

EDUCATION

University of California, Los Angeles	<i>In Progress</i>
Ph.D. in Ecology and Evolutionary Biology	
University of California, Los Angeles	June 2016
B.S. in Environmental Science with College Honors, Minors in Conservation Biology and Musicology	
GPA: 3.57	
Departmental Honors Thesis: Characterizing the Diets of Big Brown Bats (<i>Eptesicus fuscus</i>)	

RESEARCH EXPERIENCE

Project Manager, UCLA Post-fire Recovery Research Program	Jan. 2019 - present
<ul style="list-style-type: none"> Lead team of 97 undergraduate students to collect and analyze vegetation plots; coordinate with partners from UCLA, NPS, USGS, and CSUN to develop curriculum, participant surveys, and research proposals and permits 	
Field Technician; California Sea Otter Recovery Project, San Nicholas Island	Feb. 2018; Jan. 2019; Jan. 2020
<ul style="list-style-type: none"> Assisted in determination of black abalone (<i>H. cracherodii</i>) abundance and distribution using SWATH survey methods 	
Field Technician, Dr. Patricia Brown Biological Consulting	Aug. 2016
<ul style="list-style-type: none"> Determined habitat use of Townsend's big-eared bat using VHF radio telemetry and mist netting 	
Field Technician, Santa Monica Bay Restoration Foundation	Sept. 2015 – Jun. 2016
<ul style="list-style-type: none"> Evaluated intertidal community trophic structure and change in abiotic variables during ENSO; Identified marine macroalgae and invertebrates to species using universal point count and swath methods 	
Lab Technician, Laboratory of Robert Wayne, UCLA	Sept. 2014 – Jun. 2016
<ul style="list-style-type: none"> Characterized bat (<i>E. fuscus</i>) diet and wolf and marmot parasitic diversity using Sanger Sequencing Presented at UCLA Undergraduate and UCLA Ecology and Evolutionary Biology poster sessions (2015) 	
Field Technician, Laboratories of Robert Wayne and Debra Shier, UCLA	Jun. 2015 – Jul. 2015
<ul style="list-style-type: none"> Trapped bats (<i>E. fuscus</i>) using mist nets, collected tissue samples, and tracked using VHF Radio Telemetry Processed and collected data on small mammals (<i>Heteromyidae</i>) using Sherman Live Traps and IR cameras 	
UCLA Department of Ecology and Evolutionary Biology	Jan. 2015 – Mar. 2015
Field Biology Quarter in Refugio Bartola, Nicaragua	
<ul style="list-style-type: none"> Recorded behavioral data on orchid bee (<i>Euglossini</i>) resource partitioning Evaluated the impact of selective logging on aquatic invertebrate nymph diversity within ephemeral pools 	

PUBLICATIONS

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- Curti, J., Fergus, E., and De Palma-Dow, A. State of the ART: Using Artificial Refuge Traps to Control Invasive Crayfish in Southern California Streams. (*In Preparation*).
- De Palma-Dow, Angela, and Curti, Joseph. (2020) It's a Trap! An Evaluation of Different Passive Trap Types to Effectively Catch and Control the Invasive Red Swamp Crayfish (*Procambarus Clarkii*) in Streams of the Santa Monica Mountains. *Management of Biological Invasions*, 11(1), 44–62. <https://doi.org/10.3391/mbi.2020.11.1.04>
- Sastre N, Francino O, Curti JN, Armenta TC, Fraser DL, et al. (2016) Detection, Prevalence and Phylogenetic Relationships of Demodex spp and further Skin Prostigmata Mites (Acari, Arachnida) in Wild and Domestic Mammals. *PLoS ONE* 11(11): e0165765. doi: 10.1371/journal.pone.0165765

