Planning Proposing And Presenting Science Effectively A Guide For Graduate Students And Researchers In The Behavioral Sciences And Biology

This concise guide to planning, writing, and presenting research is intended for biology students of all levels, especially those in behavioral ecology, The reader is guided through a discussion of the nature of scientific research, how to plan research, and how to obtain funding. The authors give advice and guidelines for presenting results at research seminars and scientific meetings, and also provide useful tips on preparing abstracts and posters for scientific meetings. They discuss how to write an effective C.V. and give general tips on how to write clearly. The book is illuminated throughout with personal examples from the authors' own experiences and emphasis is placed on problems associated with field studies. All biologists will find this a valuable resource and guide for the early years of their scientific careers and established faculty will find it an essential instructional tool.

This workbook is a series of exercises that teach the skills of observation based in the scientific method that will bring students into some proximity with primates as subjects of observation, & with the realities of scientific inquiry.

Writing the Modern Research Paper is a practical and contemporary guide to writing research papers, offering students advice on how to think critically throughout the research process. Designed as a complete reference, this book offers a step-by-step guide to research, encouraging students to think carefully and crtitically about such issues as audience, topic, and thesis, as well as evaluating, integrating, and citing sources appropriately. The text covers both informative and argumentative purposes for doing research, including a full chapter on reasoning and evidence in argumentative research papers. Original and realistic student examples throughout show various approaches to the methods of planning and researching. This contemporary book offers full coverage of computer research technologies, extensive attention to the prewriting and planning stages of the assignment, and pedagogy designed to encourage students to work collaboratively. There is also unparalleled coverage of the major disciplinary documentation forms MLA, APA, CBE, and Chicago. The book also features examples from modern research sources (Citation Indexes, the Internet) not covered in other texts.

The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security. Founded by Manhattan Project Scientists, the Bulletin's iconic "Doomsday Clock" stimulates solutions for a safer world.

The detailed, practical, step-by-step advice in this user-friendly guide will help students and researchers to communicate their work more effectively through the written word. Covering all aspects of the writing process, this concise, accessible

resource is critically acclaimed, well-structured, comprehensive, and entertaining. Self-help exercises and abundant examples from actual typescripts draw on the authors' extensive experience working both as researchers and with them. Whilst retaining the user-friendly and pragmatic style of earlier editions, this third edition has been updated and broadened to incorporate such timely topics as guidelines for successful international publication, ethical and legal issues including plagiarism and falsified data, electronic publication, and text-based talks and poster presentations. With advice applicable to many writing contexts in the majority of scientific disciplines, this book is a powerful tool for improving individual skills and an eminently suitable text for classroom courses or seminars.
Planning, Proposing, and Presenting Science EffectivelyA Guide for Graduate Students and Researchers in the Behavioral Sciences and BiologyCambridge University Press

Takes the reader to a new level in proposal writing "The authors have captured the gestalt of grant writing in a lucid fashion. In short, I think students would appreciate the clarity and insights this book offers." —Robert J. Hard, University of Texas at San Antonio "As a research scientist who is frequently involved in proposal development myself, it is clear to me that the authors have travelled the grant writer's path before." —John V. Stone, Michigan State University This resource provides a step-by-step approach to turning a research idea into a proposal worthy of funding, demystifying the process as a result. The authors present a proven approach to the development of research ideas alongside a systematic treatment of proposals section-by-section and project management function-by-function. Highly accessible, this book gives examples for each aspect of the proposal development and works through sketches of ideas to fully developed proposal sections. Key Features Contains idea development linked to specific proposal sections: Supports creativity that can be captured effectively and systematically one step at a time. Uses sketches to facilitate idea development and make enhancement and revisions easy: Allows for ease in trying out alternative formulations and revising preliminary approaches. Provides international research proposals: Key to understanding resources for proposing international research collaborations. Shows how to manage a funded project: Guides researchers and research staff in effectively implementing a funded project. This book is appropriate for all graduate students across the health, social, and behavioral sciences who need guidance on writing successful, compelling funding proposals.

