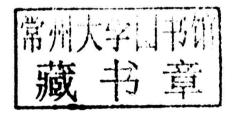


John A. Courtright

John A. Courtright

Observing and Analyzing Communication Behavior





PETER LANG

New York • Washington, D.C./Baltimore • Bern Frankfurt • Berlin • Brussels • Vienna • Oxford

Library of Congress Cataloging-in-Publication Data

Courtright, John.

Observing and analyzing communication behavior / John A. Courtright.

pages cm

Includes bibliographical references and index.

1. Communication—Research. 2. Communication—
Methodology. I. Title.
P91.3.C67 302.2'0721—dc23 2013038189
ISBN 978-1-4331-2416-7 (hardcover)
ISBN 978-1-4539-1245-4 (e-book)

Bibliographic information published by Die Deutsche Nationalbibliothek. Die Deutsche Nationalbibliothek lists this publication in the "Deutsche Nationalbibliografie"; detailed bibliographic data is available on the Internet at http://dnb.d-nb.de/.

The paper in this book meets the guidelines for permanence and durability of the Committee on Production Guidelines for Book Longevity of the Council of Library Resources.



© 2014 Peter Lang Publishing, Inc., New York 29 Broadway, 18th floor, New York, NY 10006 www.peterlang.com

All rights reserved.

Reprint or reproduction, even partially, in all forms such as microfilm, xerography, microfiche, microcard, and offset strictly prohibited.

Printed in the United States of America

Observing and Analyzing Communication Behavior

This book is part of the Peter Lang Media and Communication list.

Every volume is peer reviewed and meets
the highest quality standards for content and production.



PETER LANG New York • Washington, D.C./Baltimore • Bern Frankfurt • Berlin • Brussels • Vienna • Oxford

此为试读,需要完整PDF请访问: www.ertongbook.com

To Illene, Merissa, and Abby; they know why.

Table of Contents

1	Preliminaries and Promises		L
	Defining Communication Behavior		3
	Residual Artifacts of Communication Behavior		
	Outcomes of Communication Behavior		4
	Some Controversial Assertions		
	Overview of the Book		
	Moving On		
	2.20 / 22.8		
2	Unitizing Communication Behavior	15	2
	A Small Taxonomy of Behavior		
	No Units to be Found		
	Definitions		
	Types of Units		
	Acts as Units		
	Grammatical or Syntactic Units		
	Thought Units		
	Themes		
	Time		
	Codes as Unitizers		
	Turns Versus Thoughts—A Comment		
	Conclusion		
	Concrusion	40)
3	Coding Communication Behavior	2	1
o	Selecting or Creating a Coding System		
	The Role of Theory		
	Select or Create?		
	Only If You Have To		
	Other Considerations		
	Some Practical Concerns		
	Video Recording		
	Transcribe and Check		
	Conclusion	O	1
4	Observing and Beauding Communication Behavior	-	4
4	Observing and Recording Communication Behavior		
	Conceptualizing the Target Behavior(s)		
	Variable of Interest		
	Sample or Sign?		
	How Many Behaviors?	5	

viii Observing and Analyzing Communication Behavior

	Dimensions and Measures of Communication	
	Behavior	. 60
	Frequency	. 61
	Latency	
	Intensity	
	Pattern	. 70
	Duration	. 73
	Derived Ratios as Descriptive Indices	. 74
	Time-Sampling	. 76
	Continuous Observation	. 77
	Intrasession Interval Sampling	
	Conclusion	. 85
5	Common Issues in Behavioral Observation	. 88
	Observational Setting	. 88
	The Coding Manual	
	Selection of Observers	
	A Word at the Start	. 93
	Observer Training	. 94
	Orientation Session	
	Stage 1. The Coding Manual	. 96
	Stage 2. Coding Simple Examples	
	Stage 3. Code Realistic Examples	. 97
	Stage 4. Practice in the Setting	. 97
	Observer Monitoring	
	Sources of Bias in Observational Research	100
	Observer Drift	101
	Expectancy Effects	102
	Reactivity	103
	Observer Cheating	104
	Reconciling Observer Discrepancies	105
	Arbitrary Selection of Codes	106
	Decision by Consensus	107
	Employing Additional Observers	108
	Conclusion	108
6	Reliability of Unitizing and Categorizing	111
	An Overview of Classical Test Theory	112
	True Scores and Error Scores	112
	Parallel Tests	113

