## **Evolution of endless fish forms most beautiful**

Representative Manuscript (pdf below as well): Price, S. A., Friedman, S. T., Corn, K. A., Martinez, C. M., Larouche, O., & Wainwright, P. C. (2019). Building a body shape morphospace of teleostean fishes. *Integrative and Comparative Biology*, *59*(3), 716-730.

Abstract: Organismal biology is at the cusp of the big data generation and museum collections are at the heart of this revolution. Using fishes I illustrate how we can generate large trait datasets on museum specimens and use them to improve our understanding of phenotypic evolution, through the integration of undergraduate research and modern technology. I discuss how we can quantify fish shape diversity and body size and highlight the neglected issue of "researcher degrees of freedom" which are the multitude of decisions made when designing, running, analyzing, and reporting results its impact on our conclusions.