidemiologists and for the management and administration of health care settings it is critical to understand the spatial dynamics of disease For instance it is crucial that hospital administrators develop an understanding of the flow of patients over time especially during an outbreak of a particular disease so they can plan for appropriate levels of staffing and to carry out adaptive prevention measures Furthermore understanding where and why a disease occurs at a certain geographic location is vital for decision makers to formulate policy to increase the accessibility to health services either by prevention or adding new facilities Spatial epidemiology relies increasingly on new methodologies such as clustering algorithms visualization and space time modelling the domain of Geographic Information Science Implementation of those techniques appears at an increasing pace in commercial Geographic Information Systems alongside more traditional techniques that are already part of such systems This book provides the latest methods in GI Science and their use in health related problems

Epidemiology of Cerebrovascular Disease John F. Kurtzke, 2012-12-06 This work started out quite modestly as an

investigation into the geographic distribution of cerebrovascular disease But one question soon led to another and it just grew like Topsy In fact it is hard to characterize precisely what this should be called It is in part a Review of the Literature in part a critique and reworking of other publications and in part a standard view of stroke epidemiology in the more restricted sense of attack and mortality rates and distribution Still the result would I hope provide a synthesis of the population features of stroke as they appear to me at this time a highly individual interpretation of the state of the art I have studiously avoided any survey of the history of cerebrovascular disease and citations are for those of most recent vintage appropriate to the situation Literature in this field continues to burgeon my references end with the Fall of 1967 When counting noses we must have numbers so the reader will find a massive compilation of tables They are however necessary especially since so many of my statements seem to fly in the face of current orthodoxy whether lay or medical With the data one may decide for himself their validity Insofar as possible tables have been placed in the appendix Unless an author is directly quoted by me all interpretations of his data are my own and he should be held blameless

The Development of Modern Epidemiology Walter W Holland, Jørn Olsen, Charles du V. Florey, 2007-04-05 This book marks the 50th anniversary of

the foundation of the International Epidemiological Association IEA It is a unique compendium by the world's leading epidemiologists of how the field has developed and how it can be and has been applied to the control of common conditions and threats to public health Five distinct sections guide the reader through the wealth of material Gives an historical account of the concepts and ideas and current importance of epidemiology to global health issues and to organisations such as the WHO Illustrates the advances and contributions to epidemiologic knowledge and the control of disease in specific areas such as cancer cardiovascular disease respiratory disease tuberculosis maternal and child health non biologic disorders such as war and disasters and new infectious diseases Outlines the use of epidemiology in areas such as public health health services occupational and environmental medicine social epidemiology and nutrition Discusses methodological developments such as statistics information sources investigation of disease outbreaks and clinical epidemiology Looks at how the subject has developed internationally with perspectives on regions such as the Americas Poland Spain Eastern Mediterranean New Zealand China Thailand and Japan This remarkable insight into how epidemiology has developed is essential reading for both existing and aspiring epidemiologists *Current Bibliography of Epidemiology*, 1972 **Modern Epidemiologic Principles and Concepts**

Laurens Holmes Jr, 2025-02-22 Modern Epidemiologic Principles Concepts This Modern Epidemiologic Principles and Concepts as a clinical medicine and public health text introduces the fundamental concepts in epidemiologic investigation and demonstrates how to integrate emerging research on epigenomics into practice disease control and prevention Epidemiology has a vital strategic role in facilitating and leading evidence discovery in all aspects of human health with the intent of improving patient and population health through disease risk determinants disease control and prevention as well as health promotion practices Emphasizing what we currently understand about the transformation of the human body and the ecosystem undergo as a result of social structure environment daily challenges and mutation remains essential in disease improvement and population health optimization This textbook explores the origin of epidemiology its relationship with medicine and public health and its role in assessing disease distribution as occurrence or frequency predisposing and risk factors treatment and management as well as disease control and management Further it explains in detail the specific epidemiologic design conduct analysis and interpretation Furthermore since epidemiology remains translational this text describes epidemiologic disciplines including although not limited to cancer epidemiology nutrition epidemiology environmental epidemiology health disparities epidemiology and genetic epidemiology as well as the elaboration of how gene and environment interaction termed epigenomic modulations as aberrant predispose to morbidity prognosis survival and mortality at an individual as well as the specific population level This 1st edition Modern Epidemiologic Principles Concepts remains novel in the application of epigenomic modulations in epidemiologic investigation of disease incidence morbidity and mortality at specific population levels for graduate education in public health clinical sciences as well as medical education This Modern Epidemiologic Principles and Concepts has filled this gap not only in the

