

Preregistration

My preregistration for AsPredicted.org

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Data collection	Yes , we already collected the data. The data that is considered in this mini project was collected in 2015 and 2016 in Ghana, West Africa. It was published in 2022. It considers the roosting behavior of the Gambian epauletted fruit bat (<i>Epomophorus gambianus</i>).
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Hypothesis

The aim of this mini proect is to reproduce the results from the study with the data I am using. The authors found that roost choice is not random, and I expect in my data analysis to determine the same result.

Dependent variable

The dependent variable of this study is roost location. It is determined using radiotelemetry, and once the roost structure is located measurements are taken such as: roost type, tree species, tree DBH, tree height, and other characteristics.

Conditions	There are two conditions in my basic analysis that roosts will be assigned to, occupied roost vs. random roost.
Analyses	I will use a t-test to compare the tree height, tree DBH, and tree crown diameter of occupied roosts vs random roosts to see if a true difference occurs.
Outliers and exclusions	I will compute the overall mean and standard deviation across all conditions, and winsorize at 2.5 SD above/below the mean.
Sample size	The data has been collected over October 2015 and February 2016. 60 bats were tagged and tracked total.
Other	
Study type	<p>Finally. For record keeping purposes, please tell us the type of study you are pre-registering.</p> <ul style="list-style-type: none"> • Observational

References

Amponsah-

Mensah et al.

(2022)

Amponsah-Mensah, K., Cunningham, A. A., Wood, J. L. N., & Ntiamoa-Baidu, Y. (2022). Roosting behavior and roost selection by *Epomophorus gambianus* (Pteropodidae) in a west African rural landscape. *Biotropica*, 54(4), 1030–1041. <https://doi.org/10.1111/btp.13127>