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# EDUCATION

Anticipated 2024 - University of California Riverside, Current M.Sc. Student in Entomology. Proposed Thesis*, Indigenous and Prescribed Burning Potential for Management of Agrilus auroguttatus (Goldspotted Oak Borer).*

12/2019 - California Baptist University – Riverside, B.S. Biology, *Cum Laude*

6/2008 - Palomar Community College - San Marcos, California, A.A Computer Science Information Systems

# WORK EXPERIENCE

10/08/2019 to present, Natural Resources Program Director, La Jolla Band of Luiseño Indians, Pauma Valley, California.

**Built a new natural resource program and now lead a 12-person team***.* I started as a volunteer Intern and worked to secure funding to implement a Tribal Natural Resources Program. I have drafted a Forest Management, Prescribed Burn Plan, Goldspotted Oak Borer (GSOB) Tree Mortality Mitigation Plan, and eight contracts. I have written seventeen grant proposals (won thirteen), five biological assessments, a historic preservation plan, and an inadvertent discovery plan for cultural resources discoveries during ground disturbance based projects. In completing National Environmental Policy Act compliance, I consulted with the Bureau of Indian Affairs, California State Historic Preservation Office, U.S. Fish and Wildlife, National Park Service, and the Environmental Protection Agency.

9/2020 to present, Graduate Researcher – Entomology Department, University of California, Riverside.

**Finding ways to preserve California’s oak woodlands** by researching the potential for saving oak trees from the goldspotted oak borer with prescribed fire. I designed the research plan, obtained funding, conducted experiments, and collaborated with the La Jolla Band of Luiseño Indians, the U.S. Forest Service, CAL FIRE, and Oregon State University.

5/2019 to 9/2019 – Agriculture Inspector California Department of Food and Agriculture, Spring Valley, California.

**Identified potential insects that needed emergency mitigation.** Located, deployed, and inspected traps for the presence of invasive insects and submitted insect samples for analysis.

# GRANTS/INTERNSHIPS

*Journey to Balanced Forest Health through Cultural Fire on the La Jolla Indian Reservation,* CAL FIRE Tribal Wildfire Resilience Grant, GSOB mitigation, research, and wildfire resilience, $2,500,000 (2023).

*Tribal Climate Adaptation Strategies: Cultural Burn Study*, SDSU Community outreach and coordination on wildland fire and climate change impacts, cultural burn site preparation and cultural burn research and outreach, $220,000 (2023)

*Tribal Climate Adaptation Strategies: Forestry Forever-Bringing Balance Back to the Land,* UC Irvine Community outreach and coordination on wildland fire and climate change impacts, $250,000 (2023)

*Portable Milling Infrastructure Grant*, Bureau of Indian Affairs, provides equipment funding for a firewood kiln and portable milling infrastructure to utilize salvage wood, $250,000 (2023).

*La Jolla Band of Luiseno Indians* Kiicha *Heritage Immersion Tour Camping Experience*, American Indian Alaska Native Tourism Association, provides funding for a campfire center, interpretive nature trail, visitor facilities, and ten cabins with standard campground amenities to reduce impacts due to overuse of forested areas, $250,000 (2023).

*Inter-institutional Network for Food Agriculture & Sustainability Fellowship Cohort*, Intertribal Agriculture Council, supports personal and professional development to produce a videography of my research journey,

$5,000 (2022).

*Returning Fire to the Land,* Watershed Research and Training Center provides for wildland firefighter training coordination, community meetings, and management plan development, $50,000 (2022)

*Indigenous Cultural and Prescribed Burning for Goldspotted Oak Borer Landscape Level Management*, USDA Forest Service Special Technology Development Grant to test the efficacy of Cultural Burning for Goldspotted Oak Borer Management, $28,000 (2022-2023).

*Indigenous Burning, Prescribed Fire, and Goldspotted Oak Borer Management*, CAL FIRE Forest Health Research Grant, to study Prescribed Burning based on Cultural Burning as a potential landscape-level management tool, $100,000 (2022-2024).

*Goldspotted Oak Borer Management Regional Forest and Fire Capacity Program Block Grant*, California Department of Conservation Grant for Land Management Conservation Capacity Building and GSOB management on the La Indian Reservation, Awarded, $390,000 (2022).

*Goldspotted Oak Borer Heat Treatment*, Advancing Agricultural Science Opportunities for Native Americans, Research grant, $5000 (2021, 2022)

*GSOB Tribal Fire Department Hazardous Tree Removal (La Jolla Reservation)*- Bureau of Indian Affairs and USDA Forest Service, Grant for GSOB mitigation and removal of 85 oak trees, La Jolla Indian Reservation,

$85,000 (2020).

