## STATISTICS DONE WRONG

The Woefully Complete Guide

by Alex Reinhart



San Francisco



## **BRIEF CONTENTS**

Preface	ΧV
Introduction	1
Chapter 1: An Introduction to Statistical Significance	7
Chapter 2: Statistical Power and Underpowered Statistics	15
Chapter 3: Pseudoreplication: Choose Your Data Wisely	31
Chapter 4: The p Value and the Base Rate Fallacy	39
Chapter 5: Bad Judges of Significance	55
Chapter 6: Double-Dipping in the Data	63
Chapter 7: Continuity Errors	73
Chapter 8: Model Abuse	79
Chapter 9: Researcher Freedom: Good Vibrations?	89
Chapter 10: Everybody Makes Mistakes	97
Chapter 11: Hiding the Data1	05
Chapter 12: What Can Be Done?1	19
Notes1	31
Index1	47