

Scientific research reports

Format of research reports in the faculty of Science

Research reports in the Sciences contain common elements and generally follow the basic format outlined as follows:

Title

Your title should be brief, topic-specific and informative, clearly indicating the purpose and scope of your study. Include key words in your title so that search engines can easily access your work. Example:

Measurement of water flows around Station Pier

Abstract

An abstract is a concise summary that enables readers to quickly assess the contents and direction of your paper.

It should be brief (around 5% of the total), written in a single paragraph and should cover the scope and purpose of your paper.

For more information on writing an abstract please refer to the Academic Skills Ryerson: Writing an Abstract.

Introduction

The introduction sets the context for your research. It should supply sufficient background to allow the reader to understand and evaluate the present study without needing to refer to previous publications.

After reading the introduction your reader should understand exactly what your research is about, what you plan to do, why you are undertaking this research and which methods you have used.

Introductions generally include:

- the rationale for the present study. Why are you interested in this topic? Why is this topic worth investigating?
- key terms and definitions
- an outline of the research questions and hypotheses; the assumptions or propositions that your research will test.

Literature Review

A literature review is a critical survey of recent relevant research in a particular field. Its purpose is both to offer the reader an overview of the current state of research and to situate your paper within that research.

Frequently, the review is part of the introduction.

The review should be a selection of carefully organised, focused and relevant literature that develops a narrative "story" about your topic. Your review should answer key questions about the literature:

- What is the current state of knowledge on the topic?
- What differences in approaches / methodologies are there?
- Where are the strengths and weaknesses of the research?
- What further research is needed?

The review may identify a gap in the literature which provides a rationale for your study and supports your research questions and methodology.

Methodology (Materials and Methods)

The purpose of this section is to detail how you conducted your research so that others can understand and replicate your approach. You need to briefly describe the subjects (if appropriate), any equipment or materials used and the approach taken.

If the research method or method of data analysis is commonly used within your field of study, then simply reference the procedure. If, however, your methods are new or controversial then you need to describe them in more detail and provide a rationale for your approach.

The methodology is always written in the past tense. This section should be written succinctly.

Results

This section is a concise, tabular or graphic summary of your findings, listed under headings appropriate to your research questions.

Present your results in a consistent manner. For example, if you present the first group of results as percentages, it will be confusing for the reader and difficult to make comparisons of data if later results are presented as fractions or as decimal values.

Do not discuss your results here. Any analysis of your results occurs in the Discussion section.

Raw data or details about the method of statistical analysis used should be included in the Appendices.

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Judd E. Hollander

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Connor's experience as both research scientist and educator synergize to improve both the science and art of scientific writing. If the authors' goal is to give scientists the tools to write and publish compelling well documented clear narratives that convey their work honestly and in proper context they have succeeded admirably. *Veterinary Pathology* July 2009. The book is clearly written, has a logical step by step structure, is easy to read and contains a lot of sensible advice about how to get scientific work published in international journals. The book is a most useful addition to the literature covering scientific writing. *Aquaculture International* April 2009. *Writing Scientific Research Articles Strategy and Steps* guides authors in how to write as well as what to write to improve their chances of having their articles accepted for publication in international peer reviewed journals. The book is designed for scientists who use English as a first or an additional language for research students and those who teach them paper writing skills and for early career researchers wanting to hone their skills as authors and mentors. It provides clear processes for selecting target journals and writing each section of a manuscript starting with the results. The stepwise learning process uses practical exercises to develop writing and data presentation skills through analysis of well written example papers. Strategies are presented for responding to referee comments as well as ideas for developing discipline specific English language skills for manuscript writing. The book is designed for use by individuals or in a class setting. Visit the companion site at www.writeresearch.com.au for more information. **Mastering Academic Writing in the Sciences** Marialuisa Aliotta, 2018-04-17. This book provides a comprehensive and coherent step by step guide to writing in scientific academic disciplines. It is an invaluable resource for those working on a PhD thesis, research paper, dissertation or report. Writing these documents can be a long and arduous experience for students and their supervisors and even for experienced researchers. However, this book can hold the key to success. Mapping the steps involved in the writing process from acquiring and organizing sources of information to revising early drafts to proofreading the final product, it provides clear guidance on what to write and how best to write it. Features: Step by step approach to academic writing in scientific disciplines; Ideal guidance for PhD theses, papers, grant applications, reports and more; Includes worked out examples from real research papers and PhD theses; and templates and worksheets are available online to help readers put specific tasks into practice. **Integrity of Scientific Research** Joel Faintuch, Salomão Faintuch, 2022-10-13. This book provides a scientific and ethical approach to all forms of fraud and misconduct, focusing on a scholarly however practice oriented description of the problems, roots and potential solutions. Organized in dedicated parts, an international team of experts systematically analyzes the most prevalent forms of misconduct: ghost writing, pseudo science, dubious trials, predatory journals, fake news, mistreatment and harassment in research publications at academic institutions and in the professional and healthcare environment. A special focus is given to corrective interventions and the role of prevention, education and training. Comprehensive in its scope, the book offers an easy to read overview along with a number of real cases for experienced and novice personnel alike. The significance of scientific integrity and research ethics increased during

