Backstage Agenda: Testing Statistical Hypotheses

Part	Time	Slides	Topic	Notes
0	0:00 – 1:00	1-3	Introduction and goals	
	1:00 – 3:00	4	Learning goals	
1	3:00 – 8:00	5-7	Specifying statistical hypotheses, Background and vocabulary	Fill in definitions for hypotheses, null, alt, hypothesis as symbols
	8:00 – 15:00	8-9	Specifying statistical hypotheses, Example	Fill in research question, parameter, null, alt
	15:00 – 17:00		Pause for questions	
2	17:00 – 18:00	10-12	The process of hypothesis testing, Case Study: Background	
	18:00 – 19:00	13	The process of hypothesis testing, Case Study: Setting the hypotheses	Introduce questions and form groups
	19:00 – 24:00			5 min for group work
	24:00 – 27:00	14		5 min to get responses for each question
	27:00 – 28:00		Pause for questions	
	28:00 – 30:00	15	The process of hypothesis testing, Case Study: Collecting data and calculating a statistic	Fill in sample statistic calculation
	30:00 – 31:00	16		Introduce individual question
	31:00 – 32:00			1-2 min to answer question
	32:00 – 33:00	17-18	The process of hypothesis testing, Case Study: Compare your sample results to the null distribution	
	33:00 – 34:00	19		Introduce Shiny app
	34:00 – 35:00	20		Introduce graph
	35:00 – 36:00	21-22		Introduce group task
	36:00 – 40:00			4 min for group task
	40:00 – 43:00	23	The process of hypothesis testing, Case Study: Decide if the null hypothesis is plausible	3 min to answer question
	43:00 – 48:00	24		Debrief case study
	48:00 – 50:00	25	Reviewing the hypothesis testing process	