

## JONATHON (JON) KUNTZ

## CURRICULUM VITAE

4319 Bixby Way, Merced, CA 95348 | (937)869-2559 | jkuntz@ucmerced.edu

### EDUCATION

#### **Current PhD Candidate; Environmental Systems**

**2020 – Present**

University of California, Merced, CA

#### **Bachelor of Science; Biology**

**2012 – 2017**

University of Utah, Salt Lake City, UT

### PUBLICATIONS

- Fichman, R, A Khen, M Willmes, A Scott, **J Kuntz**, J Hobbs, LS Lewis, 2021. The clever strategies fishes use to survive in San Francisco's dynamic estuary. *Frontiers for Young Minds*.

### AWARDS

- \$1,000 - ES Professional Development Fellowship, UC Merced 2022
- \$100,000 - California Sea Grant Research Fellowship, NOAA 2022
- \$1,000 - SIF Pilot Project Grant, UC Davis 2019
- \$750 - Associated Students of the University of Utah tuition award 2017
- \$1,000 - Associated Students of the University of Utah tuition award 2016
- \$1,200 - Undergraduate Research Opportunity Program award, U of Utah 2016
- \$1,000 - Sustainable Campus Initiative Fund small grant, U of Utah 2016
- \$1,000 - Associated Students of the University of Utah Assembly funding 2014
- Dean's List, University of Utah 2013

### PRESENTATIONS

Talk: "Leopard Shark Life History with Novel Application of Stable Isotopes in Eye Lenses"

- American Fisheries Society Cal-Neva Chapter Meeting 2023 Long Beach, CA

Invited Speaker: "Ecological Dynamics of Northern California's Leopard Shark (*Triakis semifasciata*)"

- Sonoma State University Biology dept. seminar series 2022 Sonoma State

Poster: "Enhancing our Understanding of Stable Isotope Analysis in the Eye Lens of Fishes"

- Ecological Society of America 2022 Montreal, CAN

Poster: "Habitat Use and Diet Composition of Leopard Shark in the San Francisco Estuary"

- Western Society of Naturalists 2019 Ensenada, Mex

Poster: "Habitat Use and Diet Composition of Leopard Shark in the San Francisco Estuary"

- The AFS and TWS joint National conference 2019 Reno, Nevada

Invited Speaker: "Stable Isotopic Record of Great Hammerhead Shark Ecology in Series of Teeth"

- The Wildlife Society; Discover Your Niche conference 2019 UC Davis

Invited Speaker: "Isotopic variation in Great Hammerhead Shark teeth"

- Peter Moyle Lab Fish2Fish Meeting 2018 UC Davis

Talk: "Coca Cola: An Isotopic Analysis  $\delta^{13}\text{C}$  and  $\delta^{18}\text{O}$ "

- SIRFER – IsoCamp 2016 Univ of Utah

RESEARCH/EMPLOYMENT HISTORY

University of California, Merced

Merced, CA

**PhD Candidate; PI: Dr. Sora Kim****Aug 2020 – Present**Leopard Shark (*Triakis semifasciata*) Ecology with Novel Applications of Stable Isotope Analysis.

- Bulk  $\delta^{13}\text{C}$  and  $\delta^{15}\text{N}$  (EA-IRMS) in Leopard Shark muscle, teeth, and eye lenses
- CSIA-AA  $\delta^{13}\text{C}$  (GCC-IRMS) in Leopard Shark muscle
- Small vessel captain (hook & line fieldwork)

University of California, Davis

Davis, CA

**Jr Specialist; PI: Dr. James Hobbs and Dr. Levi Lewis****Sept 2018 – August 2020**

Otolith biogeochemistry and fish ecology for protected fishes in the San Francisco Estuary.

- Sr87/Sr86 (Multicollector LA-ICP-MS) in Longfin Smelt (*Spirinchus thaleichtys*) otoliths
- $\delta^{13}\text{C}$ ,  $\delta^{15}\text{N}$ , and  $\delta^{34}\text{S}$  (EA-IRMS) in Chinook Salmon (*Oncorhynchus tshawytscha*) eye lenses
- Generalized additive models in elasmobranch abundance and water quality data
- Small vessel field research conducting fish population surveys (Otter Trawl & 20mm nets)

University of Hawai'i, Hilo

Hilo, HI

**Collaborator; PI: Dr. Tim Grabowski****Apr 2018 – Sept 2018**Otolith aging and growth estimation for Bluestripe Snapper (Ta'ape; *Lutjanus kasmira*).

