

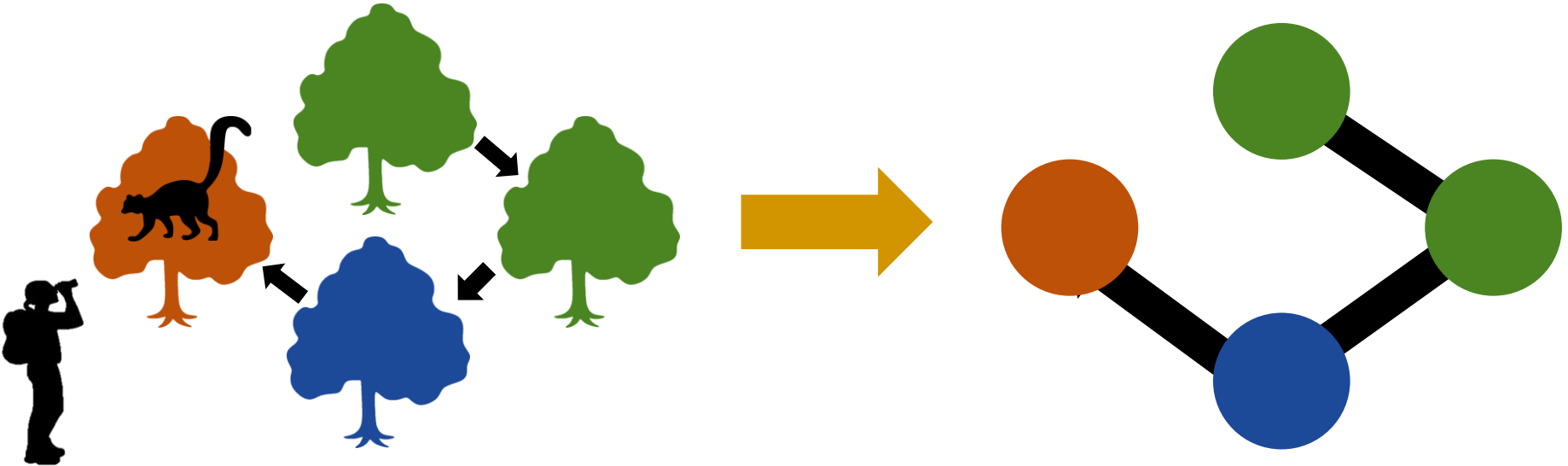
Examining spatially explicit networks of individual plant interactions with a frugivorous lemur

