The pollination trade-off

Draft information

Fernando Cagua, Hugo Marrero, Jason Tylianakis, Daniel Stouffer

Changes

- Now using `docker` to manage project dependencies. Image is now available on dockerhub efcaguab/pollen-competition.
- Removing *quantity* and *quality* of pollination in favour of the plain metrics of *conspecific* and *heterospecific* pollen deposition.
- Rewording the plant strategies idea as it was confussing. Now the combination of ecological variables (number shared pol., abundance, visitation patterns, and traits) define a species *realised niche* (this was previoulsy called the plant strategy). Plants that can have very different realised niches across different communities have a *flexible strategy* (this was previously called strategy as well).
- Manuscript formatted for submission to Ecology Letters.
- Sticking to past tense throughout the methods.
- GLMM to fit slope of heterospecific-conspecific pollen relationship tests all communities at once (it was a model per community). Response variable is the number of grains (it was number of grains per stigma) and the (log) number of stigmas in the flowers has been included as an offset term.
- Using a similar approach to compare conspecific pollen deposited in open and bagged flowers (I used a series of Mann-Withney U tests before)
- Added facilitation model results tables in the Supplementary Information
- Made Figure 2 (model of enviornmental factors) one-column
- Applied a green palette to all figures. Improves legibility when looking at it in a screen an performance when printed in greyscale is maintained
- Show niche points for all species and not only those in two communities or more
- Added the following elements to the disussion:
    - That our networks are a snapshot
    - How the degree-trait originality relationship can be shaped by abundance
    - How strategy could be a result of a specie's historical communities
    - How attracting pollinators using flowering plants might work

Todo

- Polish discussion, will appreciate input here. Hugo, feel free to make edits to the text. Large and small. will really appreciate specific input here.
- Polish supp. info.
- Spell-check everything & check that reference list is correct.

Questions

Feel free to come back here after you've read the manuscript. Thanks!