Temperature niche differentiation of plants predicts multi-species phylogenetic and functional trait space but not taxonomic composition in human-dominated landscapes

Tobias Roth * [1,2] Eric Allan [3] Peter B. Pearman [4,5] Valentin Amrhein [1]

[1] *University of Basel, Zoological Institute, Vesalgasse 1, 4051 Basel, Switzerland*

[2] *Hintermann & Weber AG, Austrasse 2a, 4153 Reinach, Switzerland*

[3] *University of Bern Institute of Plant Sciences, 3013 Bern, Switzerland*

[4] *Department of Plant Biology and Ecology, Faculty of Sciences and Technology, University of the Basque Country, UPV/EHU, Apdo. 644, 48940 Leioa, Spain*

[5] *IKERBASQUE, Basque Foundation for Science, 48011 Bilbao, Spain*

* *corresponding author: t.roth@unibas.ch*

Null models play an important role in community assembly. SDM could be used as a dynamic way to construct Null models. We aim to infer community assembly along the elevational gradient in human dominated landscape.

Keywords: functional ecology, species distribution models

INTRODUCTION

Das ist ein Test (Roth et al. 2014).

METHODS

Study Area

We worked in a **beautiful** place with lots of trees, like *Quercus suber* and *Laurus nobilis*.

Data collection and analysis

We applied a linear model where

$$y_i = \alpha + \beta * x_i$$

We used the statistical language `R` (R Core Team, 2018) for all our analyses. These were implemented in dynamic rmarkdown documents using `knitr` (Xie, 2018; Xie, 2015; Xie, 2014) and `rmarkdown` (Allaire, Xie, McPherson, Luraschi, Ushey, Atkins, Wickham, Cheng, and Chang, 2018) packages. All the multilevel models were fitted with `lme4` (Bates, M{ä}chler, Bolker, and Walker, 2015).

RESULTS

Trees in forest A grew taller than those in forest B (mean height: 25 versus 13 m). And many more cool results that get updated dynamically.

DISCUSSION

Discuss.

ACKNOWLEDGEMENTS

REFERENCES

Roth, T., M. Plattner, and V. Amrhein. 2014. Plants, birds and butterflies: Short-term responses of species communities to climate warming vary by taxon and with altitude. PLoS ONE 9:e82490.

List of Tables

Table 1: A glimpse of the famous *Iris* dataset.

Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species
5.1	3.5	1.4	0.2	setosa
4.9	3.0	1.4	0.2	setosa
4.7	3.2	1.3	0.2	setosa
4.6	3.1	1.5	0.2	setosa
5.0	3.6	1.4	0.2	setosa
5.4	3.9	1.7	0.4	setosa

Table 2: Now a subset of mtcars dataset.

	mpg	cyl	disp	hp	drat	wt	qsec	vs	am	gear	carb
Merc 280	19.2	6	167.6	123	3.92	3.440	18.30	1	0	4	4
Merc 280C	17.8	6	167.6	123	3.92	3.440	18.90	1	0	4	4
Merc 450SE	16.4	8	275.8	180	3.07	4.070	17.40	0	0	3	3
Merc 450SL	17.3	8	275.8	180	3.07	3.730	17.60	0	0	3	3
Merc 450SLC	15.2	8	275.8	180	3.07	3.780	18.00	0	0	3	3
Cadillac Fleetwood	10.4	8	472.0	205	2.93	5.250	17.98	0	0	3	4
Lincoln Continental	10.4	8	460.0	215	3.00	5.424	17.82	0	0	3	4