INTRO

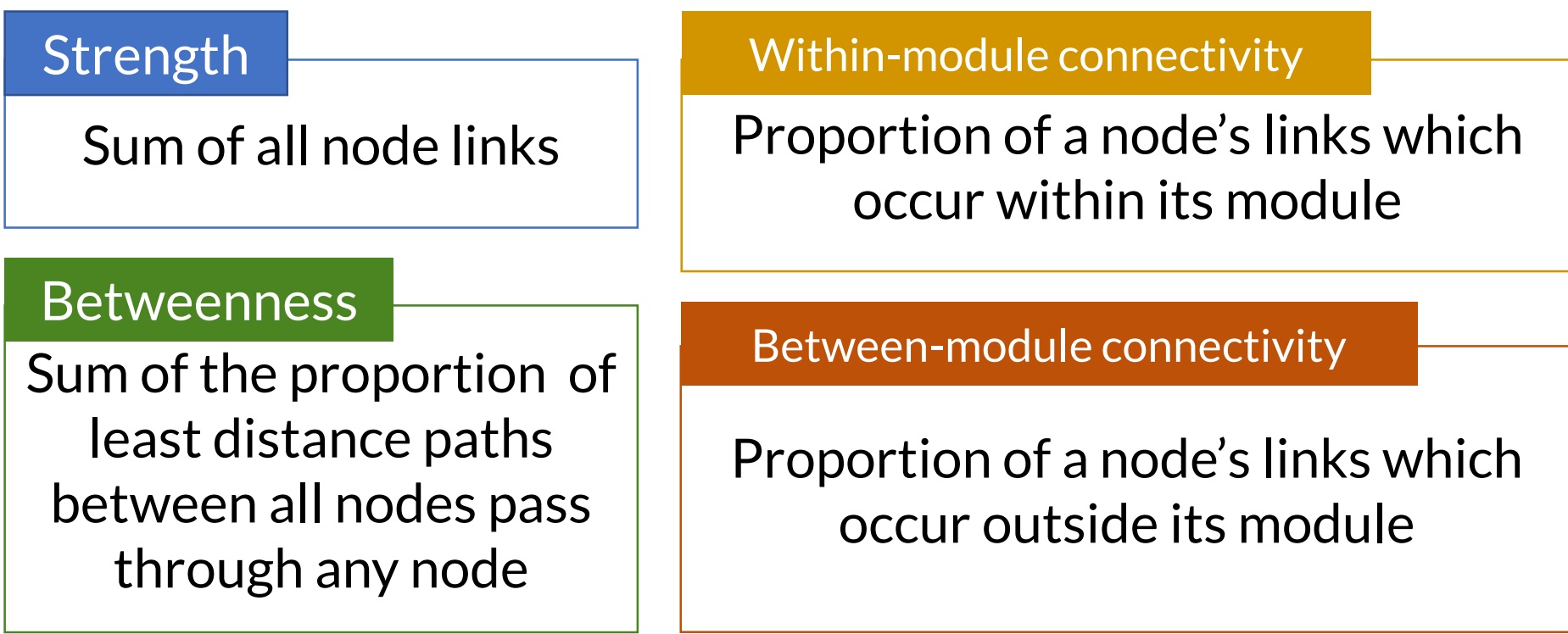
- Plant-animal interactions structure terrestrial communities and play an important role in shaping the biodiversity of tropical ecosystems
- Examination these interactions at the individual level has revealed ecologically relevant variation which may be missed in species level studies
- By studying networks of frugivore-plant interactions I hope to contribute to an understanding of the mechanisms shaping individual plant-animal interaction patterns

