

# Graudate Homework: Mini-Power Analysis

*Your\_Name\_Here*

## Graduate Student Assignment

- Design/Describe a study involving vertebrate populations
- Describe potential areas of correlation due to study design, spatial/temporal autocorrelation, and animal behavior.
- Describe sources of variation
- Simulate these data using both deterministic and stochastic processes.
- Simulate *at least* two more datasets with higher or lower variability in at least one process.
- **OR** hold the variance constant but vary the sampling effort (number or area and or frequency of sampling)
- Analyze these datasets using an appropriate statistical method
- Compare and describe the results