PRESENTATIONS

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- Curti, Joseph (2020) "Bats of the Santa Monica Mountains: Ecology, Research Methods, and Conservation". Oral presentation for the **San Fernando Valley Audubon**. Los Angeles, CA.
- Curti, Joseph. (2020) "Student Post-fire Plant Monitoring Following the 2019 Woolsey Fire". Oral Presentation for **National Park Service Science Days**. Calabasas, CA.
- Curti, Joseph, De Palma-Dow, Angela, and Fergus, Emi (2019) "It's a Trap! An Evaluation of Different Passive Trap Types to Effectively Catch and Control the Invasive Red Swamp Crayfish (*Procambarus Clarkii*) in Streams of the Santa Monica Mountains". Poster presented for the **66th Annual Meeting of the Western Section of The Wildlife Society**. Yosemite National Park, CA.
- Curti, Joseph and Toneva, Denita (2016) "Rocky Intertidal Ecology in Response to Purple Sea Urchin Population Collapse". Poster presented for **UCLA Undergraduate Research Poster Day**. Los Angeles, CA.

PRESENTATIONS CONT.

- Curti, Joseph (2016) "Designing molecular tools for the characterization of bat diet". Oral presentation for **UCLA Environmental Science departmental honors committee** and public. Los Angeles, CA
- Curti, Joseph and Lee, Michelle (2014) "Effect of Selective Logging of Bromeliad Phytotelma Communities". Poster presented for **UCLA Department of Ecology and Evolutionary Biology Annual Research Symposium**. Los Angeles, CA.

PEER REVIEW

- Ad-Hoc Journal Reviewer, **Molecular Ecology** Oct. 2020
- Ad-Hoc Journal Reviewer, **Hydrobiologia** Oct. 2019

GRANTS, SCHOLARSHIPS, & AWARDS

- **California Conservation Genetics Project: \$41,500** Sep. 2020
Project: "Landscape Genetics, Climate Vulnerability, and Historical Demography of the Yuma Bat in California"
- **American Pheasant and Waterfowl Society: \$500** Aug. 2020
Santa Monica Audubon: \$500 Aug. 2020
San Fernando Valley Audubon: \$1,000 Jul. 2020
Project: "Assessing Barriers to California Quail (*Callipepla californica*) Gene Flow in the Santa Monica Mountains"
- **National Park Service, Research Learning Center: \$8,000** Feb. 2020
Project: "Assessing the Population Dynamics of California Red-legged Frogs to Inform Long-term Conservation Efforts in the Santa Monica Mountains"
- **The Green Initiative Fund: \$975** Jan. 2020
Project: "Bruin Birders Flock Together"
- **Boeing Community Engagement: \$75,000** Jul. 2019
Project: "Seed to Restoration Nursery Program"
- **California Fire Safe Council: \$10,906** Jun. 2019
Project: "Fire-wise Native Plant Sale Following the Woolsey Fire"
- **Metropolitan Water District of Southern California: \$2,000** Nov. 2018
Project: "Water Quality Monitoring in Crayfish Streams in the Santa Monica Mountains"
- **United States Fish and Wildlife Service: \$77,866** Oct. 2018
Project: "Invasive crayfish removal from California red-legged frog (*Rana draytonii*) streams in the Malibu Creek watershed"
- **North Face Explore Fund: \$6,000** Jun. 2018
Project: "Stream Stewards for Clean Creeks"
- **Metropolitan Water District of Southern California: \$2,000** Dec. 2017
Project: "Bring Back the Streams Program"
- **Glickfeld Family Scholarship: \$1,000** Dec. 2014
- **Holmes O. Miller Award: \$1,000** Oct. 2014

PROFESSIONAL EXPERIENCE

- Research Technician, National Park Service Santa Monica Mountains** Dec. 2017 – Sep. 2019
- Implement North American Bat Monitoring Protocol in SMMNRA; develop guiding documents and SOPs for field technicians; determine ecologically significant sites for long term inventory and monitoring of bats; Developed proficiency for acoustic keying to species of western bats
- Grants and Science Administrator, Mountains Restoration Trust** Sep. 2016 – Sep. 2019
- Supervise team of eight field technicians in removal of aquatic invasive species through implementation of field work, mechanical trapping, database management, data QA/QC, and report writing; coordinate with multiple agency partners and granting agencies for research collaborations, billing and invoicing, and permitting; planned and implemented over 50 volunteer events for children ages 12+ and adults; Managed social media presence through multiple platforms; Solicited a total of \$39,000 in donations used for research and programming; Authored successful scientific grants for a total of \$87,866 in new funding; Co-designed and implemented a scientific study on trapping methods for aquatic invasive species that was accepted for publication by a major journal

PROFESSIONAL EXPERIENCE CONT.

