

ASSEMBLING ARGUMENTS

Multimodal Rhetoric and
Scientific Discourse



Jonathan Buehl

Assembling Arguments Multimodal Scientific Communication

Han Yu, Kathryn M. Northcut

Assembling Arguments Multimodal Scientific Communication:

Assembling Arguments Jonathan Buehl, 2016 A comprehensive account of multimodal scientific persuasion with a framework for analysis and teaching **Assembling Arguments** Jonathan Buehl, 2016-01-20 Scientific arguments and indeed arguments in most disciplines depend on visuals and other nontextual elements however most models of argumentation typically neglect these important resources In Assembling Arguments Jonathan Buehl offers a concentrated study of scientific argumentation that is sensitive to both the historical and theoretical possibilities of multimodal persuasion as it advances two related claims First rhetorical theory when augmented with methods for reading nonverbal representations can provide the analytical tools needed to understand and appreciate multimodal scientific arguments Second science an inherently multimodal enterprise offers ideal subjects for developing general theories of multimodal rhetoric applicable across fields In developing these claims Buehl offers a comprehensive account of scientific persuasion as a multimodal process and develops a simple but productive framework for analyzing and teaching multimodal argumentation Comprising five case studies the book provides detailed treatments of argumentation in specific technological and historical contexts argumentation before World War I when images circulated by hand and by post argumentation during the mid twentieth century when computers were beginning to bolster scientific inquiry but images remained hand crafted products and argumentation at the turn of the twenty first century an era of digital revolutions and digital fraud Each study examines the rhetorical problems and strategies of specific scientists to investigate key issues regarding visualization and argument 1 establishing new instruments as reliable sources of visual evidence 2 creating novel arguments from reliable visual evidence 3 creating novel arguments with unreliable visual evidence 4 preserving the credibility of visualization practices and 5 creating multimodal artifacts before and in the era of digital circulation Given the growing enterprise of rhetorical studies and the field's contributions to communication practices in all disciplines rhetoricians need a comprehensive rhetoric of science one that accounts for the multimodal arguments that change our relation to reality Assembling Arguments argues that such rhetoric should enable the interpretation of visual scientific arguments and improve science writing instruction

The Routledge Handbook of Language and Science David R. Gruber, Lynda C. Olman, 2019-11-28 The Routledge Handbook of Language and Science provides a state of the art volume on the language of scientific processes and communications This book offers comprehensive coverage of socio cultural approaches to science as well as analysing new theoretical developments and incorporating discussions about future directions within the field Featuring original contributions from an international range of renowned scholars as well as academics at the forefront of innovative research this handbook identifies common objects of inquiry across the areas of rhetoric sociolinguistics communication studies science and technology studies and public understanding of science covers the four key themes of power pedagogy public engagement and materiality in relation to the study of scientific language and its development uses qualitative and

quantitative approaches to demonstrate how humanities and social science scholars can go about studying science details the meaning and purpose of socio cultural approaches to science including the impact of new media technologies analyses the history of the field and how it positions itself in relation to other areas of study Ushering the study of language and science toward a more interdisciplinary diverse communal and ecological future The Routledge Handbook of Language and Science is an essential reference for anyone with an interest in this area

Science and the Internet Alan Gross, Jonathan Buehl, 2016-12-05 The essays in Science and the Internet address the timely topic of how digital tools are shaping science communication. Featuring chapters by leading scholars of the rhetoric of science and technology the volume fills a much needed gap in contemporary rhetoric of science scholarship. Overall the essays reveal how digital technologies may both fray the boundaries between experts and non experts and enable more collaborative democratic means of public engagement with science. Lisa Ker nen PhD Associate Professor and Director of Graduate Studies Department of Communication University of Colorado Denver

The Routledge Handbook of Argumentation Theory Scott Aikin, John Casey, Katharina

Stevens, 2025-12-30 The Routledge Handbook of Argumentation Theory offers 43 chapters written specifically for this volume by a team of leading international scholars that survey a wide spectrum of research on the nature purpose and promise of argument and the associated practice of argumentation. Each chapter provides a state of the art survey to help readers understand and engage with the field s main ideas and problems. The book is split into two parts. Part I covers orienting approaches in argumentation studies. Part II focuses on the main debates in argumentation theory. The Handbook illustrates how different disciplines contribute to argumentation theory integrating contributions from logic epistemology social psychology political science communication rhetoric and other fields. This volume thus provides researchers and students with a picture of the diversity and depth to the work in argumentation theory today. Throughout it clarifies complex questions and methods in this evolving field of study. And references at the end of chapters and a comprehensive index at the back of the book provide readers with central resources for further work in this important area of research

