

# Laboratory Reports, Reflective Essays, and the Contributing Student Approach

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#### OVERVIEW

Requesting reflective essays instead of technical reports has led to students observing more, writing more, developing their own personal writing style, and becoming more self-aware and self-critical. The essays complement a course taught using Collis' Contributing Student Approach by providing a rich source of material for use in subsequent learning resources such as course notes and self-evaluation quizzes. They also provide timely feedback, both for the students and for the lecturer, and help foster a collaborative, supportive learning environment.

#### Keywords

Laboratory report, reflective essay, contributing student approach.

#### INFORMATION ABOUT THE CLASS

The context of this case study is an introductory BE(Software Engineering) course on Data Structures and Algorithms. The course is now in its seventh year, and typically has an enrolment between 30 and 60 students (currently 35). The BE is a largely prescribed degree, and the course is compulsory for all SE students. The institution is a research-led University in New Zealand, and most University courses follow a traditional lecture model. Entry standards for Engineering are relatively high, and the students are generally capable and motivated. All students entering the Software Engineering specialty are computer literate, albeit with varying confidence in programming.

The class is taught using elements of the "contributing student" approach of Betty Collis (Collis 2005). Instead of traditional coursework assignments, students are asked to prepare learning resources on course topics to share with other students. Contributions can include notes, worked examples, software visualizations, self-assessment quizzes, annotated reading lists, etc.

Assessment is dominated by a test and final examination (together 75%). Laboratory work contributes 10%, and the remaining 15% is awarded for student contributions. Lectures (renamed "class meetings") follow a student-driven agenda, and include a mixture of lectured material and (increasingly, as the course progresses) student presentations. A "wiki wiki web" (Wikipedia, 2006) is used as a collaboration tool, for students to upload and share their contributions, lab reports, peer-reviews and other course-related material.

# **Reflections On Biological Research**

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## **Reflections On Biological Research:**

Reflections on Biological Research. Ed. G. Gabbiani Giulio GABBIANI, 1967 **Clinical Psychology Reflections Volume 4** Connor Whiteley, 2024-04-19 Clinical psychology applies psychological knowledge and theory to mental health conditions But psychology students and professionals know information in textbooks and lecture theatres miss real world issues sometimes Can we fix this Join bestselling psychology author Connor Whiteley reflecting on outstanding critical topics problems and more facing clinical psychology in this brilliant engaging book going far beyond the textbooks and lecture theatres If you want to expand your knowledge of clinical psychology in the real world You MUST read this absolutely unputdownable and brilliant book BUY NOW Clinical Psychology Reflections Volume 4 Includes Introduction Poverty Factors In Mental Health And Cost Of Living Crisis Why There Needs To Be More Support For Researchers Why You Need To Have An Experimental Attitude In Your Degree Why You Need An Experimental Attitude In Psychotherapy Why Start With Cognitive Behavioural Therapy Is Good Why You Know More Than You Think Why Each Psychology Subfield Is An Echo Chamber Why People Believe Mental Health Is Its Own Angle In Psychology Why Broadening Our Definition Of Therapy Might Be A Good Thing Meaning Of Fiction Hope And Some Weird Links To Clinical Psychology A Continuation Positivity In TV And More Why Do You Need To Make Sure You Enjoy Your Clinical Psychology Journey The Most Important Question In Research How Anger Drives Action Another Example Of The Power Of Language A Great One For Parents Why Psychometric And Personal Goals Are Critical In Psychotherapy The Value Of Informally Talking To Service Users Why Psychology Organisations At Pride Events Is Interesting The Power Of CBT Pie Charts Meta-Philosophical Reflection on Feminist Philosophies of Science Maria Cristina Amoretti, Nicla Vassallo, 2015-12-21 This volume offers a meta philosophical reflection on feminist philosophies of science It emphasizes and discusses both the connections and differences between traditional philosophies of science and feminist philosophies of science The collection systematically analyses feminist contributions to the various philosophies of specific sciences Each chapter is devoted to a specific area of philosophy of science general philosophy of science philosophy of biology philosophy of climate sciences philosophy of cognitive sciences and neurosciences philosophy of economics philosophy of history and archaeology philosophy of logic and mathematics philosophy of medicine philosophy of psychology philosophy of physics and philosophy of social sciences Since some of these areas have so far rarely been addressed by feminist philosophers this new collection provides new angels and stimulates the debate on pivotal issues that are part and parcel of both traditional philosophies of science and feminist philosophies of science Using a range of different methodologies and styles the essays all show great clarity in both arguments and contents

