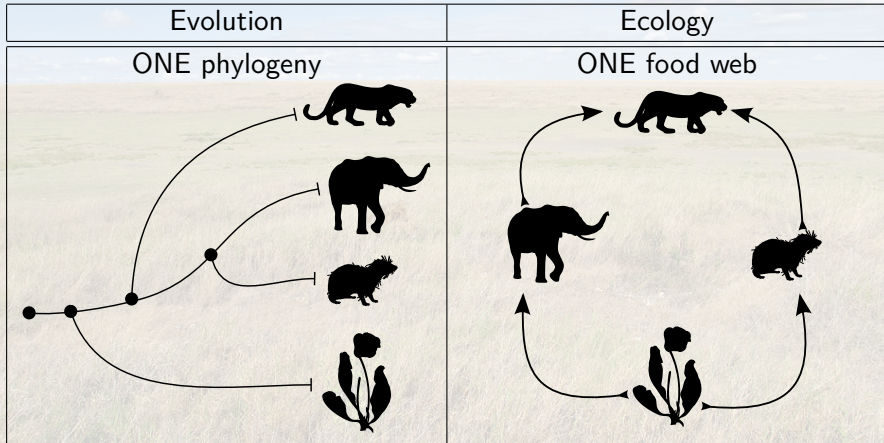


# Stochasticity and Evolution in Food Webs

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Granada Seminar June 16, 2015

# species ARE related



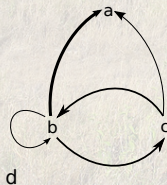
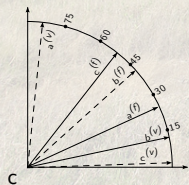
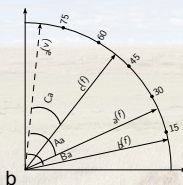
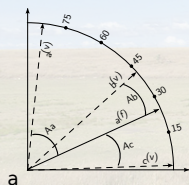
# Evolution in/of Ecology

Evolution shaped the stochastic backbones of Food Webs

[Two images: Serengeti and Weddell]

# Food Webs embedded

[  
center]Random Dot Product Graphs



Phylogenetic vs. Observed traits

$$\text{vcv}(\hat{X} | \text{evolutionary model}) \text{ vs. } \text{vcv}(X)$$

# More questions (than answers)

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- ▶ Evolutionary model is inadequate

# (Not a) Conclusion

- Spoiler 1: Evolutionary distinctiveness vs. Web Centrality

## (Not a) Conclusion

- ▶ Spoiler 1: Evolutionary distinctiveness vs. Web Centrality
- ▶ Spoiler 2: An ecological informed model of species evolution maybe it's (almost) there.

# Thanks!

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By the way, I'm looking for a postdoc.