Research design for Experimental Linguists  
August 24-28, 2020

Recommended literature:

Day 1
Introduction course - Research question – predictions
- How to formulate a proper research question (RQ)
- Deduct predictions from RQ
- Practice with formulating RQs and predictions

Day 2
Statistical model – Variables – Level of measurement
- What is a statistical model?
- What are variables
  ▪ Dependent / independent variables
  ▪ Level of measurement
- What variables need to be measured in order to answer RQs
- What is the required level of measurement

Day 3
Probability – Significance – Hypothesis testing – Power – Effect size
- How do we use probability to test hypotheses
- The importance of power and effect size in testing statistical models

Day 4
Correlation / Regression – T-test / ANOVA
- Testing relationships between variables
- Testing differences between variables

Day 5
Read: Articles to be determined

Putting everything together
- Assignment: Analyze / dissect article
  ▪ What is the RQ and hypothesis
  ▪ Which variables are measured to answer hypothesis
  ▪ What is level of measurement of these variables
- Q&A (email questions beforehand)