

# Stochasticity and Evolution in Food Webs

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# species ARE related

Evolution	Ecology
ONE phylogeny image	ONE food web image

# Evolution in/of Ecology

Evolution shaped the stochastic backbones of Food Webs  
image

# Food Webs embedded

Random Dot Product Graphs

image

Phylogenetic vs. Observed traits

$\text{vcv}(X_e | \text{evolutionary model}) \sim \text{vcv}(X)$

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- ▶ Fine wirings may be deceiving
- ▶ Evolutionary model is inadequate

# (Not a) Conclusion

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- ▶ 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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Daniel B. Stouffer (University of Canterbury)

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