Itinerary

	page xi		
	Ackr	nowledgments	XV
Excurs	sion 1	How to Tell What's True about Statistical Inference	
I	Beyo	ond Probabilism and Performance	3
	1.1	Severity Requirement: Bad Evidence, No Test (BENT)	
	1.2	Probabilism, Performance, and Probativeness	13
	1.3	The Current State of Play in Statistical Foundations:	
		A View From a Hot-Air Balloon	23
II	Erro	or Probing Tools versus Logics of Evidence	30
	1.4	The Law of Likelihood and Error Statistics	30
	1.5	Trying and Trying Again: The Likelihood Principle	41
Excurs	sion 2	Taboos of Induction and Falsification	
I	Indı	action and Confirmation	59
	2.1	The Traditional Problem of Induction	60
	2.2	Is Probability a Good Measure of Confirmation?	66
II	Fals	ification, Pseudoscience, Induction	75
	2.3	Popper, Severity, and Methodological Probability	75
	2.4	Novelty and Severity	89
	2.5	Fallacies of Rejection and an Animal Called NHST	92
	2.6	The Reproducibility Revolution (Crisis) in Psychology	7 97
	2.7	How to Solve the Problem of Induction Now	107
Excurs	sion 3	Statistical Tests and Scientific Inference	
I	Inge	enious and Severe Tests	119
	3.1	Statistical Inference and Sexy Science: The 1919	
		Eclipse Test	121

	3.2	N-P Tests: An Episode in Anglo-Polish			
		Collaboration	131		
	3.3	How to Do All N-P Tests Do (and More) While			
		a Member of the Fisherian Tribe	146		
II	It's t	he Methods, Stupid	164		
	3.4	Some Howlers and Chestnuts of Statistical Tests	165		
	3.5	P-values Aren't Error Probabilities Because Fisher			
	2.6	Rejected Neyman's Performance Philosophy	173		
	3.6	Hocus-Pocus: <i>P</i> -values Are Not Error Probabilities, Are Not Even Frequentist!	183		
		Are Not Even Frequentist:	163		
III	Capa	ability and Severity: Deeper Concepts	189		
	3.7	Severity, Capability, and Confidence Intervals (CIs)	189		
	3.8	The Probability Our Results Are Statistical	202		
		Fluctuations: Higgs' Discovery	202		
Excurs	sion 4	Objectivity and Auditing			
I	The	Myth of "The Myth of Objectivity"	221		
-	4.1	Dirty Hands: Statistical Inference Is Sullied with			
		Discretionary Choices	222		
	4.2	Embrace Your Subjectivity	228		
II	Rejection Fallacies: Who's Exaggerating What?				
	4.3	Significant Results with Overly Sensitive Tests:	239		
		Large n Problem	240		
	4.4	Do <i>P</i> -Values Exaggerate the Evidence?	246		
	4.5	Who's Exaggerating? How to Evaluate Reforms			
		Based on Bayes Factor Standards	260		
III	Audi	iting: Biasing Selection Effects and			
		lomization	267		
	4.6	Error Control Is Necessary for Severity Control	269		
	4.7	Randomization	286		
IV	More	e Auditing: Objectivity and Model Checking	296		
1 4	4.8	All Models Are False	296		
	4.9	For Model-Checking, They Come Back to	270		
	1.,,	Significance Tests	301		

		Itinerary	ix
	4.10	Bootstrap Resampling: My Sample Is a Mirror	
		of the Universe	305
	4.11	Misspecification (M-S) Testing in the Error	
		Statistical Account	307
Excurs	sion 5	Power and Severity	
I	Pow	er: Pre-data and Post-data	323
	5.1	Power Howlers, Trade-offs, and Benchmarks	325
	5.2	Cruise Severity Drill: How Tail Areas (Appear to)	
		Exaggerate the Evidence	332
	5.3	Insignificant Results: Power Analysis and Severity	338
	5.4	Severity Interpretation of Tests: Severity Curves	346
II	How	v Not to Corrupt Power	353
	5.5	Power Taboos, Retrospective Power, and Shpower	353
	5.6	Positive Predictive Value: Fine for Luggage	361
III	Deconstructing the N-P versus Fisher Debates		
	5.7	Statistical Theatre: "Les Miserables Citations"	371
	5.8	Neyman's Performance and Fisher's Fiducial	
		Probability	382
Excursion 6		(Probabilist) Foundations Lost, (Probative)	
		Foundations Found	
I	Wha	nt Ever Happened to Bayesian Foundations?	395
	6.1	Bayesian Ways: From Classical to Default	397
	6.2	What are Bayesian Priors? A Gallimaufry	402
	6.3	Unification or Schizophrenia: Bayesian Family Feuds	409
	6.4	What Happened to Updating by Bayes' Rule?	415
II	Pragmatic and Error Statistical Bayesians		
	6.5	Pragmatic Bayesians	424
	6.6	Error Statistical Bayesians: Falsificationist Bayesians	432
	6.7	Farewell Keepsake	436
	Souv	renirs	445
	Refe	rences	446
	Inde	X	471