

Whitesides' Group: Writing a Paper**

By George M. Whitesides*

1. What is a Scientific Paper?

A paper is an organized description of hypotheses, data and conclusions, intended to instruct the reader. Papers are a central part of research. If your research does not generate papers, it might just as well not have been done. "Interesting and unpublished" is equivalent to "non-existent".

Realize that your objective in research is to formulate and test hypotheses, to draw conclusions from these tests, and to teach these conclusions to others. Your objective is not to "collect data".

A paper is not just an archival device for storing a completed research program; it is also a structure for planning your research in progress. If you clearly understand the purpose and form of a paper, it can be immensely useful to you in organizing and conducting your research. A good outline for the paper is also a good plan for the research program. You should write and rewrite these plans/outlines throughout the course of the research. At the beginning, you will have mostly plan; at the end, mostly outline. The continuous effort to understand, analyze, summarize, and reformulate hypotheses on paper will be immensely more efficient for you than a process in which you collect data and only start to organize them when their collection is "complete".

2. Outlines

2.1. The Reason for Outlines

I emphasize the central place of an outline in writing papers, preparing seminars, and planning research. I especially believe that for you, and for me, it is most efficient to write papers from outlines. An outline is a written plan of the organization of a paper, including the data on which it rests. You should, in fact, think of an outline as a carefully organized and presented set of data, with attendant objectives, hypotheses, and conclusions, rather than an outline of text.

An outline itself contains little text. If you and I can agree on the details of the outline (that is, on the data and organization), the supporting text can be assembled fairly easily. If we

do not agree on the outline, any text is useless. Much of the time in writing a paper goes into the text; most of the thought goes into the organization of the data and into the analysis. It can be relatively efficient in time to go through several (even many) cycles of an outline before beginning to write text; writing many versions of the full text of a paper is slow.

All writing that I do—papers, reports, proposals (and, of course, slides for seminars)—I do from outlines. I urge you to learn how to use them as well.

2.2. How Should You Construct an Outline?

The classical approach is to start with a blank piece of paper, and write down, in any order, all important ideas that occur to you concerning the paper. Ask yourself the obvious questions: "Why did I do this work?"; "What does it mean?"; "What hypotheses did I mean to test?"; "What ones did I actually test?"; "What were the results? Did the work yield a new method of compound? What?"; "What measurements did I make?"; "What compounds? How were they characterized?"; Sketch possible equations, figures, and schemes. It is essential to try to get the major ideas. If you start the research to test one hypothesis, and decide, when you see what you have, that the data really seem to test some other hypothesis better, don't worry. Write them both down, and pick the best combinations of hypotheses, objectives, and data. Often the objectives of a paper when it is finished are different from those used to justify starting the work. Much of good science is opportunistic and revisionist.

When you have written down what you can, start with another piece of paper and try to organize the jumble of the first one. Sort all of your ideas into three major heaps (1–3).

1. Introduction

Why did I do the work? What were the central motivations and hypotheses?

2. Results and Discussion

What were the results? How were compounds made and characterized? What was measured?

3. Conclusions

What does it all mean? What hypotheses were proved or disproved? What did I learn? Why does it make a difference?

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[**] The text is based on a handout created on October 4, 1989.

Whitesides Group Writing A Paper

Mike Jess



Whitesides Group Writing A Paper:

, *Managing the Drug Discovery Process* Susan Miller, Walter Moos, Barbara Munk, Stephen Munk, 2016-11-08
Managing the Drug Discovery Process How to Make It More Efficient and Cost Effective thoroughly examines the current state of pharmaceutical research and development by providing chemistry based perspectives on biomedical research drug hunting and innovation The book also considers the interplay of stakeholders consumers and the drug firm with attendant factors including those that are technical legal economic demographic political social ecological and infrastructural Since drug research can be a high risk high payoff industry it is important to researchers to effectively and strategically manage the drug discovery process This book takes a closer look at increasing pre approval costs for new drugs and examines not only why these increases occur but also how they can be overcome to ensure a robust pharmacoeconomic future Written in an engaging manner and including memorable insights this book is aimed at redirecting the drug discovery process to make it more efficient and cost effective in order to achieve the goal of saving countless more lives through science A valuable and compelling resource this is a must read for all students and researchers in academia and the pharmaceutical industry Considers drug discovery in multiple R D venues including big pharma large biotech start up ventures academia and nonprofit research institutes Analyzes the organization of pharmaceutical R D taking into account human resources considerations like recruitment and configuration management of discovery and development processes and the coordination of internal research within and beyond the organization including outsourced work Presents a consistent well connected and logical dialogue that readers will find both comprehensive and approachable **Becoming a Successful Early Career Researcher** Adrian R. Eley, 2012 This guide will help academics at the start of their career no matter what discipline they are engaged in Arts Humanities Sciences or Social Sciences **The Craft of Scientific Writing** Michael Alley, 2018-03-21 The Craft of Scientific Writing is designed to help scientists and engineers both professionals already active in the disciplines as well as students preparing to enter the professions write about their work clearly and effectively Written for use as a text in courses on scientific writing the book includes many useful suggestions about approaching a wide variety of writing tasks from journal papers to grant proposals and from emails to formal reports as well as a concise guide to style and usage appropriate for scientific writing Also useful for self study the book will be an important reference for all scientists and engineers who need to write about their work With this new and updated fourth edition while most technical writing texts have gotten larger over the years this one has streamlined to provide busy readers with the essence of what distinguishes the style of the best scientific documents With this new edition readers will learn not just how to organize information but how to emphasize the key details of that information Also readers will not just learn how to cast their ideas into precise and clear sentences but how to connect these sentences in an energetic fashion In the section on language the new edition goes into much depth about how to make connections between ideas an important issue that few technical writing texts address