<u>A Critical Reflection on Automated Science</u> Marta Bertolaso, Fabio Sterpetti, 2020-02-05 This book provides a critical reflection on automated science and addresses the question whether the computational tools we developed in last decades are changing the way we humans do science More concretely Can machines replace scientists in crucial aspects of scientific

practice The contributors to this book re think and refine some of the main concepts by which science is understood drawing a fascinating picture of the developments we expect over the next decades of human machine co evolution The volume covers examples from various fields and areas such as molecular biology climate modeling clinical medicine and artificial intelligence The explosion of technological tools and drivers for scientific research calls for a renewed understanding of the human character of science This book aims precisely to contribute to such a renewed understanding of science

Evolutionary Biology: Contemporary and Historical Reflections Upon Core Theory Thomas E. Dickins, Benjamin J.A. Dickins, 2023-03-08 This book is reflecting upon core theories in evolutionary biology in a historical as well as contemporary context It exposes the main areas of interest for discussion but more importantly draws together hypotheses and future research directions The Modern Synthesis MS sometimes referred to as Standard Evolutionary Theory SET in evolutionary biology has been well documented and discussed but was also critically scrutinized over the last decade Researchers from diverse disciplinary backgrounds have claimed that there is a need for an extension to that theory and have called for an Extended Evolutionary Synthesis EES The book starts with an introductory chapter that summarizes the main points of the EES claim and indicates where those points receive treatment later in the book This introduction to the subjects can either serve as an initiation for readers new to the debate or as a guide for those looking to pursue particular lines of enquiry The following chapters are organized around historical perspectives theoretical and philosophical approaches and the use of specific biological models to inspect core ideas Both empirical and theoretical contributions have been included The majority of chapters are addressing various aspects of the EES position and reflecting upon the MS Some of the chapters take historical perspectives analyzing various details of the MS and EES claims Others offer theoretical and philosophical analyses of the debate or take contemporary findings in biology and discuss those findings and their possible theoretical interpretations All of the chapters draw upon actual biology to make their points This book is written by practicing biologists and behavioral biologists historians and philosophers many of them working in interdisciplinary fields It is a valuable resource for historians and philosophers of biology as well as for biologists Chapters 8 20 22 and 33 are available open access under a Creative Commons Attribution 4 0 International License via link springer com The Structure of **Biological Science** Alexander Rosenberg, 1985-01-25 Preface p ix Chapter 1 Biology and Its Philosophy p 2 1 1 The Rise of Logical Positivism p 2 1 2 The Consequences for Philosophy p 4 1 3 Problems of Falsifiability p 6 1 4 Philosophy of Science Without Positivism p 8 1 5 Speculation and Science p 10 Introduction to the Literature p 11 Chapter 2 Autonomy and Provincialism p 13 2 1 Philosophical Agendas versus Biological Agendas p 13 2 2 Motives for Provincialism and Autonomy p 18 2 3 Biological Philosophies p 21 2 4 Tertium Datur p 25 2 5 The Issues in Dispute p 30 2 6 Steps in the Argument p 34 Introduction to the Literature p 35 Chapter 3 Teleology and the Roots of Autonomy p 37 3 1 Functional Explanations in Molecular Biology p 39 3 2 The Search for Functions p 43 3 3 Functional Laws p 47 3 4 Directively Organized Systems p 52 3