Genre Networks

Carmen Pérez-Llantada, María-José Luzón, 2022-09-30 This innovative book employs genre as a fruitful lens for exploring the complexity of science communication online and the new genre assemblages formed at the interface of multiple genres in digital environments. Pérez Llantada and Luzón argue for a conceptualization of Science 2.0 that views digital genres in conjunction with other genres accounting for the ways in which diverse Internet users choose different points of entry for accessing information on science of varied depth views and perspectives. Taking Swales s conceptualization of forms of genre collectivity as its point of departure the book puts forward this new understanding of multisemiotic genre assemblages in digital science communication considering dimensions of hypertextuality intertextuality and multimodality in the interdependent relations between genres. The volume draws on a range of case studies each with a distinct genre assemblage and social agenda exploring such areas as high stakes science open peer review science reproducibility citizen science and

social media networking Offering new directions for future research on genre studies and digital science communication
Genre Networks Intersemiotic Relations in Digital Science Communication will be of interest to scholars in these fields as well as those working in multimodality language and communication and languages for academic purposes

Journal of Scientific and Industrial Research ,2014 **Artificial Intelligence Abstracts** ,1991 *Government Reports Annual*

Index ,1993 **Current Index to Journals in Education** ,1979 *Interacting With Audiences* Ann M.

Blakeslee,2000-10-01 This distinctive monograph examines the dynamic rhetorical processes by which scientists shape negotiate and position their work within an interdisciplinary community Author Ann M Blakeslee studies the everyday rhetorical practices of a group of condensed matter theoretical physicists and presents here the first substantial qualitative study of the planning and implementation of discursive practices by a group of scientists This volume also represents one of the first studies to use situated cognition and learning theory to study how knowledge of a domain s discursive practices is acquired by newcomers Unlike previous studies of scientists rhetorical practices which have focused primarily on the finished or published texts Blakeslee s involvement with the physicists as they engaged in the composing processes from jotting down planning notes through publishing a scientific paper suggests an alternative view of audience based on cooperative interaction between authors and their interlocutors From this innovative perspective functional knowledge of audiences comes only by entering into some community of practice in which readers also become self defining interlocutors and even participants in joint projects Blakeslee s research follows the physicists work into communal interactive dynamics looking at their overt attempts to get feedback from members of their audiences what that feedback was and how they responded to it This work addresses and extends a model for audience analysis that consists of two primary operations getting to know and understand one s interlocutors and determining how to reach and influence them In doing so it offers important insights into the dissemination of scientific information and thus will be of great interest to scholars and students in the areas of rhetoric of science and technology composition rhetorical theory and scientific writing

Multimodal Teaching and Learning Gunther Kress,Carey Jewitt,Jon Ogborn,Tsatsarelis Charalampis,2001-10-04 Multimodal Teaching and Learning The Rhetorics of the Science Classroom achieves the rare goal of explicating multimodality as both theory and practice This is an importantly concrete analysis derived from extended careful and interdisciplinary observation which challenges our thinking about how meaning and knowledge are shaped by our modes of communication The book appeals to a wide range of scholars and practitioners far beyond the science classroom Professor Ron Scollon Department of Linguistics Georgetown University This book takes a radically different look at communication and in doing so presents a series of challenges to accepted views on language on communication on teaching and above all on learning Drawing on extensive research in science classrooms it presents a view of communication in which language is not necessarily communication image gesture speech writing models spatial and bodily codes The action of students in learning is radically rethought all

participants in communication are seen as active transformers of the meaning resources around them and this approach opens a new window on the processes of learning **Communicating Science** Alan G. Gross, Joseph E. Harmon, Michael S. Reidy, 2002-04-11 This book describes the development of the scientific article from its modest beginnings to the global phenomenon that it has become today The authors focus on changes in the style organization and argumentative structure of scientific communication over time This outstanding resource is the definitive study on the rhetoric of science **New**