way complex designs are explained but in the simplification of statistical concepts that had rarely been explained in such a way before This text has been prepared intentionally to include rudimentary level information so as to benefit clinicians who lack a sophisticated mathematical background or previous advanced knowledge of epidemiology as well as other researchers who may want to conduct clinical research and consumers of research products who may benefit from the design process explained in this book It is with this expectation and enthusiasm that we recommend this text to clinicians in all fields of clinical biomedical and population based research The examples provided by the author to simplify designs and research methods are familiar to surgeons as well as clinicians in other specialties of medicine Though statistical inference is essential in our application of the research findings to clinical decision making regarding the care of our patients it alone without clinical relevance or importance can be very misleading or even meaningless The author has attempted to deemphasize p value in the interpretation of epidemiologic or clinical research findings by stressing the importance of effect size and confidence intervals which allow for the quantification of evidence and precision respectively For example a large study due to a large sample size as big data that minimizes variability may show a statistically significant difference when in reality the effect size is too insignificant to warrant any clinical importance In contrast the results of a small study such as those frequently seen in clinical trials or surgical research may have a large effect on clinical relevance but not be statistically significant at $p < 0.05$ Thus without considering the magnitude of the effect size with the confidence interval we tend to regard these studies as negative findings which is erroneous since the absence of evidence based simply on an arbitrary significance level of 5 percent does not necessarily mean evidence of absence and effect since clinical research results cannot be adequately interpreted without considering the biological and clinical significance of the data before the statistical stability of the findings p value and 95 percent confidence interval since the p value as observed by the authors merely reflects the size of the study and not the measure of evidence In recommending this text it is our hope that this book will benefit clinicians research fellows clinical fellows graduate interns doctoral and postdoctoral students in medical and clinical settings nurses clinical research coordinators physical therapists and all those involved in designing and conducting clinical research and analyzing research data for statistical and clinical relevance Convincingly knowledge gained from this text will lead to improvement of patient care through well conceptualized research Therefore with the knowledge that no book is complete no matter its content or volume especially a book of this nature which is prepared to guide clinicians and others involved in clinical and medical research on the design conduct analysis and interpretation of findings we contend this book will benefit clinicians and others who are interested in applying appropriate design to research conduct analysis and interpretation of findings Finally we are optimistic that this book will bridge the gap between knowledge and practice of clinical research especially for clinicians in a busy practice who are passionate about making a difference in their patient s care through research and education

Ophthalmic Epidemiology Ching-Yu Cheng,Tien Yin Wong,2022-05-24

Ophthalmic Epidemiology Current Concepts to Digital Strategies provides a comprehensive guide to graduate students ophthalmologists and researchers in ophthalmic epidemiology It covers recently developed new methodologies technologies and resources in ocular epidemiological research such as telemedicine disease registries EMR bio banks and omics This book also summarizes recent epidemiological findings and provides up to date data on ocular diseases Furthermore it introduces and discusses the uses of epidemiology in the evaluation of health services and population screening programs and reviews the application of epidemiology in intervention trials in the communities Key Features Comprehensive guide to the epidemiology of common eye diseases Provides updates on the prevalence and risk factors of eye diseases Outlines how epidemiological techniques can be utilized to evaluate ophthalmic health services and programs

Textbook of Epidemiology Lex Bouter,Maurice Zeegers,Tianjing Li,2023-01-04 TEXTBOOK OF EPIDEMIOLOGY The gold standard in epidemiological texts In the second edition of Textbook of Epidemiology a distinguished team of researchers deliver an extensively updated and comprehensive exploration of epidemiological methods illuminating the tools for studying the distribution and risk factors of health states and events in populations An introduction to epidemiological methods with recent and broadly applicable examples End of chapter self assessment questions for readers to check their understanding of key concepts with answer keys and further enrichment materials available on a companion website A brand new chapter covering methods for systematic review and meta analysis Accessible material appropriate for clinical practitioners and researchers from around the world Perfect for professionals working in clinical medicine and public health Textbook of Epidemiology will also earn a place in the libraries of allied health professionals seeking a one stop resource or to reimmerge themselves in specific methodological topics and practices

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