METHODS

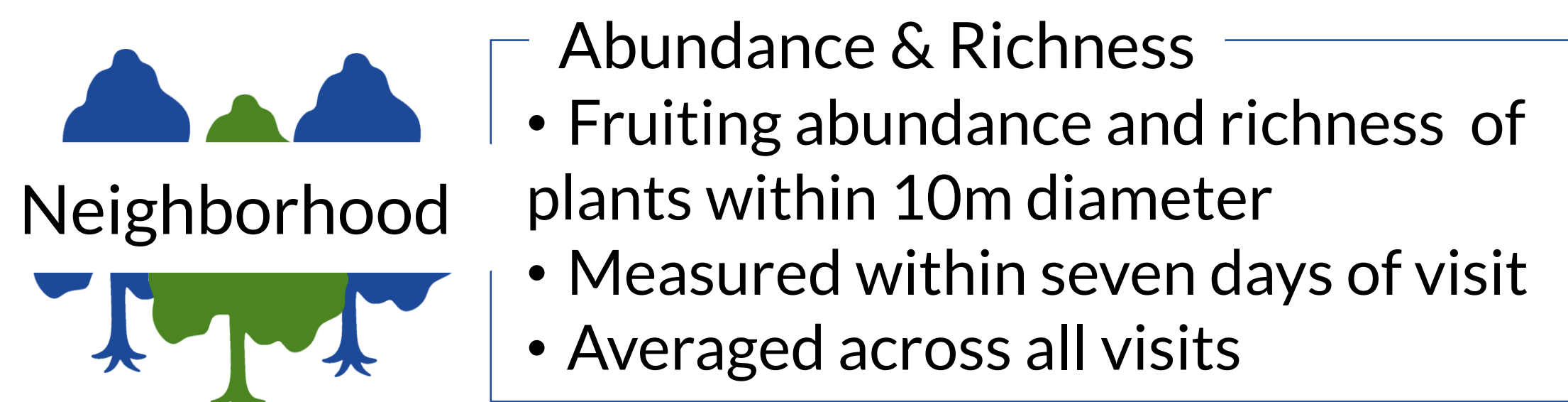
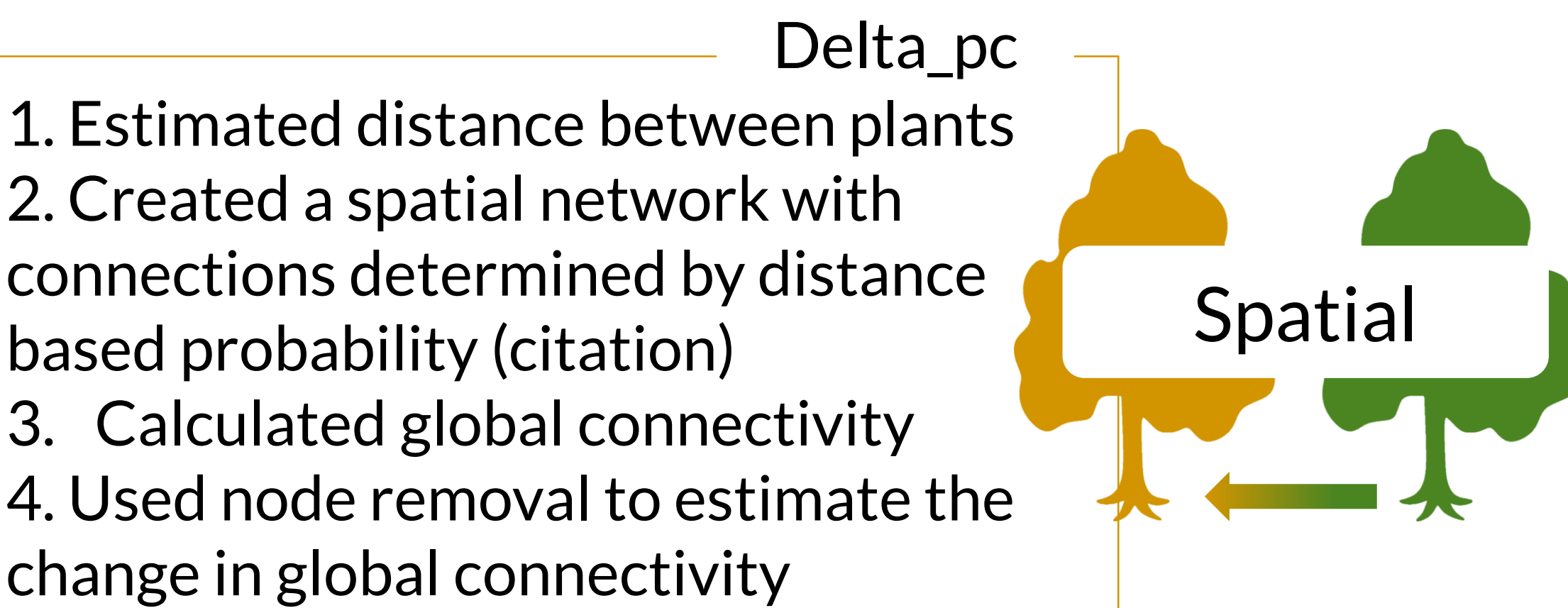
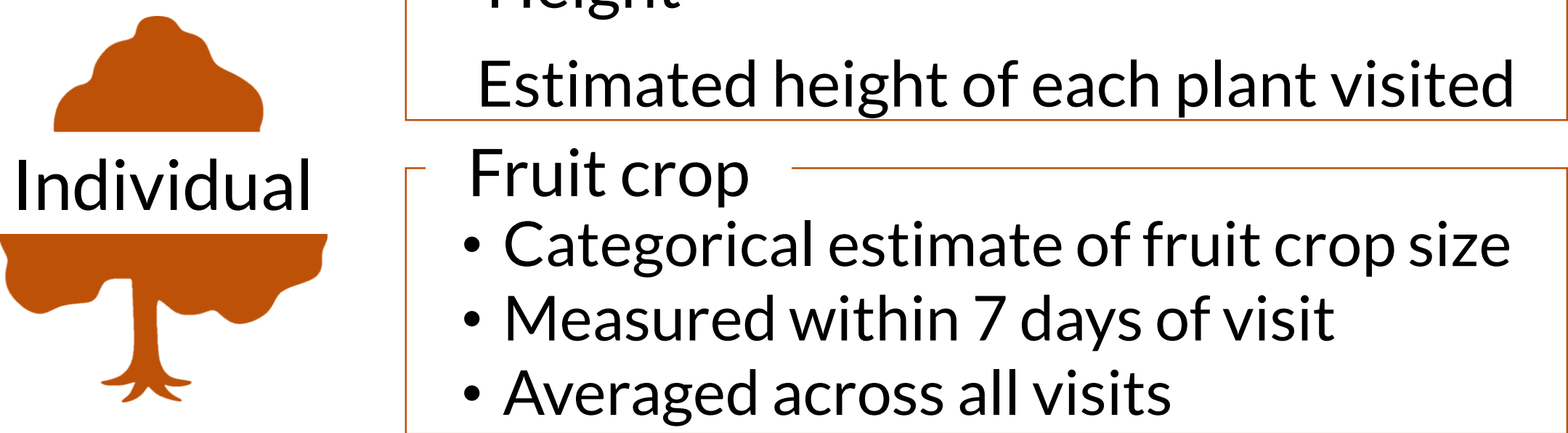
- Direct observation of 2 lemur groups



