**Name: \_\_\_\_JERILYN CALAOR\_\_\_\_\_ Date: \_\_\_\_AUGUST 22, 2018\_\_\_\_\_\_\_**

1. General Info
   1. Proposed Title: *Do birds control agricultural pests in the Marianas?*
   2. Likely coauthors: *Haldre S. Rogers, Eric Cook?, Jenny Howard?, Eliza Hooshiar?, Maya Raymundo? Others?*
   3. Proposed journal (1st choice): *[enter journal here]*
   4. Proposed journal (backup): *[enter journal here]*
2. The overarching question of this paper is *Do birds control agricultural pests in the Marianas?*
3. Which is important/interesting/unresolved because (1-4 reasons)
   1. *Most of Guam’s native birds have been extirpated, and in turn, likely the control of agricultural pests*
   2. *The ecological function of birds, especially as bio-control agents, has not been extensively explored in the Marianas*
   3. *There is still much debate in agricultural systems if birds do indeed act as bio-control agents*
4. To answer this question/explore this topic, I addressed the following objectives: (NB you can have more or less than 3 objectives, but I recommend 2-4)
   1. *Determine differences in crop health in the presence/absence of birds*
   2. *Assess whether pest abundances are affected in the presence/absence of birds*
   3. *[fill in]*
5. I addressed these objectives: (use list/bullet points below)
   1. In *the Mariana Islands (Guam, Saipan, and Rota)*
   2. With the following focal/model species/model system: *four local crops (long beans, eggplant, cucumbers, and Chinese cabbage)*
   3. And the following approaches: *paired experiment in which one area kept out birds using netting and another nearby area with access to birds*
6. For my analysis, I want to test: *whether there are differences in plant health (determined by several factors listed in #7) between plants in areas with and without birds*
7. My response (y-axis) variable is: *plant health at harvest indicated by growth, production, insect diversity and abundance, and leaf damage on crops*
8. My predictors (x-axis/colors/shapes on the graph) are: *enclosure vs open treatment*
9. I replicated this across multiple *farms and islands*
10. I think I will need to analyze these data using a *ANOVA*
11. I anticipate I will get a final figure(s) that will look like this

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