Moreover the new edition integrates the discussion of illustrations with language because those two aspects of style are so intertwined Finally the new edition does a better job of explaining how to make the process of writing more efficient From a review of the first edition A refreshing addition to a genre dominated by English teacher style textbooks Instead of listing rules that constrain writers the book uses examples to lay out the path to successful communication Especially helpful and entertaining is the chapter on the writing process Anyone who has spent more time avoiding a writing task than actually doing it will appreciate Alley's tips Dr Ellen Ochoa Deputy Director of Flight Crew Operations Johnson Space Center

Smoothing a Critical Transition Xiaolong Hu, 2020-04-20 This textbook equips students interested in becoming researchers with the essential nontechnical skills After an introduction to graduate schools it discusses preparing for research reading and organizing literature writing research articles and other documents publishing papers presenting research findings at conferences collaboration with advisors and other researchers patent applications research ethics and how to improve research by learning about the history of science These nontechnical skills are just as important as technical ones in terms of becoming a successful graduate student yet they have seldom been taught systematically in courses Further they can bridge the gap from the classroom to the lab making one of the most critical transition periods from student to researcher smoother and more enjoyable The book features a wealth of real life examples and exercises which readers can easily apply in their own research Intended mainly for graduate and upper undergraduate students just embarking on lab research it can also be used as a textbook or reference guide for courses on research methodology and related topics

Critical Reading Across the Curriculum, Volume 2 Anton Borst, Robert DiYanni, 2020-02-17 Provides educators with practical strategies tools and techniques for teaching critical reading skills to students in the social and natural sciences Strong critical reading skills are an essential part of any student's academic success Teaching these vital skills requires educators to develop and implement effective teaching strategies often based on their own critical reading practices Critical Reading Across the Curriculum Volume 2 Social and Natural Sciences provides educators with expert insights real world methods and proven strategies to build critical reading skills in students across disciplines Drawing from the experience of seasoned classroom practitioners this book presents a dozen essays that offer various applications of critical reading best practices in fields such as anthropology biology economics engineering political science and sociology Clear jargon free chapters identify explain and illustrate best teaching practices for critical reading Containing numerous practical examples and demonstrations essays written by experts in their respective fields explain what critical reading requires for their discipline as well as how to teach those skills in the classroom Every essay includes a host of pedagogical activities assignments and projects that can be used directly or adapted for diverse teaching applications This valuable book helps educators Develop the skills students need to ask the right questions consider sources assess evidence evaluate arguments and reason critically Encourage students to practice critical reading skills with engaging exercises and activities Teach

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Liquid Metal Biomaterials Jing Liu,Liting Yi,2018-07-14 This is the first ever book to illustrate the principles and applications of liquid metal biomaterials Room temperature liquid metal materials are rapidly emerging as next generation functional materials that display many unconventional properties superior to those of conventional biomaterials Their outstanding unique versatility one material diverse capabilities opens many exciting opportunities for the medical sciences The book reviews representative applications of liquid metal biomaterials from both therapeutic and diagnostic aspects It also discusses related efforts to employ liquid metals to overcome today s biomedical challenges It will provide readers with a comprehensive understanding of the technical advances and fundamental discoveries on the frontier and thus equip them to investigate and utilize liquid metal biomaterials to tackle various critical problems Distillation Processes Vilmar