- Built network of visited plants linked by lemur movements and calculated network metrics:



- Measured individual, neighborhood and spatial plant traits.



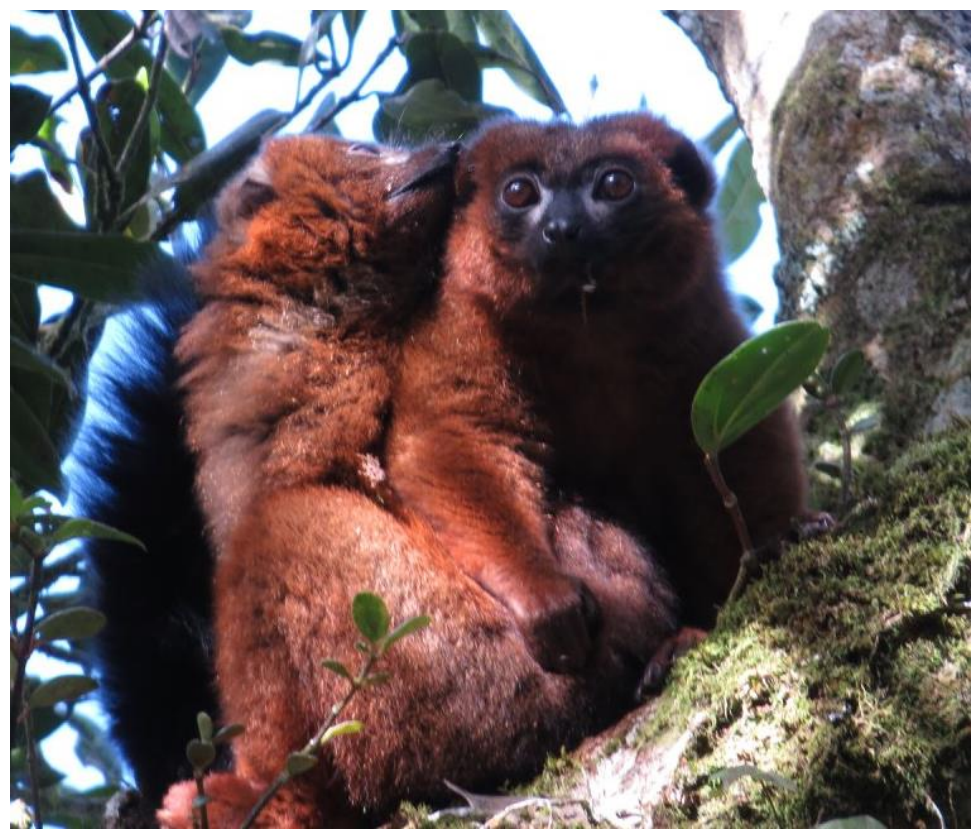
- Used generalized linear models with AIC based model selection and averaging to examine how plant traits relate to network metrics



RICE

mutualist (*Eulemur rubriventer*)