Essays in Technical and Scientific Communication Paul Anderson, John Brockman, Carolyn Miller, 2019-03-08 New Essays in Technical and Scientific Communication represents the most important collection of writings about technical communications ever compiled Focusing on a wide range of theoretical and practical issues these essays reflect the rigor, vitality and interdisciplinary nature of modern technical communications This represents a collection of the very best scholarly work being done

Digital Scientific Communication Ramón Plo-Alastrué, Isabel Corona, 2023-12-29 This edited book analyses current trends in science communication and gathers research on practices related to the construction of digital identity and visibility emerging conflicts related to the public availability and appropriation of scientific culture and ways of validating and disseminating scientific knowledge in new digital contexts Drawing on a selection of papers presented in the InterGedi Conference Zaragoza December 2021 the main goal of the volume is to identify and explore emerging professional practices and challenges in the digital communication of science through innovative multimodal genres This book will be of interest to postgraduates, doctoral students, practitioners and researchers in the fields of discourse analysis, sociolinguistics, digital media, multimodality and communication studies

Scientific Communication Han Yu, Kathryn M. Northcut, 2017-09-18 This book addresses the roles and challenges of people who communicate science who work with scientists and who teach STEM majors how to write In terms of practice and theory chapters address themes encountered by scientists and communicators including ethical challenges, visual displays and communication with publics as well as changed and changing contexts and genres The pedagogy section covers topics important to instructors everyday teaching as well as longer term curricular development Chapters address delivery of rhetorically informed instruction, communication from experts to the publics, writing, assessment, online teaching and communication intensive pedagogies and curricula The Open Access version of this book available at <http://www.tandfebooks.com> has been made available under a Creative Commons Attribution Non Commercial No Derivatives 4.0 license

Multimodality, Digitalization and Cognitvity in Communication and Pedagogy Natalya Vitalyevna Sukhova, Tatiana Dubrovskaya, Yulia Anatolyevna Lobina, 2021-11-01 This book positions itself at the intersection of the key areas of the modern humanities Different authors from a variety of countries take innovative approaches to investigating multimodal communication adapting pedagogical design to digital environments and enhancing cognitive skills through transformations in teaching and learning practices The eclectic forms under study require eclectic approaches and methodologies and the authors cross disciplinary boundaries drawing on

philosophy linguistics semiotics computational linguistics mathematics cognitive studies and neuroaesthetics Part I presents methods of analysing multimodal communication in its different displays covering promotional video in crowdfunding project presentations multimodal public signs of prohibition and visuals as arguments Part II explores varied teaching methodologies that have emerged as a result of and in response to modern technological changes and contains some practical hints for educators It demonstrates the pedagogical potential of video games virtual worlds linguistic corpora and online dictionaries Part III focuses on psychological and cognitive factors influencing success in the classroom primarily ways of developing students and teachers personalities The volume sits at the intersection between Communication Studies Digital Humanities Discourse Analysis Education Theory and Cognitive Studies and is useful to scholars and students of communication languages education and other areas of the humanities This book should trigger scholarly discussions as well as stimulating practitioners interest in these fields **Digital Scientific Communication** Ramón Plo-Alastrué,Isabel Corona,2024-12-31

Communication: The Essence of Science William D. Garvey,2014-05-19 Communication The Essence of Science provides information pertinent to the fundamental aspects of scientific communication This book focuses on those information exchange activities that take place mainly among scientists actively involved on the research front Organized into five chapters this book begins with an overview of the psychologists description of the communication structure of science This text then examines the relationship among spanning connecting and integrating the various streams of activities involved in the production of information Other chapters consider some of the main republication media and suggest ways that may be used in the librarian s effort to provide effective information services to scientists This book discusses as well the significance of scientific articles to the scientific community The final chapter deals with the significant role of librarians as a social scientist This book is a valuable resource for psychologists social psychologists librarians social scientists sociologists engineers teachers and students **Scientific and Technological Communication** Sidney Passman,1969 Study on documentation and scientific communication problems in industrial research and science covers the financial aspects of publication EDP techniques international aspects etc Bibliography pp 135 to 143

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web sincerely yours your name claim for fuel allowance up company company name address choose subject request for monthly fuel allowance dear sir madam me want to notify you this increasing fuels prices become influential my daily life in recent months fuel costs and usage are growings at my job due to traveling for job tasks