

**EDUCATION**


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| 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**


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| <b>Project Manager, UCLA Post-fire Recovery Research Program</b>  | Jan. 2019 - present             |
| <ul style="list-style-type: none"> <li>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</li> </ul>                |                                 |
| <b>Field Technician; California Sea Otter Recovery Project, San Nicholas Island</b>   | Feb. 2018; Jan. 2019; Jan. 2020 |
| <ul style="list-style-type: none"> <li>Assisted in determination of black abalone (<i>H. cracherodii</i>) abundance and distribution using SWATH survey methods</li> </ul>  |                                 |
| <b>Field Technician, Dr. Patricia Brown Biological Consulting</b>   | Aug. 2016                       |
| <ul style="list-style-type: none"> <li>Determined habitat use of Townsend's big-eared bat using VHF radio telemetry and mist netting</li> </ul>   |                                 |
| <b>Field Technician, Santa Monica Bay Restoration Foundation</b>  | Sept. 2015 – Jun. 2016          |
| <ul style="list-style-type: none"> <li>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</li> </ul>                                 |                                 |
| <b>Lab Technician, Laboratory of Robert Wayne, UCLA</b>   | Sept. 2014 – Jun. 2016          |
| <ul style="list-style-type: none"> <li>Characterized bat (<i>E. Fuscus</i>) diet and wolf and marmot parasitic diversity using Sanger Sequencing</li> <li>Presented at UCLA Undergraduate and UCLA Ecology and Evolutionary Biology poster sessions (2015)</li> </ul>                   |                                 |
| <b>Field Technician, Laboratories of Robert Wayne and Debra Shier, UCLA</b>   | Jun. 2015 – Jul. 2015           |
| <ul style="list-style-type: none"> <li>Trapped bats (<i>E. fuscus</i>) using mist nets, collected tissue samples, and tracked using VHF Radio Telemetry</li> <li>Processed and collected data on small mammals (<i>Heteromyidae</i>) using Sherman Live Traps and IR cameras</li> </ul> |                                 |
| <b>UCLA Department of Ecology and Evolutionary Biology</b>  | Jan. 2015 – Mar. 2015           |
| Field Biology Quarter in Refugio Bartola, Nicaragua   |                                 |
| <ul style="list-style-type: none"> <li>Recorded behavioral data on orchid bee (<i>Euglossini</i>) resource partitioning</li> <li>Evaluated the impact of selective logging on aquatic invertebrate nymph diversity within ephemeral pools</li> </ul>                                    |                                 |

**PUBLICATIONS**

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- 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) "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.
- 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

## PRESENTATIONS CONT.

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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

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Ad-Hoc Journal Reviewer, *Hydrobiologia* Oct. 2019

## GRANTS, SCHOLARSHIPS, & AWARDS

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- **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

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**Research Technician, National Park Service Santa Monica Mountains** Dec. 2017 – present

- 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; maintain and develop partnerships with local agencies and private landowners; Developed proficiency with Peterson D500x acoustic recording device and SonoBat software 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 QAQC, and report writing; Evaluated project success through physical and chemical water quality monitoring and biological surveying; 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

**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; Ensured laboratory compliance to safety documents and procedures; Properly disposed of hazardous waste and chemicals; Sourced and purchased laboratory disposables, chemical reagents, and machinery

**Community Service Officer; UC Police Department** April 2013 – May 2016

- Monitored and investigated safety concerns on the UCLA campus and local residences.

## TEACHING EXPERIENCE

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- Teaching Assistant, UCLA Ecology and Evolutionary Biology Department** Spring Qtr. 2020
- Class(es): EEB 154 (California Ecosystems)
- 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

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- 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

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- 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

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- Board Member, 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