- Otolith preparation and aging
- Morphometric analyses
- PIT tagging of teleost species

University of Hawai'i, Hilo

Hilo, HI

**Field Technician; PI: Dr. Rebecca Ostertag****Apr 2017 – Sept 2018**

Experimental treatment hybrid communities to restore degraded Hawaiian lowland wet forest.

- Total organic C:N ratios (EA-IRMS) of soils in Hawaiian lowland A'a lava wet forests
- Elevation gradient mapping of forest plots in qGIS
- Native Hawaiian and invasive plant species identification

USDA Forest Service - Institute of Pacific Island Forestry Hilo, HI

**Research Intern; PI: Dr Sahadev Sharma Jun 2017 – Jan 2018**

Estimation of mangrove forest blue carbon storage throughout Southeast Asia and Pacific islands.

- Total organic C:N ratios (EA-IRMS) of soil core samples
- N<sub>2</sub>O gas emissions from soil using static gas chambers
- CH<sub>4</sub>, CO<sub>2</sub>, H<sub>2</sub>O emissions from soil using Los Gatos Research greenhouse gas analyzer

University of Utah

Salt Lake City, UT

**Lab Aide; PI: Dr. Thure Cerling and Dr. Joan Brenner-Coltrain****Sep 2016 – May 2017**Stable Isotope Analysis in series of Great Hammerhead Shark (*Sphyrna mokkaran*) teeth.

- $\delta^{13}\text{C}$  and  $\delta^{15}\text{N}$  (EA-IRMS) in collagen of shark teeth dentin
- $\delta^{13}\text{C}$  and  $\delta^{18}\text{O}$  (Gas Bench) in carbonate of shark teeth enameloid

OUTREACH/LEADERSHIP

University of California, Merced

Merced, CA

**Graduate Dean's Advisory Council on Diversity****2023 – Present**

Oversaw and coordinated all sustainability efforts for the University of Utah's student government. This includes programs like "Recycle Rice-Eccles Stadium" (<http://asuu.utah.edu/recyclericeeccles>); as well as advocating for numerous other endeavors including sustainable transportation options, conservation efforts, etc.

University of California, Merced *CalTeach*

Merced, CA

**Bobcat STEM Summer Academy****Summer 2022**

The University of California, Merced's *CalTeach* program is designed to address the shortage of STEM teachers in the Central Valley's underserved elementary, middle, and secondary school systems. Through this program I helped teach a two week summer course, "Shark Survivor," for middle schoolers on shark ecology, paleoecology, and ocean chemistry.

University of Hawai'i, Hilo

Hilo, HI

**Ka 'Umeke Ka'eo Hawaiian immersion charter school****2017 – 2018**

Lead and organized field and classroom lessons with Ka 'Umeke Ka'eo elementary school students to create a project on native and culturally important plant ecology, with the students presented their findings entirely in their native Hawaiian language.

Associated Students of the University of Utah

Salt Lake City, UT

**Associate Director of Sustainability****2016 – 2017**

Oversaw and coordinated all sustainability efforts for the University of Utah's student government. This includes programs like "Recycle Rice-Eccles Stadium" (<http://asuu.utah.edu/recyclericeeccles>); as well as advocating for numerous other endeavors including sustainable transportation options, conservation efforts, etc.

International Student Council – University of Utah

Salt Lake City, UT

**Elected President****2014 – 2016**

Worked with 3,000 international students a year, creating events to promote inclusion for students attending the university from around the world. Our efforts focused on communication, studies, and social experiences for all International Students at the University of Utah.

CERTIFIED SKILLS

- Motorboat Operator Training Course, University of California Davis 2022
- Open Water Scuba Diver, Scuba Diving International (SDI) 2017
- SIRFER IsoCamp, University of Utah, Salt Lake City, Utah 2016

MEMBERSHIPS

American Fisheries Society – Cal Neva subunit