



2022 Delta Science Fellows

Jill Harris, PhD
Senior Environmental Scientist
Collaborative Science and Peer Review

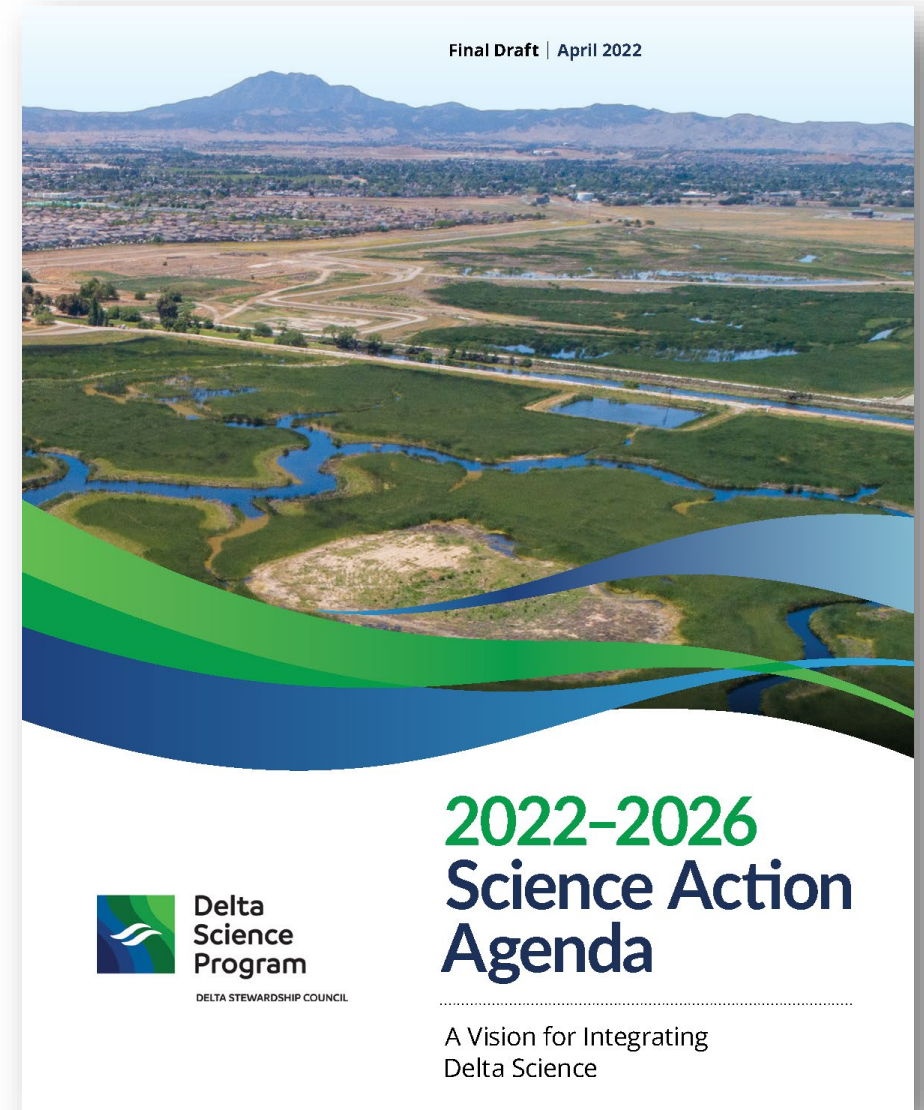


**Delta
Stewardship
Council**

A CALIFORNIA STATE AGENCY

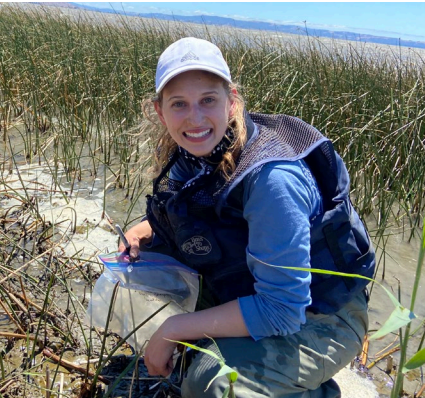
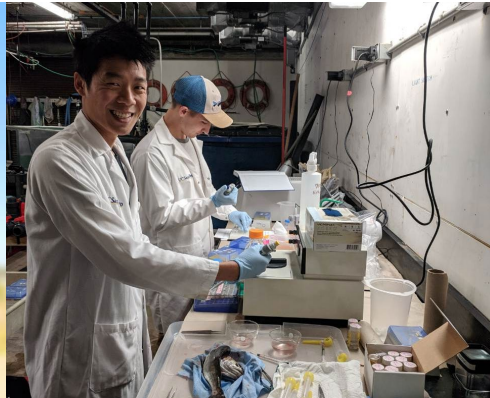
History of the Delta Science Fellowship