Publisher description

This concise guide to planning, writing, and presenting research in biology and behavioral ecology is intended for students at all levels. The guidelines apply equally to independent projects for undergraduate theses, as well as to doctoral dissertations, and research aimed at publication. The book discusses planning research, writing a research proposal (such as a formal proposal for a thesis, or for a funding agency), writing a research report (such as a graduate thesis, or a

manuscript for publication in a research journal), and presenting research at research seminars and scientific meetings. The final chapter covers writing an effective CV. An appendix gives some tips on how to write clearly.

The essential guide to successfully designing, conducting and reporting primatological research.

Earning praise from scientists, journalists, faculty, and students, The Chicago Guide to Writing about Numbers has helped thousands of writers communicate data clearly and effectively. Its publication offered a much-needed bridge between good quantitative analysis and clear expository writing, using straightforward principles and efficient prose. With this new edition, Jane Miller draws on a decade of additional experience and research, expanding her advice on reaching everyday audiences and further integrating non-print formats. Miller, an experienced teacher of research methods, statistics, and research writing, opens by introducing a set of basic principles for writing about numbers, then presents a toolkit of techniques that can be applied to prose, tables, charts, and presentations. Throughout the book, she emphasizes flexibility, showing writers that different approaches work for different kinds of data and different types of audiences. The second edition adds a chapter on writing about numbers for lay audiences, explaining how to avoid overwhelming readers with jargon and technical issues. Also new is an appendix comparing the contents and formats of speeches, research posters, and papers, to teach writers how to create all three types of communication without starting each from scratch. An expanded companion website includes new multimedia resources such as slide shows and podcasts that illustrate the concepts and techniques, along with an updated study guide of problem sets and suggested course extensions. This continues to be the only book that brings together all the tasks that go into writing about numbers, integrating advice on finding data, calculating statistics, organizing ideas, designing tables and charts, and writing prose all in one volume. Field-tested with students and professionals alike, this holistic book is the go-to guide for everyone who writes or speaks about numbers.

A world list of books in the English language.

There are many resources on grant writing in science, technology and medicine, but most do not provide the practical advice needed to write the narratives of grant proposals. Designed to help novice and experienced investigators write compelling narratives and acquire research funding, this is a detailed guide to the content, organisation, layout, phrasing, and scientific argumentation of narratives. The authors draw on more than twenty years of research and analysis of grant proposals, having worked extensively with investigators at different levels, from pre-doctoral students to senior scientists. They have used this experience to design a framework for scientific writing that you can apply directly to narratives. The guidelines and advice offered are applicable across many funding agencies, including the NIH and NSF. Featuring many real-life examples, the book covers a range of topics, from organisational alternatives to best practices in grammar and

editing, overview visuals, and working with contributors.
Coverage: 1982- current; updated: monthly. This database covers current ecology research across a wide range of disciplines, reflecting recent advances in light of growing evidence regarding global environmental change and destruction. Major ares of subject coverage include: Algae/lichens, Animals, Annelids, Aquatic ecosystems, Arachnids, Arid zones, Birds, Brackish water, Bryophytes/pteridophytes, Coastal ecosystems, Conifers, Conservation, Control, Crustaceans, Ecosyst em studies, Fungi, Grasses, Grasslands, High altitude environments, Human ecology, Insects, Legumes, Mammals, Management, Microorganisms, Molluscs, Nematodes, Paleo-ecology, Plants, Pollution studies, Reptiles, River basins, Soil, TAiga/tundra, Terrestrial ecosystems, Vertebrates, Wetlands, Woodlands.
"Provides an in-depth review of current print and electronic tools for research in numerous disciplines of biology, including dictionaries and encyclopedias, method guides, handbooks, on-line directories, and periodicals. Directs readers to an associated Web page that maintains the URLs and annotations of all major Inernet resources discussed in th
A concise, easy-to-read source of essential tips and skills for writing research papers and career management In order to be truly successful in the biomedical professions, one must have excellent communication skills and networking abilities. Of equal importance is the possession of sufficient clinical knowledge, as well as a proficiency in conducting research and writing scientific papers. This unique and important book provides medical students and residents with the most commonly encountered topics in the academic and professional lifestyle, teaching them all of the practical nuances that are often only learned through experience. Written by a team of experienced professionals to help guide younger researchers, A Guide to the Scientific Career: Virtues, Communication, Research and Academic Writing features ten sections composed of seventy-four chapters that cover: qualities of research scientists; career satisfaction and its determinants; publishing in academic medicine; assessing a researcher’s scientific productivity and scholarly impact; manners in academics; communication skills; essence of collaborative research; dealing with manipulative people; writing and scientific misconduct: ethical and legal aspects; plagiarism; research regulations, proposals, grants, and practice; publication and resources; tips on writing every type of paper and report; and much more. An easy-to-read source of essential tips and skills for scientific research Emphasizes good communication skills, sound clinical judgment, knowledge of research methodology, and good writing skills Offers comprehensive guidelines that address every aspect of the medical student/resident academic and professional lifestyle Combines elements of a career-management guide and publication guide in one comprehensive reference source Includes selected personal stories by great researchers, fascinating writers, inspiring mentors, and extraordinary clinicians/scientists A Guide to the Scientific Career: Virtues, Communication,