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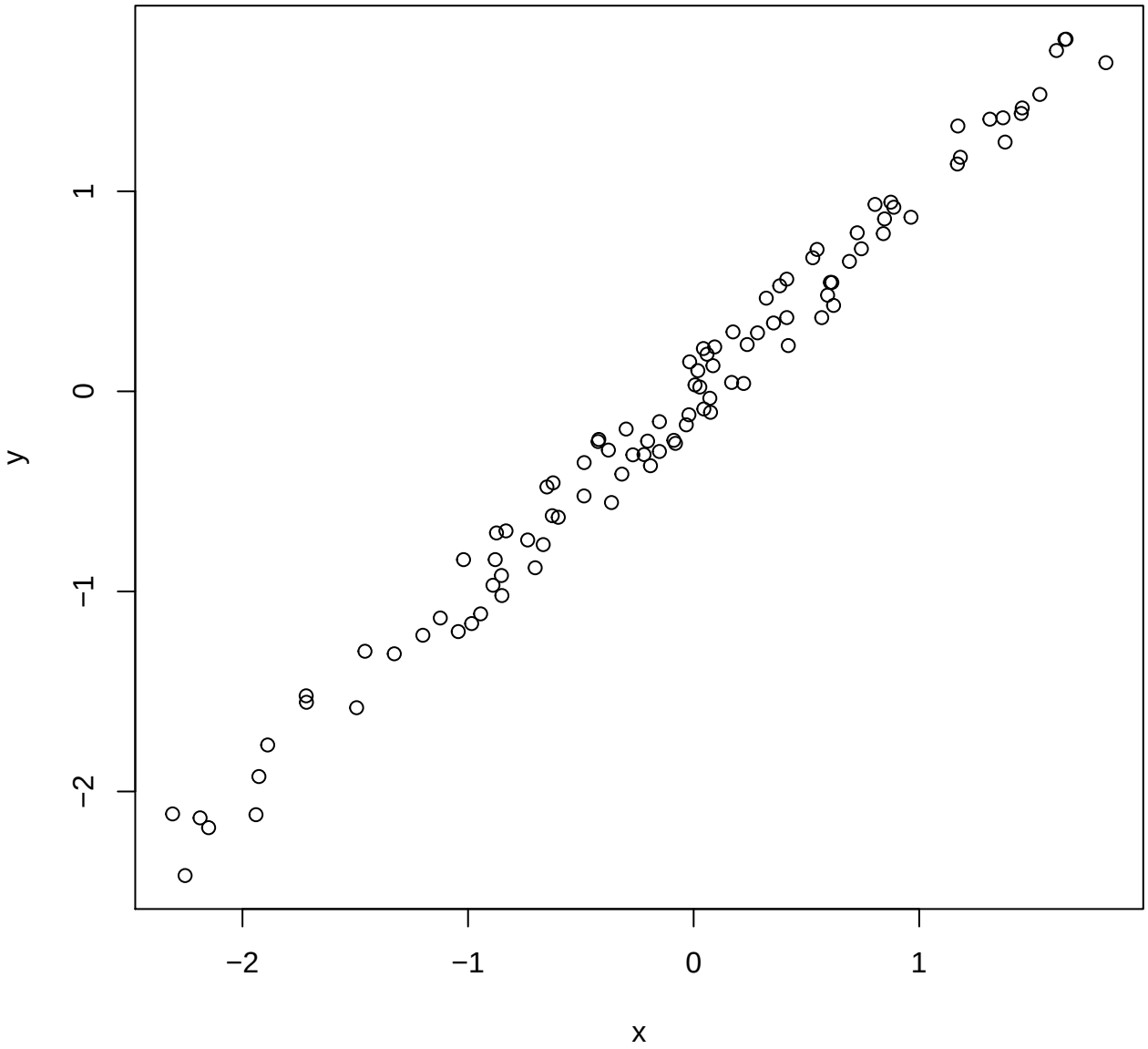

Figure 1: Just my first figure with a very fantastic caption.

