

Methods in Experimental Ecology II (PCB 6468)

Exercise 1 – Non-linear models



<https://fineartamerica.com/featured/curves-ivan-slosar.html>

Non-linear patterns and responses are widespread in Biology however the analytical methods emphasized in teaching environments concentrate on models with linear responses.

Evaluate the verity of the last sentence.

1. Choose a textbook in biology (ecology, genetics, etc.)
2. Search 50 plots presented throughout the book
3. Tally the number of graphs with linear vs non-linear responses
4. Identify and tally the type of response (linear, parabola, complex curves, other)
5. Identify and tally the variables evaluated
6. Share your data with the rest of the group
7. Gather and consolidate the data collected by all the students
8. Construct a table and a plot summarizing your results
9. Interpret *all the data*