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liberals and conservatives Such differences are not likely to be overcome simply by a study of the roots of progressivism but it is a first step in a more rational debate which this book will inspire The Columbia History of Twentieth-century French Thought Lawrence D. Kritzman, Brian J. Reilly, 2006 Unrivaled in its scope and depth The Columbia History of Twentieth Century French Thought assesses the intellectual figures movements and publications that helped shape and define fields as diverse as history and historiography psychoanalysis film literary theory cognitive and life sciences literary criticism philosophy and economics More than two hundred entries by leading intellectuals discuss developments in French thought on such subjects as pacifism fashion gastronomy technology and urbanism Contributors include prominent French thinkers many of whom have played an integral role in the development of French thought and American British and Canadian scholars who have been vital in the dissemination of French ideas **My Thoughts on Biological Evolution** Motoo Kimura, 2020-07-29 This book written by Motoo Kimura 1924 94 is a classic in evolutionary biology In 1968 Kimura proposed the neutral theory of molecular evolution which became the theoretical basis of modern evolutionary studies After publishing his work in 1983 in the book Neutral Theory of Molecular Evolution Kimura wrote this book in 1988 for the general public It was originally written in Japanese and is translated here for the first time In the book Kimura first summarizes the development of evolutionary theory since Lamarck and Darwin He then shows how the search for mechanisms of evolution developed into population genetics and describes how the study of molecular evolution matured by taking in the fruits of molecular biology Kimura proceeds to carefully explain his neutral evolution theory at the molecular level Finally he presents his view of the world from an evolutionary perspective The book has long served as an in depth introduction to evolutionary biology for students and young researchers in Japan There has been remarkably rapid progress in the field of bioscience at the molecular level over the past 30 years Nevertheless the book remains an important contribution that laid the foundations for what followed in molecular evolutionary studies Science in Reflection Edna Ullmann-Margalit, 2012-12-06 The Israel Colloquium for the History Philosophy and Sociology of Science presents before you its third volume of proceedings The philosophy section of the volume has three main foci the scientific explanation Hempel and Ben Menachem Elster and Dascal realism in science Cohen and Zemach and its implications for the problem of universals Armstrong and Bar Elli and the question of demarcation the dividing line between science and philosophy KrUger as well as the cognitive limits of science Stent There is no neat separation in this volume between essays on the history of science and those on the sociology of science and perhaps properly so Thus Lenoir s contribution is a clear example of the way the two disciplines combine and interrelate Joseph Ben David's comment on this lecture was among the last things he wrote knowing full well that his days were numbered Reading his contribution imparts a strong sense of loss the loss of a great sociologist and a wise man Not only history however but also historiography is a subject for reflection in this volume Freudenthal and Kerszberg And finally a couple of articles convey the sense of fascination with science as a story Heilbron Hughes We have by now come to expect

from the investigations reported in the Israel Colloquium series not surface unity of theme and method but rather an underlying common commitment and zest for the scientific enterprise at its best The third volume hopes to join the first two in footing this bill Innovative Collaborative Practice and Reflection in Patient Education Bird, Jennifer Lynne, 2015-01-31 The process of patient education allows for patients to think about their health in new ways and for educators and professionals to propose new ways to heal with the ultimate goal of patients having a positive outlook on life and consistently maintained health Innovative Collaborative Practice and Reflection in Patient Education presents multigenre writing incorporating authors personal and professional stories along with academic theories It combines the fields of education and medicine presenting innovative approaches to health education and designing new approaches to healing This research publication will impact the field of health education and be of use to educators researchers practitioners professionals and <u>Issues in Life Sciences: Botany and Plant Biology Research: 2011 Edition</u>, 2012-01-09 Issues in Life Sciences patients Botany and Plant Biology Research 2011 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Life Sciences Botany and Plant Biology Research The editors have built Issues in Life Sciences Botany and Plant Biology Research 2011 Edition on the vast information databases of ScholarlyNews You can expect the information about Life Sciences Botany and Plant Biology Research in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Life Sciences Botany and Plant Biology Research 2011 Edition has been produced by the world's leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at http www ScholarlyEditions com Spooky Technology: A reflection on the invisible and otherworldly qualities in everyday technologies Daragh Byrne, Dan Lockton, Matthew Cruz, Christi Danner, Karen Escarcha, Katherine Giesa, Meijie Hu, Yiwei Huang, Miranda Luong, Anuprita Ranade, Gordon Robertson, Elizabeth Wang, Lisa (Yip Yan) Yeung, Catherine Yochum, 2021-08-31 Spooky Technology explores our understanding of the invisible technologies in our everyday lives from objects with intelligence to systems in our homes that talk to us and each other The book is an inventory of spooky technologies compiled by Carnegie Mellon students reviewing work across art design HCI psychology human factors research and other fields that has been done in this field or adjacent to it both historically and more recently with commentary essays and interviews with creators and artists We often hear that the technologies in our everyday lives would appear to be magic and potentially terrifying to people in the past instantaneous communication with people all over the world access to a vast ever growing resource of human knowledge right there in the palm of our hand objects with intelligence that can sense and talk to us and each other But rarely are these otherworldly dimensions of technologies explored in more detail There is an often unspoken presumption that the march of

