

**Exercise 1 – Non-linear models**  
**Due January 17, 2024**



<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. Enter your results in the group excel document (see course webpage)
7. Construct a table and a plot summarizing *your* results
8. Interpret *all the data*

NOTE: email your submission as a single document (PDF preferred) to Michelle ([Michelle.Bardales@ucf.edu](mailto:Michelle.Bardales@ucf.edu))