*Volunteer Internship,* Orange County Health Care Agency, Environmental Health Division, Hazardous Waste Surveillance Sector, provided content, design, and revisions for public outreach documentation on hazardous waste compliance and body art, Anaheim, California (2018).

# PRESENTATIONS/PUBLICATIONS

*Building a Tree Pest Program: A Hands-on workshop*, 2023 Tribal EPA Region 9 Annual Conference, 45-minute group presentation (10/24/2023).

*Indigenous Burning Prescribed Fire, and Goldspotted Oak Borer Management Potential*, Institute for Tribal Environmental Professionals, Santa Cruz Arboretum, 20-minute presentation, 35 attendees (9/28/2023).

*GSOB management and research*, SoCal Oak Woodlands Forest Gathering on the La Jolla Indian Campground, 4 (15-minute) presentations 75 attendees (9/17/2023 through 9/19/2023).

*Indigenous Burning, Prescribed Fire, and Goldspotted Oak Borer Management*, CALFIRE Forest Health Research Program Grantee Webinar, 91 attendee, 50-minute presentation (8/28/2023).

*Forest Management and GSOB on the Reservation*, La Jolla Reservation Community Meeting, La Jolla Natural Resources Department, 45 attendee, 60-minute presentation (8/17/2023).

*Goldspotted Oak Borer Research Update: Heat Treatment & Pile Burning,* Southern California Forest Pest Council Meeting, 75 attendees, 10-minute presentation (8/16/2023).

*Lessons Learned from Goldspotted Oak Borer integrated Pest Management*, California Pest Control Advisor Spring Summit, Continuing Education Credits for CA Department of Pesticide Regulation, 200 attendees (4/26/2023).

*AISES Indigenous Food & Agriculture Webinar: Guest Speaker Panel for student success*, American Indian Science and Engineering Society Webinar, 1 hour panel presentation, 20 attendees (4/20/2023).

*Goldspotted Oak Borer Management on Tribal Lands*, Natural Resource Conservation Service: Tribal Advisory Committee Meeting, 15-minute Presentation, 40 attendees (4/6/2023).

*History and challenges of biocontrol efforts for Agrilus auroguttatus (Goldspotted Oak Borer) in California*, Pacific Branch Entomology Society of America Symposium: Classical Biological Control of Invasive Pests Infesting Agricultural & Forest Ecosystems, 15-minute presentation, 40 attendees (4/04/2023).

*Indigenous and prescribed fire as a potential management tool for goldspotted oak borer*, Collaborative Indigenous Stewardship for Resilient Restoration and Climate Adaptation, International Association for Landscape Ecology Annual Conference, 120-minute panel discussion, 45 attendees (3/20/2023).

*Summary of La Jolla Cultural Burning Demonstration & Awareness Workshop* (recap of goldspotted oak borer-based research), Rekindling Fire and Culture, California Indians Basketweavers’ Association Meeting, 15-minute presentation 65 attendees, (2/11/2023).

*Cultural Burning and Goldspotted Oak Borer Management and Research*, Cultural Burning Awareness Day hosted Climate Science Alliance & the La Jolla Band of Indians, 60-minute presentation, 95 attendees (1/17/2023).

*Heat Treatment for Goldspotted Oak Borer Infested Oak Firewood,* Intertribal Agriculture Council Conference Las Vegas, poster presentation, 25 attendees, (12/6/2022).

*Goldspotted Oak Borer Impacts on Oak Woodlands*, Climate Science Alliance Plant Propagation Training, La Jolla Indian Reservation, presentation, 40 attendees (9/28/2022).

*Forest Management Planning and Natural Resource Program on the La Jolla Indian Reservation*, La Jolla Indian Community Meeting for Natural Resource, Cultural Resources, and Prescribed Fire, presentation 68 attendees, (8/27/2022).

*Goldspotted Oak Borer Research and Management*, La Jolla Band of Luiseño Indians – Wildland Fire Fighter Training Class, presentation, 35 attendees, (2/17/2022).

*Goldspotted Oak Borer Research and Management*, Bureau of Indian Affairs, Pacific Regional Office Annual

Natural Resources and Fire Conference, online presentation, 75 attendees, (2/10/2022).

*Oak Tree Preservation Panel (Spoke about Goldspotted Oak Borer and Research in Indian Country), Native American Heritage Month,* Rincon Indian Reservation, 50 attendees, (11/13/2021).