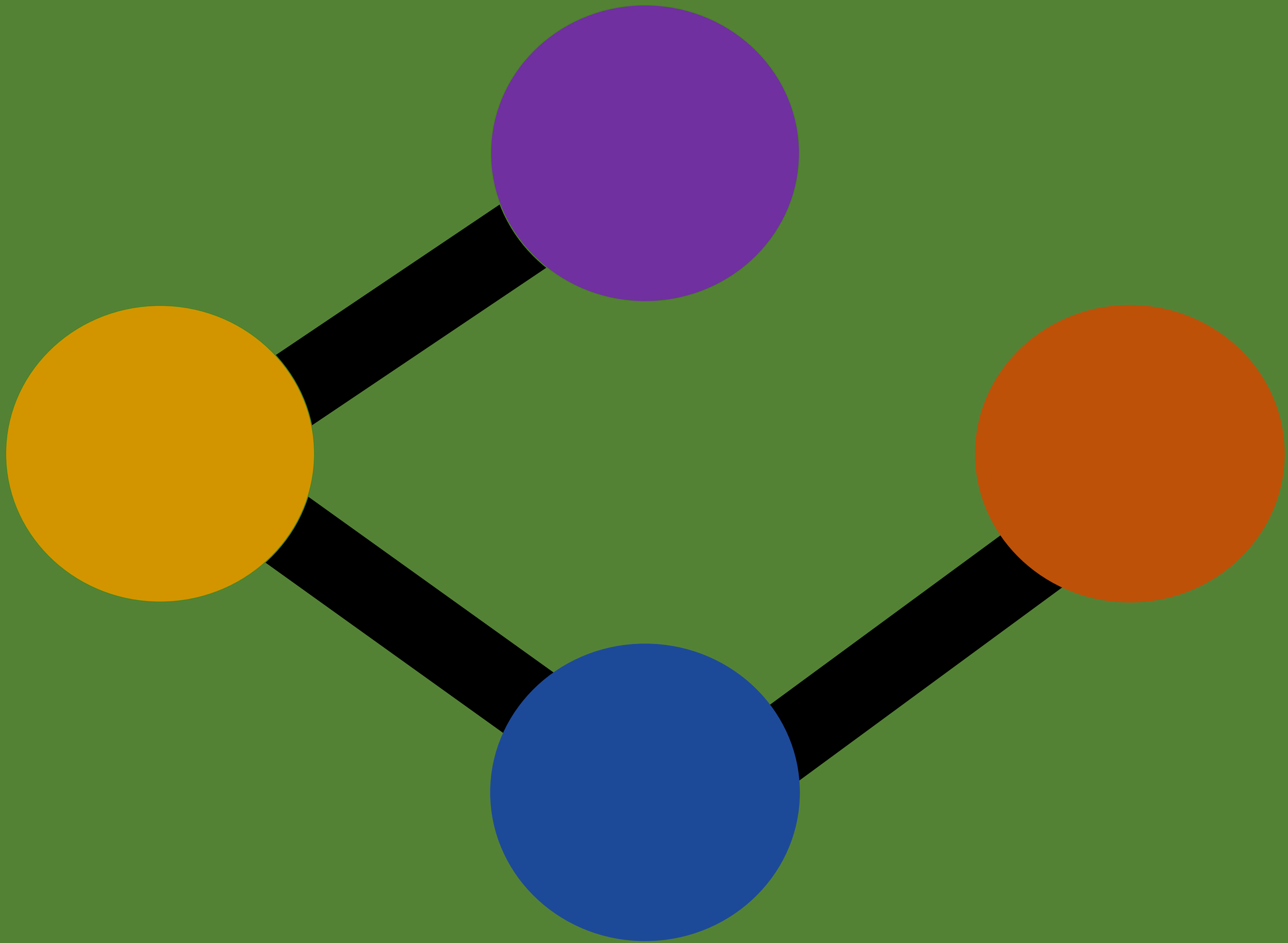
Jadelys Tonos¹, Onja Razafindratsima and Amy Dunham



Left. Juvenile female from the GOT group.
Right. Adult and Subadult males of the SKF group

Patterns of interactions between frugivorous lemurs and fruiting plants are influenced by:

Individual plant traits
&
Plant spatial patterns



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RESULTS

- Across all response variables only fruit cop, height and delta_pc had any significant influence.
- For both betweenness and within module degree there was no significant effect from any response variable.
- Results varied between groups so group specific and combined analysis results were used.