Research and Academic Writing is an excellent interdisciplinary text that will appeal to all medical students and scientists who seek to improve their writing and communication skills in order to make the most of their chosen career.
Contains 33 essays, originally published in Natural History magazine, reporting on field studies of free-ranging primates. Written by respected academics and field biologists, contributions are divided into four sections: social behavior, cognition, and intelligence; community ecology; diet and reproduction; and human-nonhuman primate interaction and conservation. Annotation copyrighted by Book News, Inc., Portland, OR.
Science, engineering, and technology permeate nearly every facet of modern life and hold the key to solving many of humanity's most pressing current and future challenges. The United States' position in the global economy is declining, in part because U.S. workers lack fundamental knowledge in these fields. To address the critical issues of U.S. competitiveness and to better prepare the workforce, A Framework for K-12 Science Education proposes a new approach to K-12 science education that will capture students' interest and provide them with the necessary foundational knowledge in the field. A Framework for K-12 Science Education outlines a broad set of expectations for students in science and engineering in grades K-12. These expectations will inform the development of new standards for K-12 science education and, subsequently, revisions to curriculum, instruction, assessment, and professional development for educators. This book identifies three dimensions that convey the core ideas and practices around which science and engineering education in these grades should be built. These three dimensions are: crosscutting concepts that unify the study of science through their common application across science and engineering; scientific and engineering practices; and disciplinary core ideas in the physical sciences, life sciences, and earth and space sciences and for engineering, technology, and the applications of science. The overarching goal is for all high school graduates to have sufficient knowledge of science and engineering to engage in public discussions on science-related issues, be careful consumers of scientific and technical information, and enter the careers of their choice. A Framework for K-12 Science Education is the first step in a process that can inform state-level decisions and achieve a research-grounded basis for improving science instruction and learning across the country. The book will guide standards developers, teachers, curriculum designers, assessment developers, state and district science administrators, and educators who teach science in informal environments.
Late in the 1930s, the U.S. Department of Agriculture set up a national network of local organizations that joined farmers with public administrators, adult-educators, and social scientists. The aim was to localize and unify earlier New Deal programs concerning soil conservation, farm production control, tenure security, and other reforms, and by 1941 some 200,000 farm people were involved. Even so, conservative anti–New Dealers killed the successful program

the next year. This book reexamines the era's agricultural policy and tells the neglected story of the New Deal agrarian leaders and their visionary ideas about land, democratization, and progressive social change.

Despite a history of more than 30 years, forensic anthropology is, in many ways, still in its infancy. Its early practitioners were by necessity self-taught, and the field has developed in a largely reactionary, ad hoc manner. This text, designed for advanced undergraduate and graduate coursesin forensic anthropology, provides information that reflects the current and future needs of this rapidly professionalizing field. It unites theoretical and methodological knowledge drawn from anthropology and the forensic sciences and offers thought-provoking case studies and discussion. Co-writtenby a foremost authority in the field of forensic anthropology and an anthropologist whose fieldwork for a medical examiner's office has included forensic identification in Bosnia, Kosovo, Iraq, and Darfur, this volume is the first comprehensive forensic anthropology text; it examines medical, legal,ethical, and humanitarian issues associated with forensic anthropology, biohistory (the use of modern forensic methods in identifying remains of prominent historical figures), and current forensic methods.