- Lab Manager, Laboratory of Robert Wayne, UCLA** Jun. 2016 – Oct. 2016
- Maintained wolf keratinocyte cell lines through media preparation, subculturing, and cryopreserving; Assisted in microsatellite genotyping of mule deer populations in Los Angeles County; Properly disposed of hazardous waste and chemicals; Sourced and purchased laboratory disposables, chemical reagents, and machinery

TEACHING EXPERIENCE

- Teaching Assistant, UCLA Ecology and Evolutionary Biology Department** Spring 2020 - present
- Class(es): EEB 154 (California Ecosystems), EEB 116 (Conservation Biology), EEB 183 (Ecological Solutions)
- Teaching Assistant, UCLA Institute of the Environment and Sustainability** Sep. 2015 – Dec. 2015
- Organized ten-week speaker series on topics in environmental science; lead discussions for 109 students

PROFESSIONAL AFFILIATIONS

- Member, The Herpetologists League
- Member, Society for the Study of Amphibians and Reptiles
- Member, Society for Conservation Biology
- Member, The Wildlife Society
- Member, North American Society for Bat Research
- Member, Western Bat Working Group
- Member, Southern California Bat Working Group
- Member, National Society for Collegiate Scholars
- Member, Alpha Lambda Delta & Phi Eta Sigma National Honors Society

PROFESSIONAL DEVELOPMENT

- UCLA IDRE Workshops: “NGS Library Prep”, “Into to Unix” Nov. 2019; Apr. 2020
- Software Carpentry: Coding in R Workshop Jan. 2020
- CA/NV Amphibian Population Task Force Conference Jan. 2020
- Spring Breeding Bird Identification Workshop, Western Foundation of Vertebrate Zoology Apr. 2019
- The Wildlife Society Conference Feb. 2019
- Field Identification of Invasive Shot-hole Borer Beetles Workshop, UCANR Dec. 2018
- Bat Survey Basics: Combined Survey Techniques Workshop, National Park Service Sep. 2018
- Southwestern Desert Bats Workshop, Maturango Museum Apr. 2018
- Western Bat Working Group Annual Meeting, The Wildlife Society Feb. 2018
- Acoustic Data Management Workshop, National Park Service Dec. 2017
- North American Society for Bat Research Conference Oct. 2017

SERVICE

- Member, qSTEM at UCLA** Nov. 2020 – Present
- Lead informal mentorship sessions for queer-identifying UCLA undergraduate students in STEM majors
- Vice President, Bruin Audubon Society and Birding Club** Sep. 2019 – Present
- Assist in weekly bird walks on the UCLA campus; Contribute to increased access and inclusivity of club through targeting weekly promotion and advertising; Generate club revenue through grant applications and cultivation
- Vice President of the Board, Gay Freedom Band of Los Angeles** Dec. 2017 – Present
- Direct marketing and promotion for 60-member, multi-national LGBT organization; Assist in preparation of organization strategic planning, financial, and policy documents; Plan and execute artistic concert programming
- Director of Education, AIDs Ambassadors UCLA** Apr. 2014 – Jun. 2016
- Educated middle school and high school students on HIV transmission, prevention, and stigma as well as safe sex practices
- Docent, Volunteer Gardener, UCLA Mildred E. Mathias Botanical Garden** Apr. 2014 – Jun. 2016
- Led garden tours and assisted in propagation and maintenance of garden collection using hand tools
- Board Member; Bruin Naturalist Club, UCLA** Jan. 2015 – Jun. 2016
- Organized and lead biological surveys on UC Natural Reserve land focusing on flora and fauna of the Santa Monica Mountains