QuACK 2025 Summer Bootcamp Nina Schoener, Sophie Regan, & Victoria Keating

Session 4 Practice Activities

For today's practice, you'll go through some of the steps that we talked about from coming up with a research question to picking the right statistical test. Recall, these steps were:

- Identify your independent and dependent variables (and groups/levels)
- Decide what your null and alternative hypotheses are (H₀ and H_a)
- Pick your test, α, and do a power analysis
- Calculate your test statistics (e.g., t for t-tests or F for ANOVAs)
- Decide whether to retain or reject H₀
- Make sure you can clearly explain your conclusion in words!

This is similar to writing a pre-registration, which is useful for clarifying your own thinking about your studies, and for letting other people know what analyses you're committing to in advance!

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