

Alexandra Lalor (she/her)

Curriculum Vitae

5 Highland Ave, Felton, CA 95018, USA

allielalor@gmail.com | (408) 220-5214 | alexandralalor.github.io

Research Interests

Fire ecology, dendrochronology, forest regeneration

Education

Feb 8 th 2021 – Dec 16 th 2022	University of Arizona , Tucson AZ, GPS 4.0 M.S. Natural Resources Studies Thesis: <i>Mortality Thresholds of Juvenile Trees to Drought and Heatwaves: Implications for Forest Regeneration across a Landscape Gradient</i>
Aug 12 th 2013 – May 13 th 2017	University of California , Berkeley CA, GPA 3.8 B.S. Honors Environmental Science Major Thesis: <i>Multi-Scale Analysis of Grazing Impacts on Biodiversity at Point Reyes National Seashore</i>
May 27 th 2018 – June 24 th 2018	Universidad Autónoma Metropolitana , México Spanish and Mexican Culture, Modern Mexico, Social Movements of Mexico
July 20 th 2015 – Oct 22 nd 2015	University of Cape Town , South Africa Conservation Science, Urban Studies
June 21 st 2014 – July 5 th 2014	Monterey Bay California State University , California Channel Islands Wildlands Studies: <i>The California Channel Islands Project, Wildlife Recovery and Reintroduction</i>

Publications (in review)

2023	Mortality Thresholds of Juvenile Trees to Drought and Heatwaves: Implications for Forest Regeneration across a Landscape Gradient
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Peer Reviews

2022	Ecosphere , 1 publication
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Research Projects

Feb 8 th 2021 – Dec 16 th 2022	Mortality Thresholds of Juvenile Trees to Drought and Heatwaves: Implications for Forest Regeneration across a Landscape Gradient <i>Master's Thesis, University of Arizona</i>
Jan 19 th 2016 – May 12 th 2017	Multi-Scale Analysis of Grazing Impacts on Biodiversity at Point Reyes National Seashore <i>Senior Thesis, University of California Berkeley</i>

Professional Experience

May 9 th 2021 – Nov 6 th 2021	Grand Canyon National Park , North Rim AZ <i>Assistant Lead Fire Effects Monitor, GS-6</i> <ul style="list-style-type: none">• Monitoring the effectiveness of prescribed fire treatments using long-term forest plots• Collecting forest data such as plot photos, tree growth, shrub abundance, plant species composition, fuel loading, and seedling counts• Plant identification of grasses, forbs, trees, and shrubs• Wildland firefighting and prescribed burn operations• Crew leadership and program management
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May 10 th 2020 – Nov 21 st 2020	Grand Canyon National Park, North Rim AZ <i>Fire Effects Monitor, GS-5</i> <ul style="list-style-type: none"> Collecting forest data such as plot photos, tree growth, shrub abundance, plant species composition, fuel loading, and seedling counts Wildland firefighting and prescribed burn operations
Nov 8 th 2019 – March 16 th 2020	Good Life Ceramics, Santa Cruz CA <i>Storefront Manager</i> <ul style="list-style-type: none"> Managing storefront operations, private events, and studio membership Handling clay projects, kiln operation, mixing glazes, and clay recycling
May 13 th 2019 – Oct 24 th 2019	North Cascades National Park, Marblemount WA <i>Fire Effects Monitor and Fire Dispatcher, GS-3</i> <ul style="list-style-type: none"> Collecting forest data such as plot photos, tree growth, shrub abundance, plant species composition, fuel loading, and seedling counts Curation of tree cores and verifying fire scars using dendrochronology Communications center radio dispatching
Sept 5 th 2018 – Dec 19 th 2018	Luquillo Long-Term Ecological Research Program, El Yunque Puerto Rico <i>Tropical Field Research Intern</i> <ul style="list-style-type: none"> Measuring forest characteristics such as canopy photos, fern surveys, litter processing, and coarse wood debris surveys Data entry, quality control, and data analysis
May 22 nd 2017 – May 18 th 2018	US Geological Survey, Santa Fe NM <i>Dendrochronology Research Intern</i> <ul style="list-style-type: none"> Reconstructing fire history in New Mexico using dendrochronology, fire scars, tree growth response, and cross dating methods to date fire events over the past 900 years Assisting in long term tree mortality monitoring, including demography plots, dendroband measurements, vegetation transects, and fire effects forest plots Experience with power tools such as chainsaws, belt sanders, and bandsaws
Sept 17 th 2016 – May 12 th 2017	Student Environmental Resource Center, Berkeley CA <i>Events Associate</i> <ul style="list-style-type: none"> Managing student events, distributing funds, and coordinating outreach Coordinating the Earth Week Planning Committee to build a weeklong program and structure for student events during Earth Week Connecting with environmental professionals and hosting career networking events Strategic, long-term planning and evaluation of existing and future SERC programs
Jan 20 th 2015 – May 12 th 2017	Cal Dining Sustainability Team, Berkeley CA <i>Zero Waste Coordinator</i> <ul style="list-style-type: none"> Working with dining facilities and students to promote food literacy and waste reduction – organizing recycling challenges, donation programs, and gardening events Implementing educational programs, such as food waste audits and designing signage Initiating Weigh-Your-Waste events in the dining halls to highlight post-consumer food waste and kitchen waste, including recruiting and organizing volunteers
Sept 15 th 2014 – May 14 th 2015	Berkeley Student Food Collective, Berkeley CA <i>Storefront Shift Lead</i> <ul style="list-style-type: none"> Training storefront members in basic store management, such as product organization, labeling, cleaning, and cashiering Assisting the manager in tasks such as making orders and pricing products Experience handling money and transactions as a cashier