- Funding science is part of our mission
- Long-standing partnership with California Sea Grant
- 107 fellows funded since 2003
- Research geared toward Science Action Agenda
- Academic and Community Mentors
- Fellows have strong ties to Delta science community



2022 Delta Science Fellows

- Eight fellows
- Generous support from State Water Contractors
- Competitive process
 - Expert review panels
 - Biophysical and social science

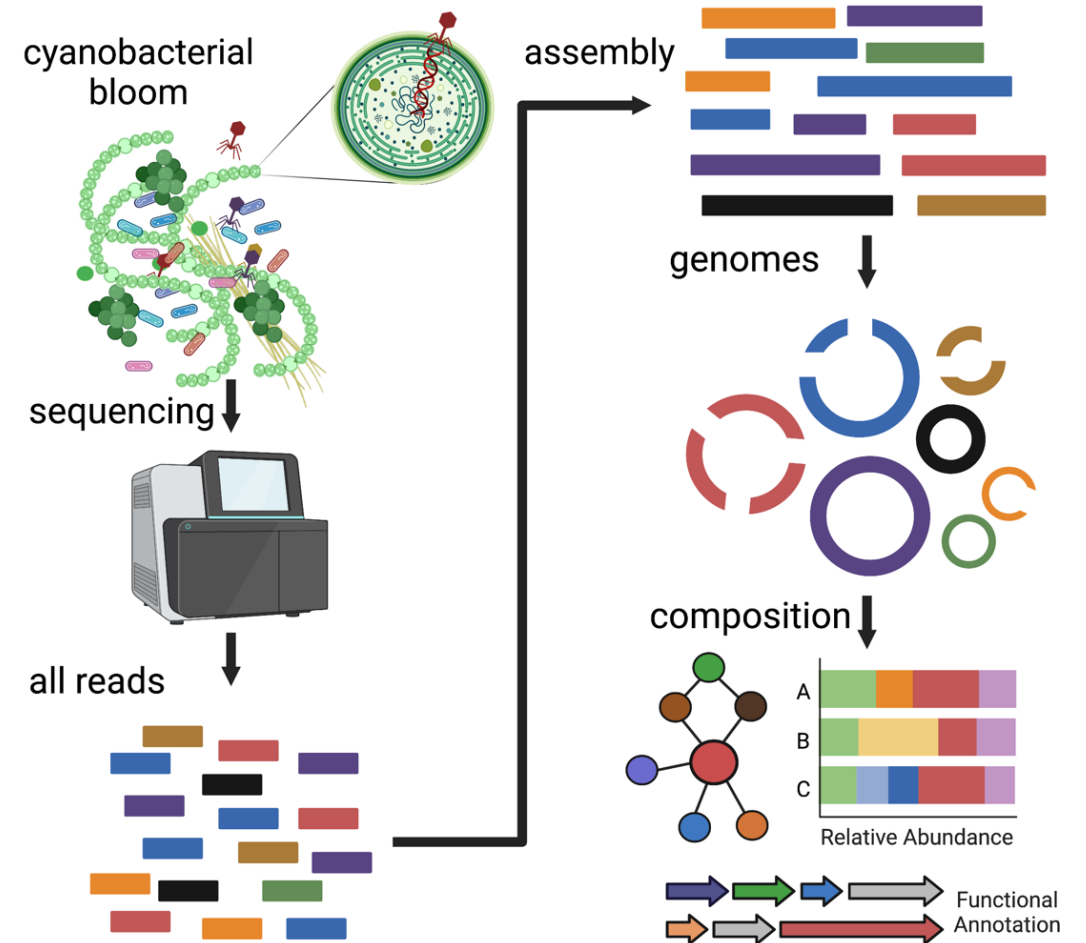




Andreja Kust

UC Berkeley Post-Doc

Identification of Environmental Conditions Driving Cyanobacterial Multi-Species Blooms and Their Toxicity Using Genome Resolved Metagenomics

