

Mauro Borgo · Alessandro Soranzo
Massimo Grassi

MATLAB for Psychologists

 Springer

Matlab For Psychologists

**Mauro Borgo, Alessandro
Soranzo, Massimo Grassi**



Matlab For Psychologists:

MATLAB for Psychologists Mauro Borgo, Alessandro Soranzo, Massimo Grassi, Luca Battaglini, 2025-05-04 The second edition of this textbook provides a comprehensive and detailed overview of MATLAB and specific tools for creating experiments and analysing data in psychology In addition to an enhanced focus on connections with external devices and writing experiments all chapters have been thoroughly revised and updated to provide the latest information and examples compatible with the most recent versions of MATLAB All scripts have been tested to ensure a reliable and exact response In addition the book provides detailed examples of classic experiments e g the Posner task as well as recommendations for structuring and implementing ad hoc experiments Each chapter is accompanied by several illustrations examples and code to match every reader s expertise and comfort level This concise volume demonstrates MATLAB s responsiveness to individuals research needs whether the task is programming experiments creating sensory stimuli running simulations or calculating statistics for data analysis Key areas of coverage include Thinking in a matrix way Handling and plotting data Guidelines for improved programming sound and imaging Statistical analysis and signal detection theory Psychophysics Toolbox and its use in connection with external devices MATLAB for Psychologists Second Edition serves a wide audience of advanced undergraduate and graduate level psychology students professors and researchers as well as lab technicians and other professionals involved in programming psychology experiments

MATLAB for Psychologists Mauro Borgo, Alessandro Soranzo, Massimo Grassi, 2012-03-24 The matrix laboratory interactive computing environment MATLAB has brought creativity to research in diverse disciplines particularly in designing and programming experiments More commonly used in mathematics and the sciences it also lends itself to a variety of applications across the field of psychology For the novice looking to use it in experimental psychology research though becoming familiar with MATLAB can be a daunting task MATLAB for Psychologists expertly guides readers through the component steps skills and operations of the software with plentiful graphics and examples to match the reader s comfort level Using an extended illustration this concise volume explains the program s usefulness at any point in an experiment without the limits imposed by other types of software And the authors demonstrate the responsiveness of MATLAB to the individual s research needs whether the task is programming experiments creating sensory stimuli running simulations or calculating statistics for data analysis Key features of the coverage Thinking in a matrix way Handling and plotting data Guidelines for improved programming sound and imaging Statistical analysis and signal detection theory indexes The Graphical User Interface The Psychophysics Toolbox MATLAB for Psychologists serves a wide audience of advanced undergraduate and graduate level psychology students professors and researchers as well as lab technicians involved in programming psychology experiments

MATLAB for Psychologists Springer, 2012-03-01 *An Introduction to MATLAB for Behavioral Researchers* Christopher R. Madan, 2013-12-18 MATLAB is a powerful data analysis program but many behavioral science researchers find it too daunting to learn and use An

Introduction to MATLAB for Behavioral Researchers by Christopher R Madan is an easy to understand hands on guide for behavioral researchers who have no prior programming experience Written in a conversational and non intimidating style the author walks students step by step through analyzing real experimental data Topics covered include the basics of programming the implementation of simple behavioral analyses and how to make publication ready figures More advanced topics such as pseudo randomization of trial sequences to meet specified criteria and working with psycholinguistic data are also covered Interesting behavioral science examples and datasets from published studies such as visualizing fixation patterns in eye tracking studies and animal search behavior in two dimensional space help develop an intuition for data analysis which is essential and can only be developed when working with real research problems and real data

A Psychologist's guide to EEG Michiel Spape, 2021-10-27 Do you want to learn to read people s minds In this student friendly practice focussed textbook on EEG and biosignal analysis you will learn how to Implement your experiment in E Prime or OpenSesame Run your study in the psychophysiological laboratory Analyse data in MATLAB by following simple steps This textbook follows a unique approach by guiding you through a single EEG study each part introducing the relevant core knowledge and commonly available software Practical exercises help you master the skills to independently implement every aspect of an experiment from setting up the lab to analysing the data Suitable for developing both basic levels of skill for undergraduates as well as advancing towards a stronger command of analysis and understanding at postgraduate level Michiel Spap is a Lecturer and Researcher in Psychology at the University of Helsinki

[Programming Behavioral Experiments with MATLAB and Psychtoolbox](#) Erman Misirlisoy, 2016-11-10 Human behavior is fascinating so it s no surprise that psychologists and neuroscientists spend their lives designing rigorous experiments to understand it MATLAB is one of the most widely used pieces of software for designing and running behavioral experiments and it opens up a world of quick and flexible experiment programming This book offers a step by step guide to using MATLAB with Psychtoolbox to create customisable experiments Its pocket size and simple language allow you to get straight to the point and help you to learn fast in order to complete your work in great time In nine simple steps it guides you all the way from setting parameters for your experiment to analysing the output Gone are the daunting days of working through hundreds of irrelevant and complicated documents as in this handy book Erman Misirlisoy coaxes you in the right direction with his friendly and encouraging tricks and tips If you want to learn how to develop your own experiments to collect and analyse behavioral data then this book is a must read Whether you are a student in experimental psychology a researcher in cognitive neuroscience or simply someone who wants to run behavioral tasks on your friends for fun this book will offer you the skills to succeed

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Analysis PCA Cluster Analysis Time Series Analysis Bayesian Methods and Inference Monte Carlo Simulation Techniques Optimization Algorithms in Psychological Research Visualization and Interpretation of Results Practical Applications and Case Studies