Volunteer Experience

- Nov 30th 2020 – March 5th 2021 **Walnut Canyon National Monument**, Flagstaff AZ
Natural Resources Volunteer, 32 hours/week
- Assisting with Walnut Canyon's large tree protection plan to document large-diameter ponderosa pines for climate change comparison
 - Learning of Walnut Canyon's past fire history dendrochronology studies and prescribed burn operations, as well as current prescribed burn management plans

Professional Involvements

- August 2022 – December 2022 [Natural Resources Graduate Student Organization \(NRGSO\)](#), Tucson AZ
Representative for Natural Resources Studies
- Elected officer to serve the departmental student organization, providing a forum to share research, promote leadership, and encourage graduate student fellowship
- March 2020 – May 2021 [Student Environmental Resource Center](#), Berkeley CA
Alumni Committee Member
- Selected member of the SERC Alumni Committee, tasked with increasing avenues for alumni to engage with SERC programs
- January – April '16, '17, '18, '19 [Zero Waste Youth USA](#), San Francisco CA
Committee Member
- Recruiting speakers and volunteers for the Zero Waste Youth Convergence as a part of the planning committee
 - Selected participant and speaker for international Zero Waste Youth meeting in Brazil, October 2017
- February – April '14, '15, '16, '17 [Earth Week Planning Committee](#), Berkeley CA
Committee Member
- Organizing campus-wide events during Earth Week
 - Coordinating with sustainability and environmentally related groups on campus
- September 2013 – May 2017 [Berkeley Student Food Collective](#), Berkeley CA
Committee member, cashier, storefront worker, and food prep worker
- Basic store management at a food co-op, including cashiering, restocking products, opening and closing the storefront, cleaning, and organizing shifts

Mentorships

- August 2022 – May 2023 [Association for Fire Ecology \(AFE\)](#), Tucson AZ (virtual)
- Selected participant of the AFE Mentoring Futures Program
 - **Mentor:** Blanca Cespedes
- August 2022 – December 2022 [Natural Resources Graduate Student Organization \(NRGSO\)](#), Tucson AZ
- Mentor of incoming graduate students in the Natural Resources Department
 - **Mentees:** Stephanie Brennan and Garland Speight
- August 2021 – May 2022 [Women in Science and Engineering \(WISE\)](#), Tucson AZ
- Selected participant in the STEM Mentorship Program
 - **Mentor:** Judith Bronstein
- Jan 2019 – May 2021 [Student Environmental Resource Center](#), Berkeley CA
- Mentor of undergraduate Berkeley students:
 - **Mentees:** Emma Centeno (Fall 2020 – Spring 2021), Mykaela Barnes (Fall 2019 – Spring 2020), Peyton White (Fall 2019 – Spring 2020), Skye Michel (Spring 2019)

Invited Talks

- April 2021 **SERC Springside Alumni Chat**, virtual
SERC Virtual Earth Week event, zoom presentation, college students
University of California, Berkeley CA. April 22 2021.