Steffen,2022-08-31 Distillation is an important separation technique that has been used for many centuries to exploit the volatility differences between components in a mixture The distillation process has many variations and applications This book includes two sections on desalination and reactive distillation It discusses desalination in the processes of solar and membrane distillation with a focus on the reduction of energy costs to obtain potable water It also discusses reactive distillation which can be used in some cases to reduce the power duty in the separation process by using the reaction heat directly in the separation The book includes cases of mathematical modeling simulation and optimization of the distillation process Microbial Community Modeling: Prediction of Microbial Interactions and Community Dynamics Hyun-Seob

Song,2018-07-04 This book is a printed edition of the Special Issue Microbial Community Modeling Prediction of Microbial Interactions and Community Dynamics that was published in Processes *Survival Skills For Scientists* Federico

Rosei,Tudor Wyatt Johnston,2006-07-17 This book provides young scientists from physicists through to sociologists the counsel and tools that are needed to be their own agents and planners to survive and succeed hopefully even thrive in science Making a good career based on peer reviewed science means navigating many stressful phases from graduate school through to permanent employment Performing artists pay agents to help them in this effort In effect this book is designed to allow you to act as your own agent You are counseled to analyze yourself deeply to know clearly what you want and whether you can live with it how to make career choices and what you should then keep in mind when to fight and when to yield The unwritten rules of the science game are explained including how to become published and known the pitfalls of peer review and how to evade them papers and posters job interviews and getting your science funded Interspersed with this are illustrative anecdotes and a fair amount of humor While the book is aimed at young scientists from graduate students and

beyond more senior scientists will benefit from seeing the world from the point of view of rising scientists and become aware of the preoccupations of people in a system which has changed much from when the present senior scientists were rather younger a

Human Subject Research for Engineers Joost C.F. de Winter, Dimitra Dodou, 2017-05-17 This Brief introduces engineers to the main principles in ethics research design statistics and publishing of human subject research In recent years engineering has become strongly connected to disciplines such as biology medicine and psychology Often engineers and engineering students are expected to perform human subject research Typical human subject research topics conducted by engineers include human computer interaction e g evaluating the usability of software exoskeletons virtual reality teleoperation modelling of human behaviour and decision making often within the framework of big data research product evaluation biometrics behavioural tracking e g of work and travel patterns or mobile phone use transport and planning e g an analysis of flows or safety issues etc Thus it can be said that knowledge on how to do human subject research is indispensable for a substantial portion of engineers Engineers are generally well trained in calculus and mechanics but may lack the appropriate knowledge on how to do research with human participants In order to do high quality human subject research in an ethical manner several guidelines have to be followed and pitfalls have to be avoided This book discusses these guidelines and pitfalls The aim is to prepare engineers and engineering students to carry out independent research in a responsible manner

Research and Publication Ethics Prof (Dr.) V. K. Ahuja ,Dr. Kankana Baishya, 2024-01-22 The book *Research and Publication Ethics* is published by National Law University and Judicial Academy Assam with the sole objective to help researchers for the responsible conduct of research National Law University and Judicial Academy Assam was established by the National Law University and Judicial Academy Assam Act 2009 Act No XXV of 2009 as the fourteenth National Law University of the country in Guwahati the capital city of Assam National Law University and Judicial Academy Assam is committed to inculcate academic excellence for preparing leaders of law who shape the country by their knowledge wisdom discovery and creativity Further the University is committed to cultivate an inclusive environment that celebrates plurality and leverages on the creative potential of diversity The University strives for a distinctive niche in the academic firmament of the country as a forbearer of creative ideation and leadership development University Grants Commission in its 543rd meeting held on 9th August 2019 approved Two Credit Course for awareness about publication ethics and publication misconducts entitled *Research and Publication Ethics RPE* to be made compulsory for all Ph D students for pre registration coursework Therefore the book aims to achieve the objectives of University Grants Commission and intends to provide the concepts of *Research and Publication Ethics* in a more comprehensive way It is expected to gain more insights on the Academic integrity in the realm of new technological influxes

Information Technology for Education, Science, and Technics Emil Faure, Yuriy Tryus, Tero Vartiainen, Olena Danchenko, Maksym Bondarenko, Constantine Bazilo, Grygoriy Zaspas, 2024-10-02 This book deals with issues related to multi faceted applications

of information and communication technology in research engineering robotics automation of technological processes complex systems and computer networks as well as mathematical and computer modelling of physical chemical and economic processes In this book the authors explore various aspects of information and communication technology and systems and their integration into science engineering automation and economics The authors develop new models methods and approaches for monitoring and controlling systems communication networks artificial intelligence applications and digital resilience The book is of interest to experts in the field of information and communication technology and systems scientists and Ph D students

