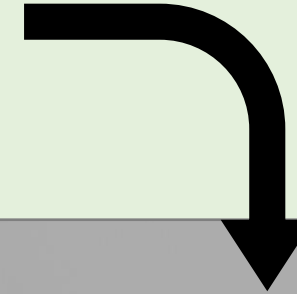


CATACTERIZATION OF HABITAT FOREST OF AVIAN COMMUNITY - ANALAMAY

Madagascar's human population : 81 % (n=25.7 M) living in rural areas
People live intimately **dependent** on local **resources** from the **forests**
Plants and **forest** are especially **negatively affected** by human's needs.

Instat (2020); Primack (2002); Brown (2007).



Avian community & Human share the forest resources
Avian community = affected by **Human activities**
Avian community = affected by **Forest degradation**

STATISTICAL QUESTION : What is the relationship between species richness of avian community and characteristic of forest habitat in Analamay ?

MATHEMATIC QUESTION : How does the forest degradation by human activities affect avian abundance in Analamay ?



STATISTICAL QUESTION :

What is the relationship between species richness of avian community and characteristic of forest habitat in Analamay ?

Hypothesis :

We predict that the avian species richness is changing with the characteristic of forest habitat, that means that the avian species richness is decreasing with forest degradation

Family : Gaussian (or **poisson**, depending on distribution)

Response Variable :

Avian species richness

Link: Identity (or **log**, if family = poisson)

Potential Predictors:

The floristic richness and degradation status

R Code :

```
glmer(avianspp.richness~fores_typ+heigh_forest+canopy_cover+trees_density_DBH_trees+degradation_status+floristic_richness + (1 | transect), family='poisson', data='my.data')
```

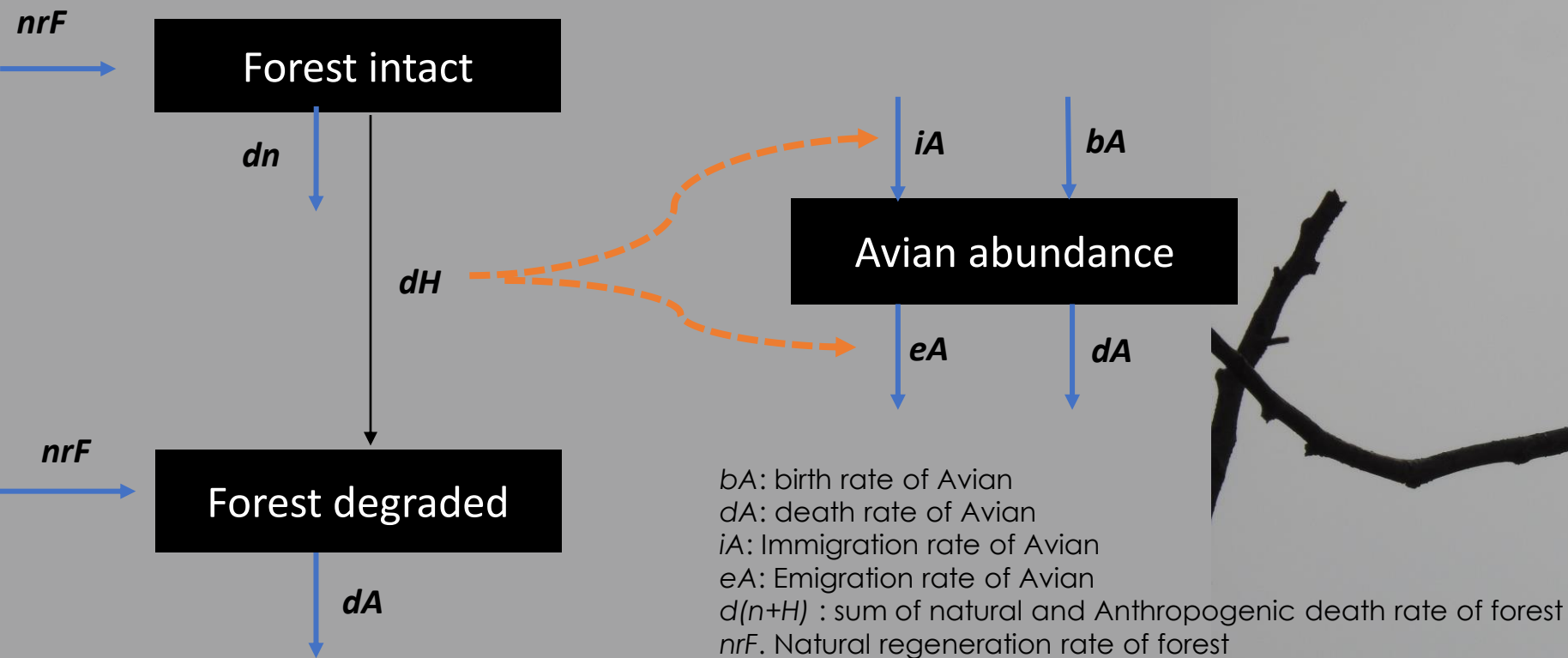


DYNAMICAL MODEL QUESTION :

How does the forest degradation by human activities affect avian abundance in Analamay ?

Hypothesis :

Degrading forest decrease avian abundance



PERSPECTIVES

1. Fit my models

2. Collect data : **Biological inventory (avian & flora specie)**

Structural forest study

3. Do analyses, write a paper and publish.