## **STAT59 Study Design Tool**

I: What Am I	Trying to Prove:	2	
Write the single prin	nary objective of the st	udy.	
Write the research h			

STAT54

3.	Formulate the null and alternative statistical hypotheses:				
	1. Null Hypothesis:				
	2. Alternative Hypothesis:				
4.	Write a single optional secondary objective.				
5.	List any additional descriptive outcomes. These outcomes will be described in th paper but not used for hypothesis testing.				

## **Part II: Who Cares:**

1.	Write a brief description of the target audience.				
2.	Describe why this finding would be important to the target audience.				
3.	Note the costs of not knowing the answer to your research hypothesis.				
4.	Predict the benefits of knowing the answer to your research hypothesis.				

## Part III: Could this Possibly Be True?

Non-Experimental Designs
Cross-Sectional
Enumerative

Expert Opinion
Delphi Method
Expert Panels

1	Write a brief description of the mechanism of I	how your hypothesis could be true			
	Try to use established facts rather than speculation.				
2.	Give at least three references that support you	r mechanism.			
Par	t IV: Choose the Best Design.				
1.	Choose the best study design to prove your res	• .			
	the top of the pyramid as you can reasonably	attain.			
	Randomized Experiments				
	kulluoliiled Experiments	Study Design:			
	Quanti Firmanian antal Basinana				
	Quasi Experimental Designs				
	Prospective Observational Studies				
	Data and the Observation of Studios				
	Retrospective Observational Studies Retrospective Cohort Case-Control				

