DELTA SCIENCE FELLOW 2020
ALEXANDRA MCINTURF

PROJECT

My study will investigate fish swim performance in response to temperature, using salmon and two of its known predators: largemouth bass and Sacramento pikeminnow. I will assess swim performance metrics and predation risk inside and outside the ideal thermal range of each species to determine if a temperature advantage predicts salmon survival in predation scenarios.

TIMELINE

2020-2021 Collect data on largemouth bass and juvenile salmon, swim capacity and burst ability, and undertake predation trials.

2021-2022 Collect data on Sacramento pikeminnow and juvenile salmon. Perform data analysis, manuscript submission, and present results.

IMPACTS

This project's results will provide a mechanistic understanding of how temperature stress may influence mortality risk of juvenile Chinook salmon through predation, which will offer a more holistic perspective on the management of this species.
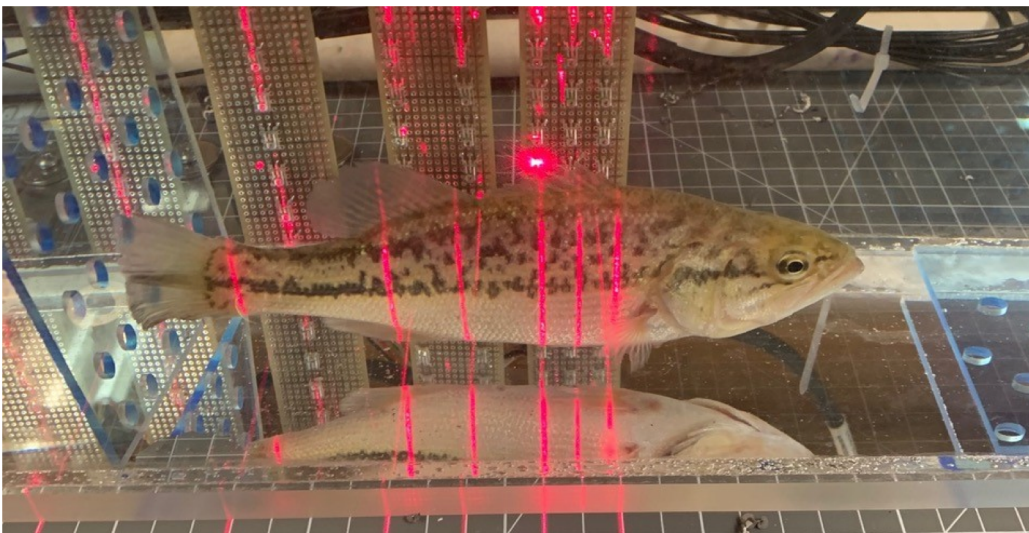
Doctoral Fellow *University of California, Davis*

Focus The effect of temperature on predation of juvenile salmonids

Award $123,868

Research Mentor
Dr. Nann Fangue, *UC Davis*

Community Mentor
Cyril Michel, *NOAA Fisheries/UC Santa Cruz*

"In light of ongoing environmental change, understanding how multiple stressors affect species, communities, and ecosystems is a critical challenge."

DELTA STEWARDSHIP COUNCIL
DELTA SCIENCE PROGRAM

Sea Grant California