*Indigenous and Prescribed Fire for Management of Goldspotted Oak Borer,* University of California Riverside Department of Entomology ENTM250 Series Webinar, student presentation (10/05/2021), 50 attendees.

*Indigenous and Prescribed Fire for Management of Goldspotted Oak Borer*, American Indian Science and Engineering Society National Conference Phoenix, student presentation, 25 attendees, (9/25/2021).

*Indigenous and Prescribed Fire for Management of Goldspotted Oak Borer*, Pala Band of Mission Indians Riparian Management Online Workshop, presentation, 60 attendees, (8/25/2021).

*Indigenous and Prescribed Fire for Management of Goldspotted Oak Borer*, Indigenous Intertribal Stewardship Project Quarterly Meeting, online presentation, 70 attendees, (6/22/2021).

*Indigenous and Prescribed Fire for Management of Goldspotted Oak Borer*, Intertribal Timber Council Annual Symposium, online presentation, 50 attendees, (5/17/2021).

*Goldspotted Oak Borer Management Concerns and How to Survey Trees,* the University of California Agriculture and Natural Resources Tribal Working Group, 20 attendees, online presentation (5/07/2021).

*Indigenous and Prescribed Fire for Management of Goldspotted Oak Borer*, California Baptist University Natural Medical Sciences Symposium, 40 attendees, online presentation (3/26/2021).

*Prescribed burn requirements for Southern California Indian Reservation*, Climate Science Alliance Tribal Working Group, featured speaker online presentation, 35 attendees, (3/21/2021).

*Tribal perspectives for multiagency collaboration on the Palomar Mountain CAL FIRE CCI Forest Health Grant*, George Wright Society Fire Management 24/7/365 Workshop, 50 attendees, (02/15/2021).

*Indigenous and Prescribed Fire for Management of Goldspotted Oak Borer,* American Indian Science, and Engineering Society, student research presentation, 15 attendees, (10/15/2020).

*Body Art Basics,* End-user handbook for state laws on tattoos and blood-borne pathogens (updated existing document) https://[www.ochealthinfo.com/civicax/filebank/blobdload.aspx?BlobID=86107](http://www.ochealthinfo.com/civicax/filebank/blobdload.aspx?BlobID=86107) (2018).

*Oaks and Conifers of Palomar Mountain State Park*, Tree identification brochure for park visitors (2010).

# HONORS AND AWARDS

Smith Award, UC Riverside Entomology (2023).

Climate Hero Award, Climate Science Alliance (2023).

Advancing Ag Opportunities for Native Americans Scholarship (2018-2022).

Cobell Leadership Scholarship (2019-2020).

Squaxin Island Tribal Education Scholarship (2017-2021).

California Baptist University Award for Excellence in Environmental Science Research (2019).

# MEMBERSHIPS

Chair Elect Southern California Forest Pest Committee 2023-2024.

Member International Organization for Biological Control Entomological Society of America.

Member Entomology Society of America.

Member American Indian Science and Engineering Society.

# OUTREACH & SERVICE

*SoCal Wildland Fire Training Cadre* (2021-2023 monthly meeting cohost) 12-20 attendees, 30 hours total.

*Southern California Oak Woodlands Forest Gathering*, cohost and planner in partnership with the Water Solutions Network with funding from CA Department of Conservation and the USDA Forest Service, 100 attendees, (9-17-23).

*La Jolla Reservation Community Meeting on Fire and Forestry*, cohost and planner, 45 attendees, (8-17-23).

*Intertribal Earth Day 2023*, La Jolla Indian Reservation, staffed Natural Resources and GSOB Mitigation outreach booth 6 hours, 500 attendees.

*Riverside Insect Fair 2022-2023,* Staffed Hoddle Lab booth for GSOB outreach 6 hours, 600 attendees.

*Cultural Burning Awareness,* cohost and planner, La Jolla Indian Reservation in partnership with the Climate Science Alliance, funded by CAL FIRE, 95 attendees, (1-17-23).

*La Jolla Reservation Meeting on Culture, Fire, and Forestry*, cohost and planner, 68 attendees, (9-17-22).

*American Chemical Society*, staffed youth outreach booth (2019, 2020), AISES Conference Pechanga, Latino Science Community, San Diego Convention Center.

#  CERTIFICATIONS

AHA Heartsaver First Aid, AED & Blood Born Pathogen Certification (12/2022)

Firefighter Type 2 (Crewmember), National Wildfire Coordinating Group Certificate