progress will inevitably mean we all adopt new practices and incorporate new products and new ways of doing things into our lives all cities will become smart cities all homes will become smart homes But these systems have become omnipresent without our necessarily understanding them They are not just black boxes but invisible entities in our homes and everyday lives which work through hidden flows of data unknown agendas imaginary clouds mysterious sets of rules which we perhaps dismiss as algorithms or even AI without really understanding what that means On some level the superstitions and sense of wonder and ways of relating to the unknown and the supernatural deities spirits ghosts which humanity has felt in every culture throughout history have not gone away but started to become transferred and transmuted into new forms

Reflections of America United States. Bureau of the Census,1980 Renal Reflections: Exploring the Marvels of Nephrology Tanzir Islam Britto,2023-07-03 Dive into the captivating world of nephrology with Renal Chronicles Exploring Kidney Health From renal physiology to transplantation and beyond this comprehensive book unravels the complexities of kidney diseases and their management Discover the anatomy diagnostic tools and therapeutic strategies in chronic kidney disease and dialysis Explore the intricacies of transplantation and delve into the complications encountered in nephrology practice Written by experts this invaluable resource empowers medical students practitioners and researchers to navigate the fascinating field of nephrology with confidence Enhance your understanding and shape the future of kidney health

Image Analysis Donat P. Hader, 2000-08-23 Automatic image analysis has become an important tool in many fields of biology medicine and other sciences Since the first edition of Image Analysis Methods and Applications the development of both software and hardware technology has undergone quantum leaps For example specific mathematical filters have been developed for quality enhancement of original images and for extraction of specific features of interest Also more complex programs have been developed for the analysis of object forms in distinguishing cancer cells from normal tissue cells Just as significant three dimensional analysis of proteins organelles or macroscopic objects is even more complex In addition recent space based experiments have optimized techniques for the extraction of movement parameters of numerous motile objects The second edition of Image Analysis Methods and Applications addresses all these new developments Moreover two new chapters have been added One focuses on images on the internet and the other discusses microscope image restoration These chapters add significantly to the existing body of information on Internet communication protocol and environment as well as to that on image file formats considerations The materials also include a list of internet Web sites that pertain to digital images and software along with those that relate to image processing With these considerations in mind Image Analysis Methods and Application Second Edition is of incalculable value to professionals academics and users of all aspects of image analysis in biology and other areas of science **Philosophy of Experimental Biology** Marcel Weber, 2004-08-30 Philosophy of Experimental Biology explores some central philosophical issues concerning scientific research in experimental biology including genetics biochemistry molecular biology developmental biology neurobiology and microbiology It seeks to

make sense of the explanatory strategies concepts ways of reasoning approaches to discovery and problem solving tools models and experimental systems deployed by scientific life science researchers and also integrates developments in historical scholarship in particular the New Experimentalism It concludes that historical explanations of scientific change that are based on local laboratory practice need to be supplemented with an account of the epistemic norms and standards that are operative in science This book should be of interest to philosophers and historians of science as well as to scientists

Kant on Proper Science Hein van den Berg,2013-10-08 This book provides a novel treatment of Immanuel Kant s views on proper natural science and biology The status of biology in Kant s system of science is often taken to be problematic By analyzing Kant s philosophy of biology in relation to his conception of proper science the present book determines Kant s views on the scientific status of biology Combining a broad ideengeschichtlich approach with a detailed historical reconstruction of philosophical and scientific texts the book establishes important interconnections between Kant s philosophy of science his views on biology and his reception of late 18th century biological theories It discusses Kant s views on science and biology as articulated in his published writings and in the Opus postumum The book shows that although biology is a non mathematical science and the relation between biology and other natural sciences is not specified Kant did allow for the possibility of providing scientific explanations in biology and assigned biology a specific domain of investigation

The book delves into Reflections On Biological Research. Reflections On Biological Research is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and indepth insights into Reflections On Biological Research, encompassing both the fundamentals and more intricate discussions.

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