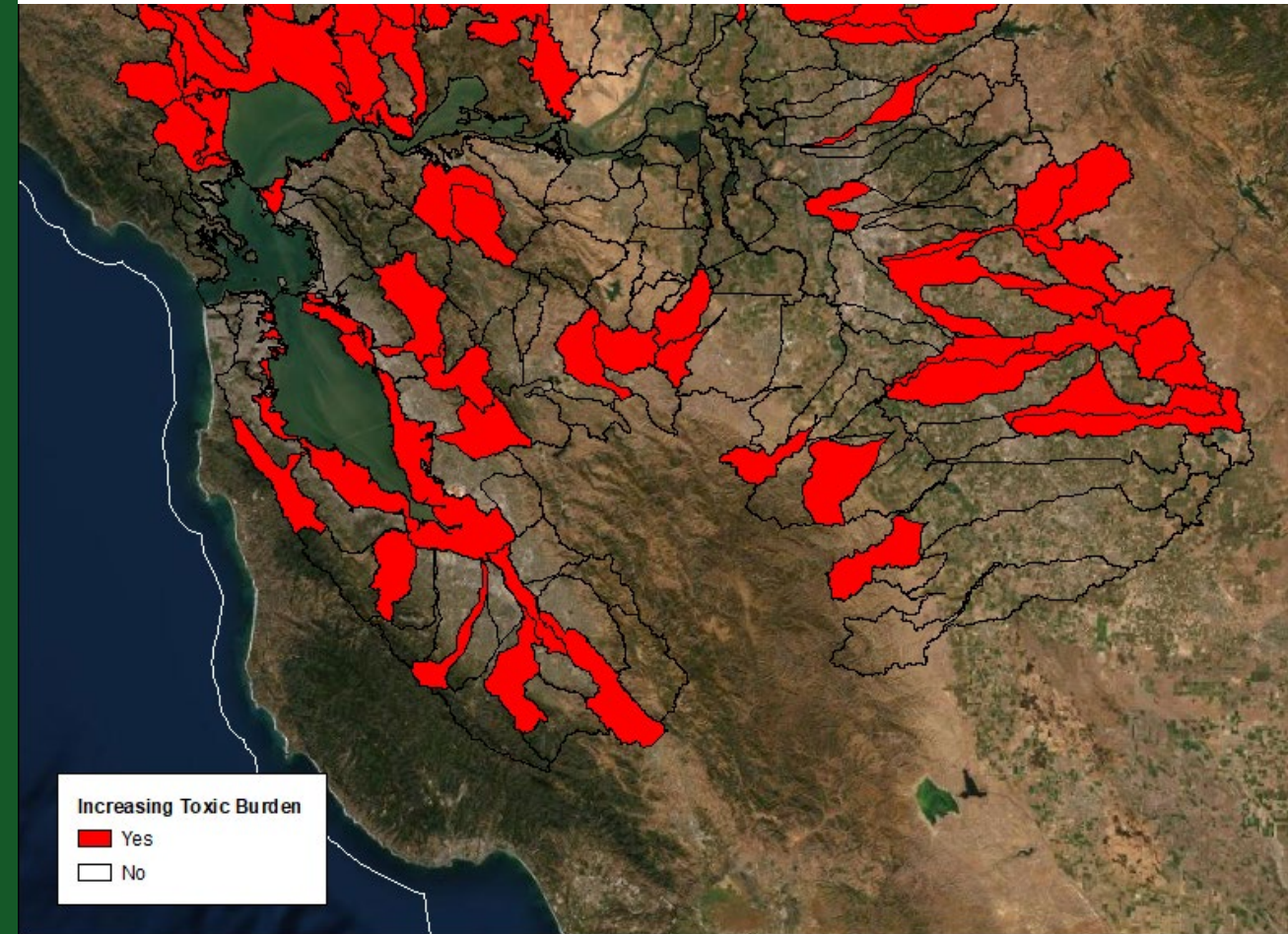




Nicol Parker

UC Berkeley PhD Candidate

Harmonizing Pesticide Risk
Management of the Bay Delta
Watershed



Increasing Toxic Burden
■ Yes
□ No



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km

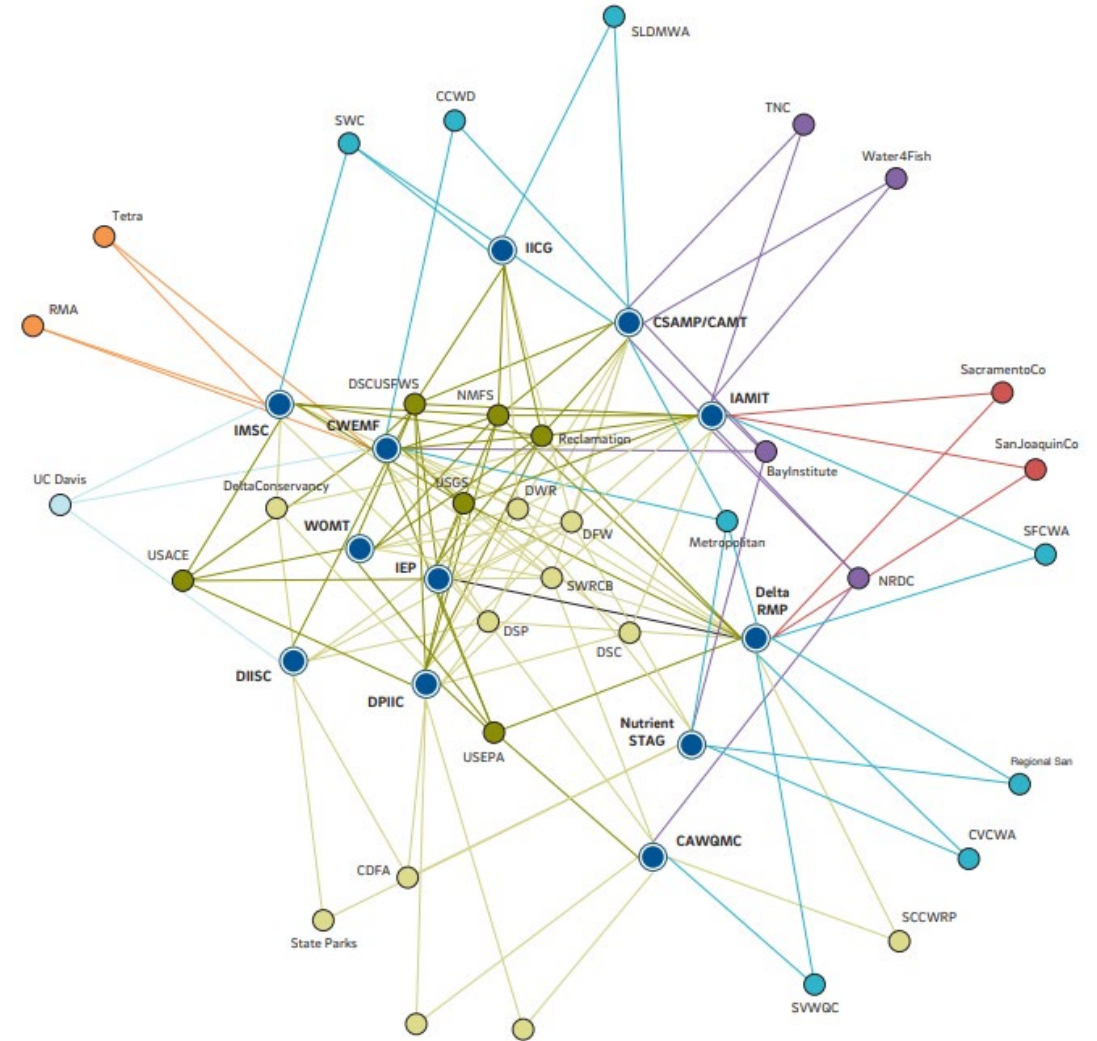
Watersheds Near the Bay Delta



Tara Pozzi

UC Davis PhD Student

Mapping the Adaptation
Governance Network of the Delta





Elsie Carrillo

UC Santa Cruz PhD Candidate

Functional Diversity and
Predator-Prey Dynamics Along
the Sacramento-San Joaquin
River Delta

