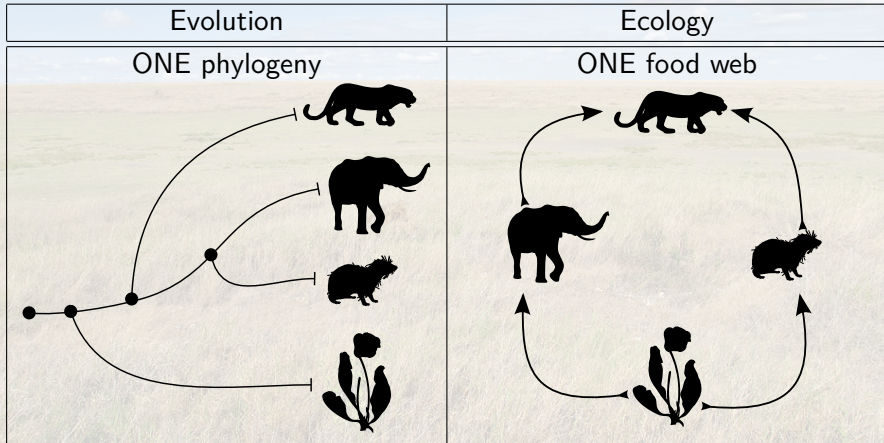


# Stochasticity and Evolution in Food Webs

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Granada Seminar June 16, 2015

species ARE related



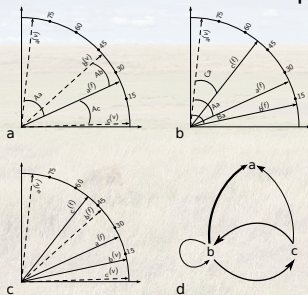
# Evolution in/of Ecology

Evolution shaped the stochastic backbones of Food Webs

[Two images: Serengeti and Weddell]

# Food Webs embedded

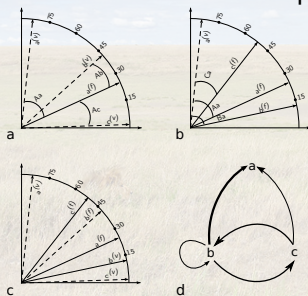
## ► Random Dot Product Graphs





# Food Webs embedded

## ► Random Dot Product Graphs



## ► Phylogenetic vs. Observed traits

$$\text{vcv} \left( \hat{X} \mid \text{evolutionary model} \right) \text{ vs. } \text{vcv} (X)$$

# More questions (than answers)

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# (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!

Joint work with Daniel B. Stouffer (University of Canterbury)

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