

Methods in Experimental Ecology II (PCB 6468)

Exercise 2 - Averages

Due January 29, 2016

Using the script `Averages` in `Jags.R`, calculate for **10** sets of samples of **10** random individuals:

1. Mean height using *frequentist* estimates.
2. Mean height using *Bayesian* estimates with *uninformed* priors.
3. Mean height using *Bayesian* estimates with the same *informed* priors as shown in class.
4. Obtain the *confidence and credibility intervals* of each estimate.
5. Repeat steps 1-4 using **10** set of samples of **100** random individuals.
6. Present and plot all your results in an informative way.
7. Discuss the differences between approaches with small and large sample sizes.



NOTE1: Remember to use the same data to compare approaches for each set, but to change it between sets.

NOTE2: Please submit your paper as a single word document. Remember to include your raw data and all the appropriate R code as appendices at the end.