the last couple of years and ethic committees and offices have become an integral part at universities hospitals research institutions government agencies and major private organizations all over the world Thus this book provides an indispensable comprehensive overview across disciplines and for everybody working in research and affiliated institutions Chapter 37 is available open access under a Creative Commons Attribution 4.0 International License via link [springer.com](http://link.springer.com) **JOURNAL OF SCIENCE AND ENGINEERING** , *The Essentials of Political Analysis* Philip H. Pollock III, Barry C. Edwards, 2024-12-20 Equip students with the skills and confidence they need to conduct political analyses and critically assess statistical research In the Seventh Edition of *The Essentials of Political Science* bestselling authors Philip H. Pollock III and Barry C. Edwards build students analytic abilities and develop their statistical reasoning with new data, fresh exercises, and clear examples This brief and reader friendly guide walks students through the essentials defining measurement, formulating and testing hypotheses, measuring variables while using key terms chapter opening objectives over 80 tables and figures and practical exercises to get them using and applying their new skills Using Excel, R, SPSS or STATA Companion workbooks featuring statistical software instructions and exercises help your students apply their knowledge **Research in Education** , 1971

Writing Papers in the Biological Sciences Victoria E. McMillan, 2012-01-15 Written by a professional biologist who is also an experienced writing teacher this comprehensive guide for students writing in biology, zoology and botany provides detailed instruction on researching, drafting, revising and documenting papers, reviews, poster presentations and other forms of writing **Advanced Materials Researches, Engineering and Manufacturing Technologies in Industry** Hong Hua Tan, 2013-09-04 Selected peer reviewed papers from the 2013 2nd International Symposium on Materials Science and Engineering Technology ISMSET 2013 July 27-29 2013 Singapore **Abstracts of Papers** American Association for the Advancement of Science. National Meeting, 1989 *Advance Papers of the Conference* , 1975 **Advance Papers** , 1975

Scientific American , 1928 Monthly magazine devoted to topics of general scientific interest **Popular Science Monthly** , 1930 **Proceedings of the Seventh International Joint Conference on Artificial Intelligence** Ann Drinan, 1981

Engineering , 1922 **Eloquent Science** David M. Schultz, 2009 Eloquent Science A Practical Guide to Becoming a Better Writer Speaker Atmospheric Scientist was conceived from a workshop taught over six years to undergraduate students at a summer research experience The volume is divided into three parts writing, reviewing, and speaking and offers tips on poster presentations, media communication, and advice for non-native speakers of English as well as appendices on proper punctuation usage and meteorological concepts Sidebars written by experts in the field offer diverse viewpoints on reference topics important to the reader and a recommended reading section at the end of the book guides the reader to the best additional resources **Papers Presented at the ... Meeting** American Chemical Society. Division of Polymer Chemistry, 1991 **Current Index to Journals in Education** , 1998 **Yale Scientific** , 2001

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