**Name: \_Nicole Wackerly\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_8/25/2018\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. General Info
   1. Proposed Title:

*Thermo-imaging bipedalism on the savanna: Chimpanzee locomotion at Fongoli, Senegal and implications for the evolution of hominin bipedalism*

* 1. Likely coauthors: *Jill D. Pruetz, Amy Toth*
  2. Proposed journal (1st choice): American Journal of Physical Anthropology (eventually, these are just preliminary data for my dissertation…)
  3. Proposed journal (backup): Journal of Human Evolution

1. The overarching question of this paper is  *whether bipedalism aids thermoregulation*
2. Which is important/interesting/unresolved because (1-4 reasons)
   1. *One of the major hypotheses to explain the evolution of bipedalism in the hominin lineage looks to heat stress as the ultimate selective pressure*
   2. *Bipedal posture is predicted to reduce UV radiation exposure*
3. 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. *Examine whether different postural and locomotor behaviors differ in their relative exposure to heat stress*
   2. *Determine if open habitats exert significant thermal stresses on apes at Fongoli*
4. I addressed these objectives: (use list/bullet points below)
   1. In *Fongoli, Senegal*
   2. With the following focal/model species/model system: *West African chimpanzees (Pan troglodytes)*
   3. And the following approaches: *focal follows following a rough 5-minute interval schedule, with some opportunistic sampling*
5. For my analysis, I want to test: *how different factors influence chimpanzee body temperature. For instance, do certain positional behaviors (e.g. bipedal stand) appear to lower the body temperature?*
6. My response (y-axis) variable is: *body temperature*
7. My predictors (x-axis/colors/shapes on the graph) are: *positional behavior, context, ambient temperature, humidity, sun exposure*
8. I replicated this across multiple … There are 12 adult males in the community, and I have samples on each.
9. I think I will need to analyze these data using a *not quite sure…still figuring this part out…*
10. I anticipate I will get a final figure(s) that will look like this *…not really sure yet*