



Misty Paig-Tran

Marine Biologist and Comparative Biomechanist

Her research uses a blend of anatomy and engineering techniques to answer biological questions about performance in marine animals. Much of this research stems from observing animals in their natural habitat and then recreating the anatomy in the laboratory.

Research interests include -

Evolution and performance of filter-feeding in marine fishes (sharks and rays).

Function and biomaterials of deep sea fish bones (dragonfish and hatchetfish).

Evolution and development of hyperostosis in marine fishes (oarfishes).

Mechanical performance of bone in tunas and their relatives

Evolution of teeth (denticles) on gill arches and shark reproductive structures.

Building new armor based on fish scales (armored catfish, poachers, polypterids, sygnathids).

Dr. Paig-Tran's Webpage <https://mistypaigtran.jimdo.com/>

Science Friday videos <http://www.sciencefriday.com/videos/no-strain-no-gain-filter-feeding-mantas-2/>

DGN Science Wall of Fame <http://www.csd99.org/dgn/academics/DGN-Science-Wall-of-Fame1.cfm>