MATLAB for Behavioral Scientists David A. Rosenbaum, Brad Wyble, 2012-12-06 MATLAB for Behavioral Scientists walks behavioral scientists through the computer programming process using terms that are relevant to their concerns and appreciating their special programming needs Author David A Rosenbaum introduces Matrix Laboratory MATLAB a powerful computer programming language with an active community of users engaged in many branches of science and engineering Among its many attractive features MATLAB offers high level commands for performing calculations with large as well as small data sets and for generating publication quality graphics Throughout the text Rosenbaum presents each new principle with one or more illustrations of usable code In addition each chapter begins with suggestions regarding which actions to perform followed by the commands required to do so An accompanying Web site lists programs and code output complete with color motion and sound publisher description

Matlab for the Behavioral Sciences Geoffrey Boynton, Ione Fine, 2012-12-31

MATLAB for Brain and Cognitive Scientists Mike X Cohen, 2017-07-14 An introduction to a popular programming language for neuroscience research taking the reader from beginning to intermediate and advanced levels of MATLAB programming MATLAB is one of the most popular programming languages for neuroscience and psychology research Its balance of usability visualization and widespread use makes it one of the most powerful tools in a scientist's toolbox In this book Mike Cohen teaches brain scientists how to program in MATLAB with a focus on applications most commonly used in neuroscience and psychology Although most MATLAB tutorials will abandon users at the beginner's level leaving them to sink or swim MATLAB for Brain and Cognitive Scientists takes readers from beginning to intermediate and advanced levels of MATLAB programming helping them gain real expertise in applications that they will use in their work The book offers a mix of instructive text and rigorous explanations of MATLAB code along with programming tips and tricks The goal is to teach the reader how to program data analyses in neuroscience and psychology Readers will learn not only how to but also how not to program with examples of bad code that they are invited to correct or improve Chapters end with exercises that test and develop the skills taught in each chapter Interviews with neuroscientists and cognitive scientists who have made significant contributions their field using MATLAB appear throughout the book

MATLAB for Brain and Cognitive Scientists is an essential resource for both students and instructors in the classroom or for independent study

Data Analysis in the Earth Sciences Using Matlab® Gerard V. Middleton, 2000 Exploring the application of MATLAB to the various earth sciences this text presents an integrated step by step introduction to data analysis and the use of MATLAB

MATLAB Blues David A. Rosenbaum, 2019-07-17 MATLAB Blues is an accessible comprehensive introduction to the MATLAB computer programming language a powerful and increasingly popular tool for students and researchers Rosenbaum identifies many of the common mistakes and pitfalls associated with using MATLAB and shows users how they can learn from

these mistakes to be better happier programmers Each chapter systematically addresses one of the basic principles of the programming language like matrices calculations contingencies plotting input output and graphics and then identifies areas that are problematic as well as potential errors that can occur This not only provides the reader with the fundamental scales and chords that a MATLAB programmer needs to know but also with a series of examples and explanations of how to avoid and remedy common mistakes Accompanied by an array of sample code that can be used and manipulated in conjunction with the textbook this book is a practical insightful introduction to MATLAB which provides motivation and encouragement to those with little or no background in programming as well as to those with more advanced concerns It is an invaluable resource for researchers and students undertaking courses in research methods statistics and programming

Understanding Psychology as a Science Zoltan Dienes,2008-05-01 How can we objectively define categories of truth in scientific thinking How can we reliably measure the results of research In this ground breaking text Dienes undertakes a comprehensive historical analysis of the dominant schools of thought key theories and influential thinkers that have progressed the foundational principles and characteristics that typify scientific research methodology today This book delivers a masterfully simple though not simplistic introduction to the core arguments surrounding Popper Kuhn and Lakatos Fisher and Royall Neyman and Pearson and Bayes Subsequently this book clarifies the prevalent misconceptions that surround such theoretical perspectives in psychology today providing an especially accessible critique for student readers This book launches an informative inquiry into the methods by which psychologists throughout history have arrived at the conclusions of research equipping readers with the knowledge to accurately design and evaluate their own research and gain confidence in critiquing results in psychology research Particular attention is given to understanding methods of measuring the falsifiability of statements probabilities and the differing views on statistical inference An illuminating book for any undergraduate psychology student taking courses in critical thinking research methods BPS s core area conceptual and historical issues as well as those studying masters phd s and experienced researchers

A Perspective on Psychology in India ,1977 Festschrift in honor of Syed Mohammad Mohsin b 1910 Indian psychologist **The British National Bibliography** Arthur James Wells,2009 *MATLAB for Neuroscientists* Pascal Wallisch,Michael E. Lusignan,Marc D. Benayoun,Tanya I. Baker,Adam Seth Dickey,Nicholas G. Hatsopoulos,2010-07-28 *MATLAB for Neuroscientists* An Introduction to Scientific Computing in MATLAB is the first comprehensive teaching resource and textbook for the teaching of MATLAB in the Neurosciences and in Psychology MATLAB is unique in that it can be used to learn the entire empirical and experimental process including stimulus generation experimental control data collection data analysis and modeling Thus a wide variety of computational problems can be addressed in a single programming environment The idea is to empower advanced undergraduates and beginning graduate students by allowing them to design and implement their own analytical tools As students advance in their research careers they will have achieved the fluency required to understand and adapt

more specialized tools as opposed to treating them as black boxes Virtually all computational approaches in the book are covered by using genuine experimental data that are either collected as part of the lab project or were collected in the labs of the authors providing the casual student with the look and feel of real data In some cases published data from classical papers are used to illustrate important concepts giving students a computational understanding of critically important research The first comprehensive textbook on MATLAB with a focus for its application in neuroscience Problem based educational approach with many examples from neuroscience and cognitive psychology using real data Authors are award winning educators with strong teaching experience **Canadian Psychology** ,2006 **Acta academica** ,2007 **Choice** ,2003 APS Observer ,2006

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