	Split-Half Reliability	114
	Reliability as Internal Consistency	116
	Reliability of Observational Data	117
	Conceptual Definition of Observational	
	Reliability	117
	Operational Definition of Observational	
	Reliability	119
	Unitizing Reliability	
	Components of Unitizing Reliability	
	Coefficients of Unitizing Reliability	121
	Categorizing Reliability	
	How Reliable is Reliable Enough?	125
	Scott's π	126
	Cohen's κ	130
	Extensions of κ	134
	Category-by-Category Reliability	136
	An Alternative Approach	139
	A Troublesome Practice	141
7	Reliability for Quantitative Observational Data	
	Preliminary Decisions	
	Are the Observers a Random or a Fixed Facet?	
	Are the Data Matched or Unmatched?	147
	Will the Final Data be a Single or a	u 10
	Composite Score?	
	Reliability as Consistency or Agreement?	
	Intraclass Correlation Coefficients	
	Reliability as Consistency	
	Reliability as Agreement	
	Generalizability Theory	
	Universe of Admissible Observations	
	G Versus D Studies	
	Crossed Versus Nested Facets	
	G Study Variance Components for a $p \times r$ Design	
	D Studies for a $p \times R$ Design	
	Error Variances	
	An Illustrative Example	
	Single Facet Nested Designs, $r:p$	
	Multifaceted G and D Studies	
	Conclusion	184

x Observing and Analyzing Communication Behavior

8	Validity		187
	History of t	the Study of Validation	188
	Before tl	he Beginning	189
	All Valid	lity Is Created Equal	189
		of Inferences, Not Tests	
		tary Model of Validity	
		Versus Practice	
		Stock	
		Argument	
		the Validity Argument	
		erpretative Argument	
		's Model of Inference	
		gument for Relational Control Coding	
		ystem	204
		Approach	
		Missing?	
	001101010101		
9	Classic An	alytic Procedures	215
	Markov Ch	nain Analysis	216
	An Exar	nple of a Markov Chain	217
	Markov Ch	nain Assumptions	219
	The Ord	ler Assumption	221
	The Sta	tionarity Assumption	228
	The Hor	nogeneity Assumption	233
		Word on Markov Chain Analysis	
		ntial Analysis	
		ing the Analysis	
		eps	
		•	
App	endix 9.1	Test for First-Versus Second-Order Markov Process	250
		A1444 A1	
App	endix 9.2	Test of the Stationarity Assumption	256
App	endix 9.3	Test of Homogeneity Assumption	262

10	Log-Linear Models of Nominal Observational	
	Data	268
	Hypotheses and Sampling	268
	Analyzing Two-Dimensional Tables	269
	Some Important Notation	270
	The Log-Linear Model	270
	The Likelihood Ratio Test Statistic	274
	The Hierarchy Principle	275
	Residual Analysis	276
	Analyzing Multidimensional Tables	279
	Complete Independence	280
	Two Variables Independent of a Third	280
	Conditional Independence	281
	Homogeneous Association	282
	Saturated Model	283
	An Example	283
	Log-Linear Models and Markov Chains	286
	The Order Assumption	286
	The Homogeneity Assumption	290
	The Stationarity Assumption	290
	Final Thoughts About Markov Chains	292
	Log-Linear Models and Lag Sequential Analysis	
	SoWhat's Different?	295
	Wrapping Up	302
11	Linear Models of Categorical Data	
	The GSK Procedure	
	Defining the Response Functions	
	Defining The Design Matrix	
	Estimating and Testing the GSK Model	
	Estimation	
	Testing	319
	Research Examples	
	Example 1: Ellis (1979)	
	Example 2: Courtright et al. (1990)	
	Example 3: Fairhurst et al. (1995)	
	Conclusion	336

