# TITLE: SUCCES OF REPRODUCTION OF MADAGASCAR BUZZARD AND SIBLICIDE

**Background:** The siblicide is phenomenon observed especially in MFE, but rarely observed in MBD. The existence of this phenomenon is still doubtfull in MBD and the cause is unknown.

**STATISTICAL QUESTION:** Does the rate of feeding affects the siblicide?

### **MECHANICAL QUESTION**

How does feeding influence the rate of siblicide?

### STATISTICAL QUESTION:

Does the rate of feeding affects the siblicide?

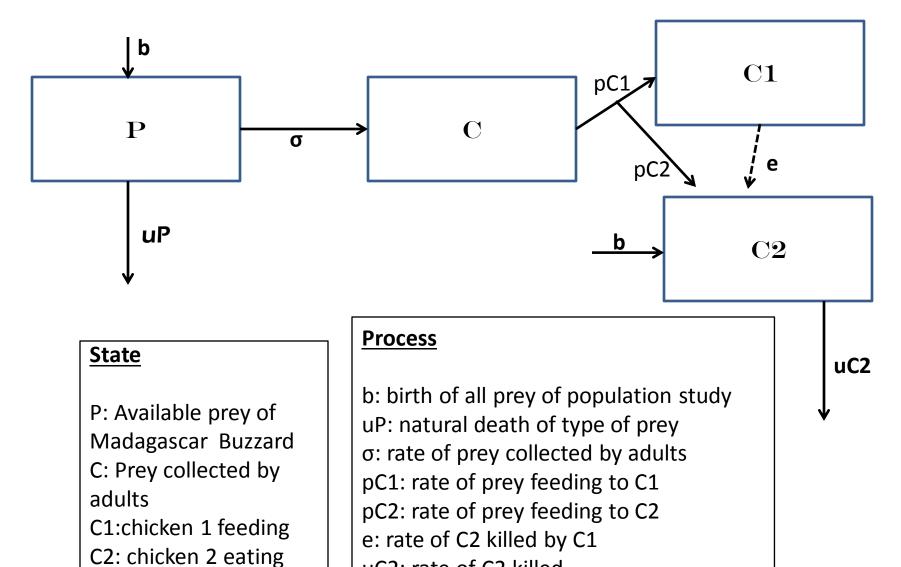
- Response variable: presence/absence of siblicide = second chicken killed or not
- Predictor variables: prey of feeding of C1 efficient or not /quantity of prey collected enough for C1 and C2 or not
- Family: binomial
- Link: logit
- Hypothesis: Quantity of feeding of chick is related with presence or absence of siblicide.
- R CODE

glmr(siblicide ~rate of feeding, family = "binomial", link=logit,data= my data)

## BRIEF SUMMARY OF THE DATA USING

had the data about quantity of prey collected by adults during breeding period. The of prev collected by adults quantified. The female feed the two chicks. When the first chick had more beaked, both chick survive cause prey collected are enough. If it was not enough, the first chick killed his brother or sister. Finally, we get the rate of siblicide and the rate of feeding.

#### How does feeding influence the rate of siblicide? **MECHANISTIC QUESTION:**



uC2: rate of C2 killed

### **NEXT STEPS**

- Conduct more thorough sampling of Buteo brachypetrus about siblicide to augment data suggesting that disponibility of prey affect this phenomenon
- Conduct further field studies in other regions of Madagascar to determine if the habitat limited the existence of siblicide or a specific prey is the reason of this apparition