

## Planning and Writing about Analyses

There are several reasons one might want to write about an analysis plan.

- In a collaboration proposal, to give the client some idea of what you're considering doing and convince them what you have in mind is reasonable.
- For the methods section of a scientific paper, so that a reader can understand what you did.
- In a formal study proposal (usually for clinical research) that outlines ahead of time exactly what you're going to do, in enough detail so that anyone could implement it later.

I have more experience with the first and second; the third is much more detailed.

Consider a fairly generic case study, where a response (say, blood pressure) was measured before and after a treatment or a control, and participants were randomized between the groups. Age, gender are covariates of interest.

What kind of analyses would you do? Consider both descriptive statistics and inferential statistics.

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What information do you think you would include when writing about it?

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## Planning Analyses

Brainstorm some ideas for analyzing the eagle wing flapping data. For now, don't feel like your ideas have to address every concern.

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**Guidelines for HW2:** *Analysis Plan:* What descriptive statistics and graphics will you make? What models/analyses will you run, and what questions will they answer? Which variables will you use and how? What will you report from these analyses, and how will that answer the subject matter question?

This may vary from quite detailed to rather vague, depending on the project. For this homework assignment, try to be as specific as possible about the methods you have in mind.

Plan what you might write in a collaboration plan about the analysis for this case.

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Name: \_\_\_\_\_

What methods for analyzing the eagle wing flaps data feels most reasonable to you?

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