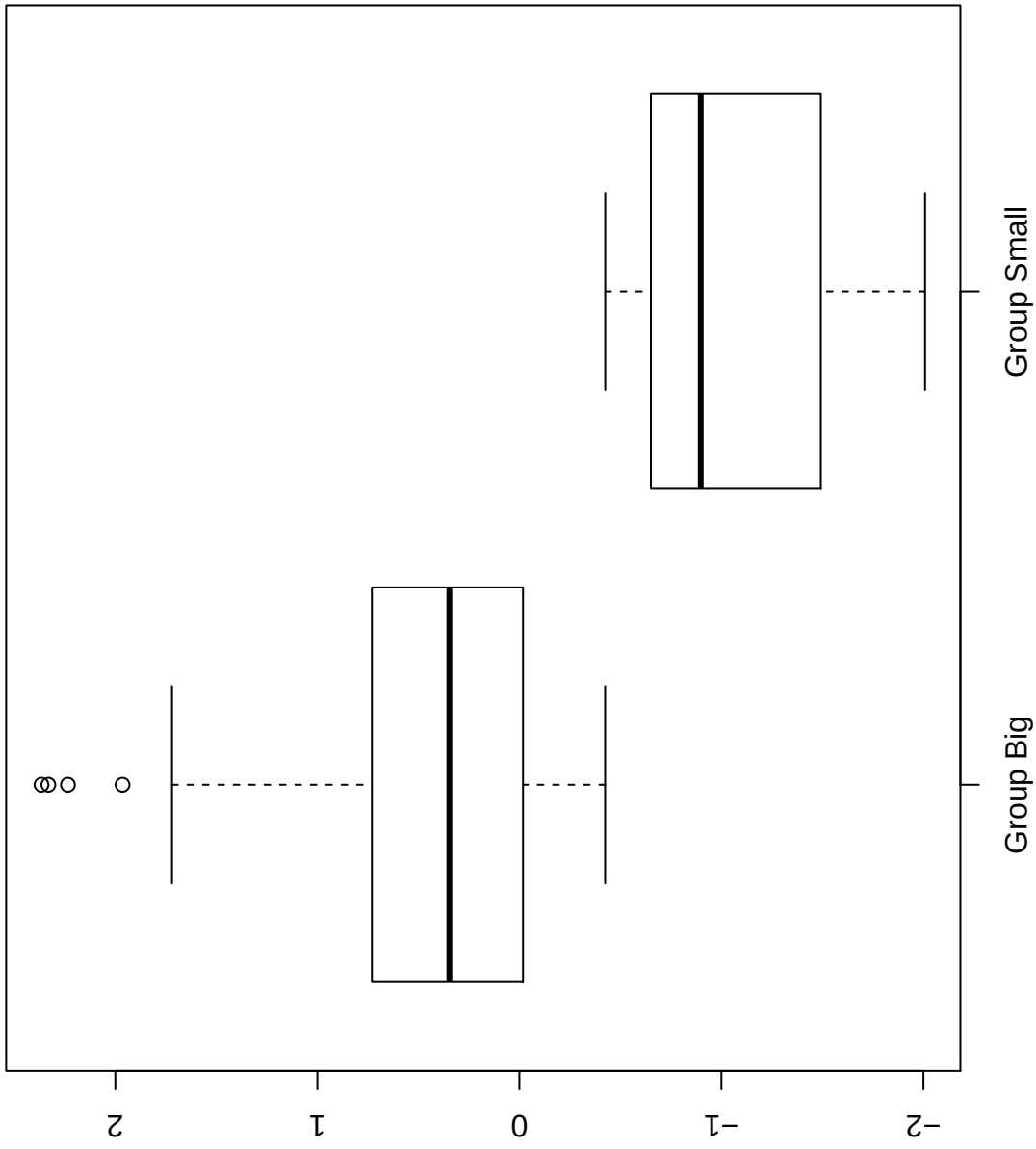

Figure 2: Second figure in landscape format.

```
R version 3.5.0 (2018-04-23)
Platform: x86_64-apple-darwin15.6.0 (64-bit)
Running under: macOS High Sierra 10.13.2

Matrix products: default
BLAS: /Library/Frameworks/R.framework/Versions/3.5/Resources/lib/libRblas.0.dylib
LAPACK: /Library/Frameworks/R.framework/Versions/3.5/Resources/lib/libRlapack.dylib

locale:
[1] de_CH.UTF-8/de_CH.UTF-8/de_CH.UTF-8/C/de_CH.UTF-8/de_CH.UTF-8

attached base packages:
[1] stats     graphics  grDevices utils     datasets  methods   base

other attached packages:
[1] knitcitations_1.0.8 knitr_1.20

loaded via a namespace (and not attached):
 [1] Rcpp_0.12.17     lubridate_1.7.4  digest_0.6.15    rprojroot_1.3-2
 [5] plyr_1.8.4       R6_2.2.2         jsonlite_1.5     backports_1.1.2
 [9] magrittr_1.5     evaluate_0.10.1  highr_0.6        bibtex_0.4.2
[13] httr_1.3.1       stringi_1.2.2    xml2_1.2.0       rmarkdown_1.10
[17] tools_3.5.0      stringr_1.3.1    RefManageR_1.2.0 yaml_2.1.19
[21] compiler_3.5.0   htmltools_0.3.6
```