Workshops and Presentations

December 2022	Masters Defense Presentation , Tucson AZ <i>Mortality Thresholds of Juvenile Trees to Drought and Heatwaves: Implications for Forest Regeneration across a Landscape Gradient</i>
December 2022	Roots for Resilience Presentation , Tucson AZ <i>CyVerse Tools for Reproducible Color Analysis</i>
November 2022	Research Insights in Semiarid Ecosystems (RISE) Symposium , Tucson AZ <i>Patterns and Mechanisms of Climate and Fire Resilience in Sky Island Forests</i>
April 2022	Arizona Institute for Resilient Environments and Societies (AIRES) Experiential Learning Student Showcase, Poster Session , Tucson AZ <u><i>Parsed & Parched: Bridging Culture and Ecology Through Borderland Waters</i></u>
April 2022	Climate Resilience and Adaptation Lightning Talks , Tucson AZ <i>Hotter Droughts: Seedling Responses to Heatwaves and Drought in Post-Fire Recovery</i>
March 2018	Zero Waste Youth USA convergence , San Francisco CA <i>Lessons Learned from Zero Waste Youth Brazil</i>
March 2018	Northern California Recycling Association Recycling Update Conference , San Francisco CA <i>Lessons Learned from Zero Waste Youth Brazil</i>
October 2017	Zero Waste Youth International Convergence , Brazil <i>Zero Waste Youth USA – Florianópolis, Brazil</i> <i>Food Waste at University of California Berkeley – Joinville, Brazil</i>
May 2017	Honors Environmental Science Thesis Presentation and Poster Session , Berkeley CA <i>Multi-Scale Analysis of Grazing Impacts on Biodiversity at Point Reyes National Seashore</i>
November 2016	Powershift Convergence , Berkeley CA <i>Deconstructing Zero Waste Privilege</i>
March 2016	Zero Waste Youth USA Convergence , San Francisco CA <i>Food Waste Reduction at Cal Dining</i>

Professional Development

September 2022 – November 2022	Foundational Open Science Skills Workshop , Tucson AZ (virtual) CyVerse <ul style="list-style-type: none">10-week workshop covering the principles and practice of open science, developing data management plans and metadata standards, and using CyVerse infrastructure
December 2021	9th International Fire Ecology and Management Congress , Tucson AZ (virtual) <i>Association for Fire Ecology</i> <ul style="list-style-type: none">4-day conference including workshops, presentations, and discussion groups

Professional Memberships

Association for Fire Ecology

Fellowships

August 2022 – December 2022	<u>Roots for Resilience (R4R)</u> (\$7,000), Tucson AZ <ul style="list-style-type: none">Training and support on open, reproducible science and computational infrastructure to enhance research focused on resiliency in the environment
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- August 2021 – May 2022
- [University Climate Change Coalition \(UC3\)](#) (\$3,500), Tucson AZ
- In collaboration with the Sky Island Alliance, we developed a storymap highlighting threats to culturally and ecologically important water sources along borderland regions
 - [Parsed & Parched: Bridging Culture and Ecology Through Borderland Waters](#)

Grant Writing Experience

- March 2022
- Graduate & Professional Student Council (GPSC) Travel Grant** (\$2,000), Tucson AZ
- 2022 North American Dendroecological Fieldweek (NADEF) in Quebec Canada
- January 2016 – May 2017
- Expanding Zero Waste in the Residence Halls** (\$12,000), Berkeley CA
- Furnish the residence halls with compost and recycling bins to help reach the campus zero waste goals
- January 2015 – June 2016
- Bulk Bins at Cal Dining** (\$6,000), Berkeley CA
- Establish bulk bins in retail locations across UC Berkeley to assist the college in achieving their zero waste goals

Scholarships

- 2022 – 2023
- Alma L. Wilson Memorial Scholarship in Agriculture – Shared** (\$1,162), University of Arizona
- 2022 – 2023
- Graduate AFAT Scholarship** (\$3,000), University of Arizona
- 2022 – 2023
- Natural Resources Tuition Scholarship** (\$2,595), University of Arizona
- 2021 – 2022
- Natural Resources Tuition Scholarship** (\$3,026), University of Arizona
- 2021 – 2022
- Hope I. Jones Scholarship** (\$812), University of Arizona
- 2021 – 2022
- Clifford W. Carstens Jr. Scholarship** (\$1,020), University of Arizona
- 2021 – 2022
- Joe K. Fannin Scholarship – Rotates** (\$442), University of Arizona
- 2021
- HEERF III Grant** (\$2,750), University of Arizona

Honors and Awards

- 2020, '21
- Outstanding Performance Award**, Grand Canyon National Park
- 2016
- Spot Award**, Cal Dining Sustainability Team, Berkeley CA
- 2014, '15, '16, '17
- Dean's Honors**, University of California Berkeley

Languages

Intermediate Spanish (reading, writing, and oral communication)

Red Card Qualifications

FFT2 (Qualified) Wildland Firefighter – National Wildfire Coordinating Group (NWCG)
 REAF (Qualified) Fireline Resource Advisor – NWCG
 FAL3 (Trainee) Basic Faller – NWCG
 FEMO (Trainee) Fire Effects Monitor – NWCG
 SRT2 (Trainee) Search and Rescue Type 2 – NWCG
 HECM (Trainee) Helicopter Crew Member – NWCG

Certifications

First Aid CPR AED – American Heart Association
 CA Food Handler – American National Standards Institute (ANSI) approved
 Open Water Scuba – Professional Association of Diving Instructors (PADI)

Skills

R programming
 Ceramics experience (kiln operation, glaze mixing, studio management)
 Wood working with heavy power tools (chainsaws, bandsaws, hand saws, belt sanders, etc.)
 Clean driving record, experienced in automatic and manual drive