Analysis in Nutrition Research George Pounis, 2018-10-19 *Analysis in Nutrition Research* Principles of Statistical Methodology and Interpretation of the Results describes in a comprehensive manner the methodologies of quantitative analysis of data originating specifically from nutrition studies The book summarizes various study designs in nutrition research research hypotheses the proper management of dietary data and analytical methodologies with a specific focus on how to interpret the results of any given study In addition it provides a comprehensive overview of the methodologies used in study design and the management and analysis of collected data paying particular attention to all of the available modern methodologies and techniques Users will find an overview of the recent challenges and debates in the field of nutrition research that will define major research hypotheses for research in the next ten years Nutrition scientists researchers and undergraduate and postgraduate students will benefit from this thorough publication on the topic Provides a comprehensive presentation of the various study designs applied in nutrition research Contains a parallel description of statistical methodologies used for each study design Presents data management methodologies used specifically in nutrition research Describes methodologies using both a theoretical and applied approach Illustrates modern techniques in dietary pattern analysis Summarizes current topics in the field of nutrition research that will define major research hypotheses for research in the next ten years

Communicate Science Papers, Presentations, and Posters Effectively Gregory S. Patience, Daria C. Boffito, Paul Patience, 2015-09-03 *Communicate Science Papers Presentations and Posters Effectively* is a guidebook on science writing and communication that professors students and professionals in the STEM fields can use in a practical way This book advocates a clear and concise writing and presenting style enabling users to concentrate on content The text is useful to both native and non native English speakers The book includes chapters on the publishing industry discussing bibliometrics h indexes and citations plagiarism and how to report data properly It also offers practical guidance for writing equations and provides the reader with extensive practice material consisting of both exercises and solutions Covers how to accurately and clearly exhibit results ideas and conclusions Identifies phrases common in scientific literature that should never be used Discusses the theory of presentation including before and after examples highlighting best practices Provides concrete step by step examples on how to make camera ready graphs and tables

Advanced Methodologies and Technologies in Library Science, Information Management, and Scholarly Inquiry

Khosrow-Pour, D.B.A., Mehdi, 2018-11-02 As the academic and scholarly landscape are continuously enhanced by the advent of new technology librarians must be aware and informed to develop and implement best practices Effective administration of libraries is a crucial part of delivering library services to patrons and ensuring that information resources are disseminated efficiently Advanced Methodologies and Technologies in Library Science Information Management and Scholarly Inquiry provides emerging information on modern knowledge management and effective means of sharing research through libraries While highlighting the importance of digital literacy and information resources readers will also learn new methods in information retrieval and research methods in quality scholarly inquiry This book is an important resource for librarians administrators information science professionals information technology specialists students and researchers seeking current information on the importance of effective library science technology

Chemical Information for Chemists Judith N

Currano, Dana L Roth, 2014 A chemical information book aimed specifically at practicing chemists Useful for students in undergraduate and graduate courses it could also be a guide to new information specialists who are facing the challenging diversity of chemical literature

Artificial Neural Networks for Renewable Energy Systems and Real-World Applications

Ammar Hamed Elsheikh, Mohamed Abd Elaziz, 2022-09-08 Artificial Neural Networks for Renewable Energy Systems and Real World Applications presents current trends for the solution of complex engineering problems in the application modeling analysis and optimization of different energy systems and manufacturing processes With growing research catering to the applications of neural networks in specific industrial applications this reference provides a single resource catering to a broader perspective of ANN in renewable energy systems and manufacturing processes ANN based methods have attracted the attention of scientists and researchers in different engineering and industrial disciplines making this book a useful reference for all researchers and engineers interested in artificial networks renewable energy systems and manufacturing process analysis Includes illustrative examples on the design and development of ANNS for renewable and manufacturing applications Features computer aided simulations presented as algorithms pseudocodes and flowcharts Covers ANN theory for easy reference in subsequent technology specific sections

Alternative Careers in Science Christopher Avery, Brian J.

Walker, 2020-06-30 This book emerged from shared interests and conversations over many years between former Ph D chemists now leaders in science policy and industry who all share a commitment to public service While the training of Ph D chemists is generally targeted at a research career the opportunities that lie beyond the degree are much more diverse Nine Ph D chemists who chose careers outside of academia describe their career choices and reflect on advice they have looking back on their career path for those just starting theirs If the stories in these pages speak to you Welcome to the family

Solar Desalination Technology Anil Kumar, Om Prakash, 2019-04-23 This book presents the latest developments and

advances in solar desalination technology including the concept design testing modeling economics and innovation The chapters in this volume are contributed by leading international researchers and are based on original research material The

contents of this volume will be of interest to researchers professionals and policymakers alike

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