

# Draft information

version: draft-0.0

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## Requests to coauthors

- Should I include more networks? Easy to get some more from other published studies. Could improve the manuscript but every new data set has to be cleaned independently. This could take around 2 days per network.
- Should I increase the resolution of the bioclimatic variables? Currently working with 2.5' (~5km). Increasing to 30" (~1km) might improve the analysis but we're talking about working with ~25GB+ of climatic data instead of the 1GB used now. Unsure the benefits would outweigh the costs.
- Audrey: Could you please fill in the gaps in the rationale behind filtering out occurrences with potential low quality coordinates (page ??, line ??)
- I chose, rather arbitrarily, a mean absolute error of 10% for the sensitivity analysis. Does this choice sound appropriate to you?
- Should I remove the species overall generalism and the size of the grinellian niche from the model to simplify things. Both contribute little to the model and the story. For the former, seems to be redundant once the number of possible interacting species has been included in the model. For the later, there is little biological reasons (what I could gather from the lit.) to justify their inclusion in the model. What you think? If not, at the very least I think I would move panels a and c in Fig. 5 to the supplementary info.
- What you think would be the best way to end the paper? Thinking about what could be highlighted in the conclusion.

## Done

- Downloaded network data from the Web of Life and cleaned it. I didn't anticipated data needed SO MUCH work! I estimated three days to do this but took roughly 3 weeks to do it properly and there is still some work to do. Quite a mess...

- Downloaded bioclimatic and habitat data
- Downloaded species occurrences. Wasn't straightforward as there is a lot of species and lots of restrictions with the GBIF API. About a week getting this to work.
- Calculated environmental niche size and the environmental suitability of species in their communities
- Modelled the normalised degree of species as a proxy of eltonian niche size using a bayesian framework

## To-do

- Manually fix the remaining species names that are incorrect and were not picked up by the automatic procedure. Doing 5-10 per day, so should be done in a couple months
- Fix references. There are lots of mistakes re. author, years and publication venue particularly for those from which data was downloaded.
- Finish off discussion with a punchy conclusion.
- Fix the WAIC table. Currently shows the model without guild as unknown.
- Add Lupe's feedback to the intro. Need to better define stress and Eltonian/Grinellian niche and don't need to say realised Eltonian niche when I really just mean number of partners