Many different people, from social scientists to government agencies to business professionals, depend on the results of multivariate models to inform their decisions. Researchers use these advanced statistical techniques to analyze relationships among multiple variables, such as how exercise and weight relate to the risk of heart disease, or how unemployment and interest rates affect economic growth. Yet, despite the widespread need to plainly and effectively explain the results of multivariate analyses to varied audiences, few are properly taught this critical skill. The Chicago Guide to Writing about Multivariate Analysis is the book researchers turn to when looking for guidance on how to clearly present statistical results and break through the jargon that often clouds writing about applications of statistical analysis. This new edition features even more topics and real-world examples, making it the must-have resource for anyone who needs to communicate complex research results. For this second edition, Jane E. Miller includes four new chapters that cover writing about interactions, writing about event history analysis, writing about multilevel models, and the "Goldilocks principle" for choosing the right size contrast for interpreting results for different variables. In addition, she has updated or added numerous examples, while retaining her clear voice and focus on writers thinking critically about their intended audience and objective. Online podcasts, templates, and an updated study guide will help readers apply skills from the book to their own projects and courses. This continues to be the only book that brings together all of the steps involved in communicating findings based on multivariate analysis—finding data, creating variables, estimating statistical models, calculating overall effects, organizing ideas, designing tables and charts, and writing prose—in a single volume. When aligned with Miller's twelve fundamental principles for quantitative writing, this approach will empower readers—whether

students or experienced researchers—to communicate their findings clearly and effectively.

This book is a comprehensive guide to scientific communication that has been used widely in courses and workshops as well as by individual scientists and other professionals since its first publication in 2002. This revision accounts for the many ways in which the globalization of research and the changing media landscape have altered scientific communication over the past decade. With an increased focus throughout on how research is communicated in industry, government, and non-profit centers as well as in academia, it now covers such topics as the opportunities and perils of online publishing, the need for translation skills, and the communication of scientific findings to the broader world, both directly through speaking and writing and through the filter of traditional and social media. It also offers advice for those whose research concerns controversial issues, such as climate change and emerging viruses, in which clear and accurate communication is especially critical to the scientific community and the wider world.

Providing practical advice to students on how to write for biology, this book shows how to write for a particular audience, self evaluate drafts, and paraphrase for improved comprehension.

With a section on ethical issues, this book is suitable for social science researchers and their students.

A comprehensive work on the European space sector.

The Craft of Scientific Presentations, 2nd edition aims to strengthen you as a presenter of science and engineering. The book does so by identifying what makes excellent presenters such as Brian Cox, Jane Goodall, Richard Feynman, and Jill Bolte Taylor so strong. In addition, the book explains what causes so many scientific presentations to flounder. One of the most valuable contributions of this text is that it teaches the assertion-evidence approach to scientific presentations. Instead of building presentations, as most engineers and scientists do, on the weak foundation of topic phrases and bulleted lists, this assertion-evidence approach calls for building presentations on succinct message assertions supported by visual evidence. Unlike the commonly followed topic-subtopic approach that PowerPoint leads presenters to use, the assertion-evidence approach is solidly grounded in research. By showing the differences between strong and weak presentations, by identifying the errors that scientific presenters typically make, and by teaching a much more powerful approach for scientific presentations than what is commonly practiced, this book places you in a position to elevate your presentations to a high level. In essence, this book aims to have you not just succeed in your scientific presentations, but excel. About the Author Michael Alley has taught workshops on presentations to engineers and scientists on five continents, and has recently been invited to speak at the European Space Organization, Harvard Medical School, MIT, Sandia National Labs, Shanghai Jiao Tong University, Simula Research Laboratory, and United Technologies. An Associate Professor of engineering communication at Pennsylvania State University, Alley is a leading researcher on the effectiveness of different designs for presentation slides.

Vehicle routing problems, among the most studied in combinatorial optimization, arise in many practical contexts (freight distribution and collection, transportation, garbage collection, newspaper delivery, etc.). Operations researchers have made significant developments in the algorithms for their solution, and÷Vehicle Routing: Problems, Methods, and Applications,

Second Edition÷reflects these advances. The text of the new edition is either completely new or significantly revised and provides extensive and complete state-of-the-art coverage of vehicle routing by those who have done most of the innovative research in the area; it emphasizes methodology related to specific classes of vehicle routing problems and, since vehicle routing is used as a benchmark for all new solution techniques, contains a complete overview of current solutions to combinatorial optimization problems. It also includes several chapters on important and emerging applications, such as disaster relief and green vehicle routing.÷