xii Observing and Analyzing Communication Behavior

12	Analyzing Counts	
	The Nature of Counts	339
	Distributions of Counted Data	341
	Binomial Distribution	341
	Negative Binomial Distribution	342
	Multinomial Distribution	
	Poisson Distribution	
	Logistic Regression—Dichotomous Response Categories	
	Odds and Odds Ratios	
	The Logit	
	Logistic Versus OLS Regression	
	Logistic Regression—Multinomial Response Categories	
	Ordinal Responses	
	Nominal Responses.	
	Poisson Regression	
	Modeling the Offset	
	The Dispersion Parameter	
	Groupthink Example	
	Some Remedies for Overdispersion	
	Nonverbal Example—Underdispersion	
	Conclusion	
	Concrusion	010
13	Hierarchical Generalized Linear Models	378
	A Brief Overview of Hierarchical Linear Modeling	380
	Hierarchical Generalized Linear Models (HGLMs)	
	Remember the Link Function	
	Centering.	
	Example Analyses	
	Binomial HGLM	
	Poisson HGLM	
	Conclusion	
14	Reversing the Sides of the = Sign	418
	Deconstructing the Transition Matrix	419
	The Disaggregation Approach	420
	Continuous Indices Approach	
	A Brief Note About Transformations	
	Conclusion	439
	References	443

	Contents	xiii
Author Index		473
Subject Index	• • • • • • • • • • • • • • • • • • • •	481

Chapter 1 Preliminaries and Promises

"One of the great ironies of the field of communication is that we so seldom study our namesake." (Folger, Hewes, & Poole, 1984)

"Plus ça change, plus c'est la meme chose." (Karr, 1849)

A large and important segment of what we call human communication is comprised of overt, observable behavior. There is little doubt and no argument in this book that such communication behavior is frequently preceded by unobservable, high-level psychological processes. Similarly, communication behavior often produces unobservable psychological reactions in both the communicator and those who might be observing the communication behavior.

To be clear, however, those psychological processes will not be addressed in this book. They are interesting and important, but they have been examined in detail in many other scholarly venues. This is a book about communication behavior: how we conceptualize it, observe it, measure it, and analyze it. As a consequence, this book is a sort of a "way-back machine," going way back to the 1980s and before. During those years, communication journals routinely published research in which overt communication behavior was the primary variable of interest. There were numerous books and articles on how to appropriately employ some procedure, methodology, or technique. There were controversies and disagreements, criticisms and rejoinders, not to mention a good deal of solid scholarship.

Where have you gone Joe DiMaggio? If one sets aside for the duration of this argument the excellent research in mass communication using content analytic techniques, the halcyon days of communication behavior have seemingly disappeared. That is not a good thing. If the only purpose of this book was to reminisce about the good old days, the entire enterprise could be wrapped up in a couple of additional paragraphs. That is not the case. This book's purpose is very much larger than that. The failure of the discipline of Communication to continue and to expand the study of communication behavior has the very real potential to relegate

it to a perpetual second class status in the academic world.¹ Someone has to sound the warning.

Condit (2009, p. 9) succinctly expresses this concern when she writes, "Communication studies tried to skip the stage of rigorous observation....The consequence is that we don't really have much in the way of descriptions of what communication looks like, either at the social or individual levels." One could go even further. Virtually all of the theories of psychological processes that have emerged in the last several decades have embraced—to a greater or lesser extent—a common assumption. They assume that to some extent and for some reason these unobservable psychological operations influence the overt communication behavior that is actually emitted.² How does anyone know that assumption is true?

This is more than a loose conceptual thread on the back hem of an otherwise elegantly woven theoretical garment. To the contrary, this is theoretical ground zero. This is where the claim is made that what goes on inside a person's head has an effect on how he or she behaves. But if researchers are not able to validly conceptualize, systematically observe, and reliably measure that behavior, they will never be able to validate such claims in a convincing manner.

