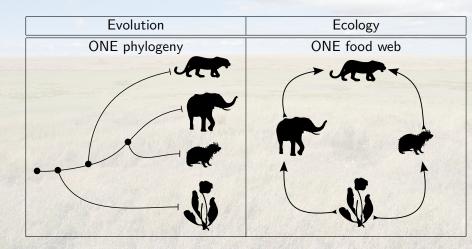
Stochasticity and Evolution in Food Webs

Giulio Dalla Riva University of Canterbury, NZ

Granada Seminar June 16, 2015

species ARE related



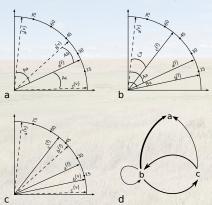
Evolution in/of Ecology

Evolution shaped the stochastic backbones of Food Webs

[Two images: Serengeti and Weddell]

Food Webs embedded

Random Dot Product Graphs



Phylogenetic vs. Observed traits

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

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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.