Research design for Experimental Linguists
July 4-8, 2022

Recommended literature:
- Field, A.P. (2013). Discovering statistics using IBM SPSS Statistics (4th ed.). London: Sage.
- Eddington, D. (2015). Statistics for Linguists: A Step-by-Step Guide for Novices. Cambridge: Cambridge Scholars Publishing.

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 articles
    - 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)