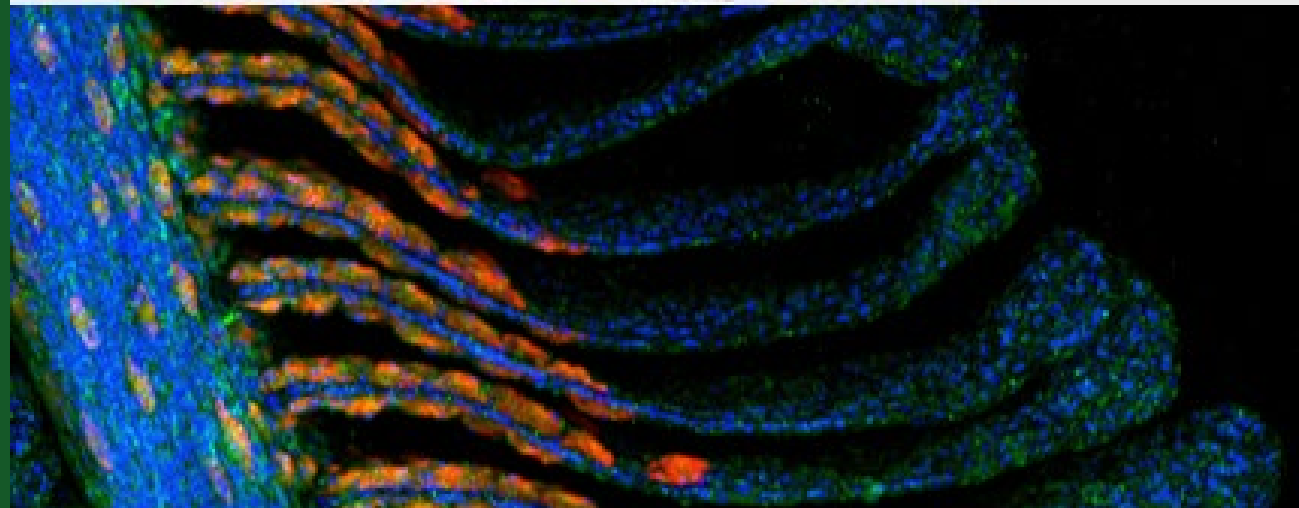
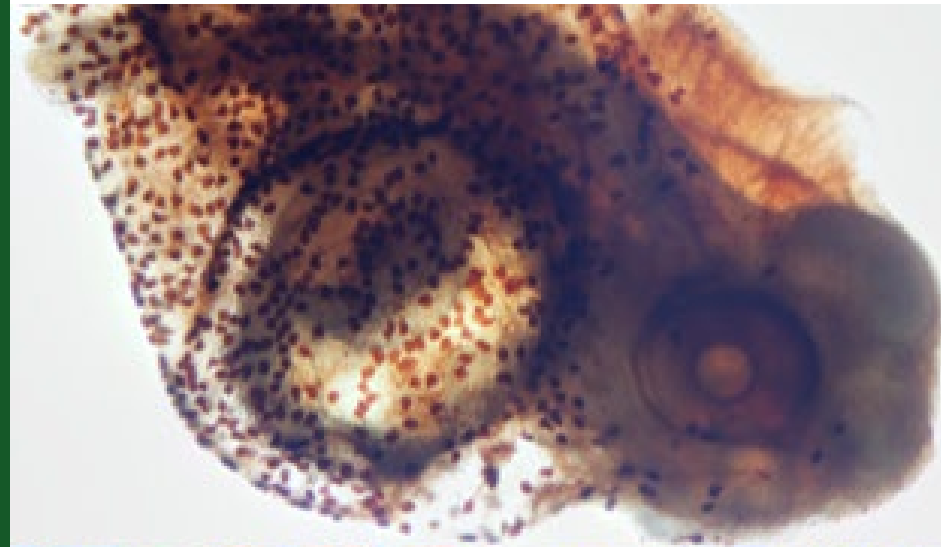




Garfield Kwan

Scripps Institution of
Oceanography Post-Doc

Fish out of Breath: Assessing,
Developing, and Validating
Physiological Bioindicators of
Hypoxia Across the Delta