Accordingly, one of the purposes of this book is to nudge communication research back in time a bit; to reignite some interest in and passion about how human communication behavior should be studied. A second purpose is to present once again the best advice, techniques, cautions, and controversies from the 1970s and '80s. The idea is to dust them off, update them a bit, and collect them in one scholarly container, thus simplifying things for the next generation of behavioral researchers in communication.

Finally, the chapters that follow will intersperse those golden oldies with the best, most exciting work of numerous other disciplines that have not put the study of behavior on the back burner. Areas of study such as clinical psychology, child development, educational measurement, and even personality psychology have continued to study actual behavior, and there is much communication scholars can learn from their advances. Also included from time to time will be some interesting work from ethology and other animal studies.

The overall goal, however, is to produce a monograph that communication scholars and graduate students can actually use to guide their study of communication behavior. As a result, the intended audience is decidedly *not* the most savvy and sophisticated methodologists in the discipline of Communication. Those several dozen people are fine on their own. In contrast, the intention is to make each major topic addressed in this book be technically accurate, yet as understandable as possible. Hopefully, researchers will actually use what is written here.

Don't be confused: no one will find the subsequent chapters to be light bedtime reading, but neither will they be reminiscent of *Psychometrika*. There will be plenty of references for readers who want fuller, more rigorous, or more sophisticated treatments. This book is intended as a guide, and no guide is successful if it overwhelms with detail those who are new to the journey.

Defining Communication Behavior

The fact that this book is devoted exclusively to the study of communication behavior does not and should not imply that all behavior is communicative. To make such a claim would be absurd. Nevertheless, there must be some way to distinguish what qualifies as communication behavior (and therefore is worthy of investigation) and what does not. Without some conceptual boundaries, scholars end up studying everything—or nothing.

Over the last several decades, several articles and essays have attempted to define what attributes and characteristics must exist for some phenomenon to be called "communication" (see Andersen, 1991; Bavelas, 1990; Dance, 1970; Miller, 1966; Motley, 1990, 1991). There is no doubt that the authors of those thought pieces spent much time and considerable intellectual energy developing their finely nuanced positions. This book will devote no space to either. As a result, communication behavior will be defined as whatever behavior a communication researcher decides to study. No judgments will be made about whether that behavior is "really" communication or not. The goal here is to study communication behavior, not define it. Accordingly, communication behavior is whatever the reader or the author or any other communication researcher says it is.

Would-be behavioral scholars should not become too sanguine, however. Should that same researcher decide to submit his or her work for publication, such open-minded tolerance is unlikely. Editors and manuscript reviewers will almost certainly have opinions about what is and is not legitimately "communication," and they will not hesitate to express them. If one's manuscript falls on the wrong side of those opinions, it will suffer an inglorious fate.

That said, none of the examples provided herein will likely offend anyone's sense of disciplinary propriety. I know communication when I see it, and so do you. And as for those journal Editors...well, they need to get out more.

On a more serious note, two types of phenomena as communication behaviors will be included that require additional explanation. Their exclusion would make this book more than slightly incomplete.

Residual Artifacts of Communication Behavior

Many times scholars cannot or do not observe a person engaging in communication behavior, but instead have available for examination the left-over or residual artifact of that behavior; e.g., written documents, highlighted reading materials, computer usage logs, caller ID logs, etc. And do not forget artifacts such as television programming, political commercials, or newspaper coverage, or the legitimacy of research in mass communication will vanish in a definitional poof.

The fact that an investigator did not actually observe the creation of these artifacts cannot be construed to mean that no communication behavior took place. Such artifacts have been studied for decades, frequently under the rubric of content analysis, but with other methodologies as well. They are fundamentally different from, say, interpersonal interaction, and they have their own set of problems and promises to discuss. Discuss them we will.

Outcomes of Communication Behavior

Outcomes are different than artifacts. They are not left behind signs that a behavior occurred, but rather the effect or result of communication behavior having occurred. Both artifacts and outcomes exist because communication behavior has occurred, but they are demonstrably different phenomena and deserve two separate treatments. Outcomes include things such as the cessation of alcohol abuse, contracting or avoiding HIV (because of a prevention campaign), loss of weight, getting divorced, or donating money to a charity.