Maiyah Matsumura

Cal State East Bay Master's Student

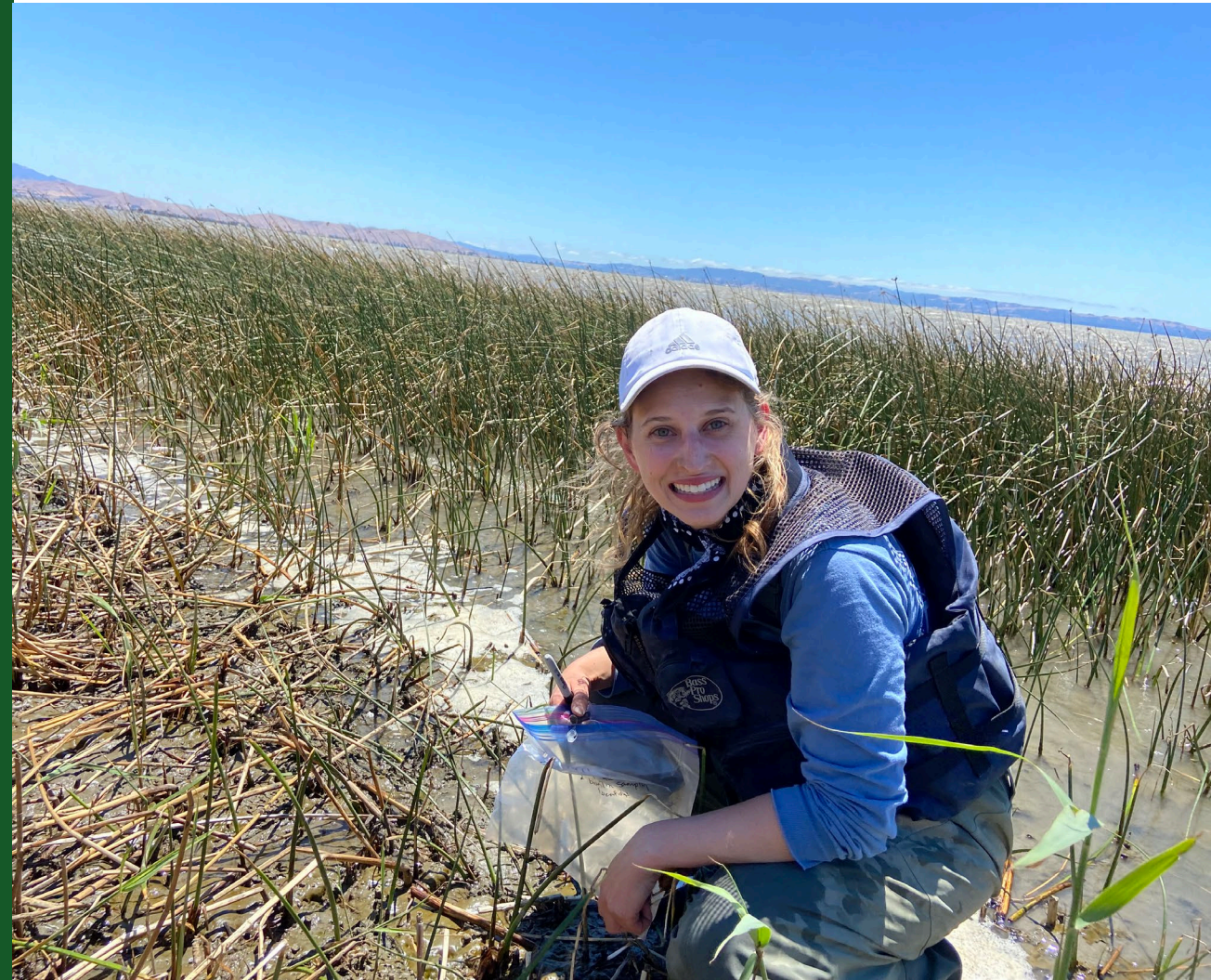
Using High Frequency Flux
Measurements to Constrain
Dissolved Inorganic Carbon in
a Tidal Wetland Carbon Budget



Megan Pagliaro

UC Berkeley PhD Candidate

Restoring Tidal Marsh Food-
Webs: Assessing Restoration
Effects on Trophic Interactions
and Energy Flows in the San
Francisco Bay-Delta



Parsa Saffarinia

UC Berkeley Post-Doc

Examining the Relationship
Between Longfin Smelt,
Zooplankton, and Flow in the
San Francisco Bay Delta



Thank you



Science Action Agenda

- 1: Improve coordination and integration of large-scale experiments, data collection, and evaluation across regions and institutions
- 2: Enhance monitoring and model interoperability, integration, and forecasting
- 3: Expand multi-benefit approaches to managing the Delta as a social-ecological system
- 4: Build and integrate knowledge on social process and behavior of Delta communities and residents to support effective and equitable management
- 5: Acquire new knowledge and synthesize existing knowledge of interaction stressors to support species recovery and ecosystem health
- 6: Assess and anticipate impacts of climate change and extreme events to support successful adaptation strategies

