Alexandra Lalor (she/her)

Curriculum Vitae

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Research Interests

Fire ecology, fire history, dendroecology

Education

January 2021 -University of Arizona, Tucson, GPA 4.0

Present **MS Natural Resources Studies**

Thesis: Hotter Droughts: Seedling Responses to Heatwaves and Drought in Post-Fire Recovery

August 2013 -University of California, Berkeley, GPA 3.8 May 2017 B.S. Honors Environmental Science Major

Thesis: Multi-Scale Analysis of Grazing Impacts on Biodiversity at Point Reyes National Seashore

Test Scores

Graduate Record Examinations (GRE)

Verbal: 163

Quantitative: 159

Analytical Writing: 4.5

Research Experience

January 2021 -Hotter Droughts: Seedling Responses to Heatwaves and Drought in Post-Fire Recovery Present

Master's Thesis

Experimental study to test tree seedling vulnerability to combined effects of droughts

and heatwaves

January 2016 -Multi-Scale Analysis of Grazing Impacts on Biodiversity at Point Reyes National Seashore May 2017 Senior Thesis

• Identifying plant species richness using transects and plot sampling methods

- Analysis of vegetation change over time using Geographic Information Systems
- Extensive historical research of ranching management techniques

Teaching Experience

January 2022 – RNR321 Ecological Surveys and Sampling, University of Arizona

Teaching Assistant, 10 hours/week May 2022

Professional Experience

May 2021 –

Grand Canyon National Park, North Rim AZ

November 2021

Assistant Lead Fire Effects Monitor, GS-6

- 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

May 2020 – November 2020

Grand Canyon National Park, North Rim AZ

Fire Effects Monitor, GS-5

- 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

May 2019 – October 2019

North Cascades National Park, Marblemount WA

Fire Effects Monitor and Fire Dispatcher, GS-3

- 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
- Wildland firefighting and pile burn experience
- Communications center radio dispatching

September 2018 –

Luquillo Long-Term Ecological Research Program, El Yunque Puerto Rico

December 2018 Trop

Tropical Field Research Intern

 Measuring forest characteristics such as canopy photos, fern surveys, litter processing, and coarse wood debris surveys

May 2017 – May 2018

US Geological Survey, Santa Fe NM

Dendrochronology Research Intern

 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

Professional Involvements

August 2021 –

University Climate Change Coalition (UC3), Tucson AZ

May 2022

Fellow

 Selected fellow of UC3, tasked with working with the Sky Island Alliance to review ongoing threats to springs and waterways across Arizona borderlands regions

March 2020 –

Student Environmental Resource Center, Berkeley CA

May 2021 Alumni Committee Member

• Selected member of the SERC Alumni Committee, tasked with increasing avenues for alumni to engage with SERC programs

Jan 2019 -Student Environmental Resource Center, Berkeley CA May 2021 Mentor

- Mentor of undergraduate Berkeley students
- Past mentees: Emma Centeno (Fall 2020 Spring 2021), Mykaela Barnes (Fall 2019 Spring 2020), Peyton White (Fall 2019 - Spring 2020), Skye Michel (Spring 2019)

Zero Waste Youth USA, San Francisco CA January -

April '16, '17, '18, '19 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 – Earth Week Planning Committee, Berkeley CA

April '14, '15, '16, '17

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

Cashier, storefront worker, food prep worker, and committee member

Basic store management at a food co-op, including cashiering, restocking products, opening and closing the storefront, cleaning, and organizing shifts

Volunteer Experience

November 2020 -March 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

Grants		
April 2022	 Graduate Professional Student Council Travel Grant, University of Arizona Grant to attend the 2022 North American Dendroecological Conference 	\$2,000
January 2016 – May 2017	 Expanding Zero Waste in the Residence Halls, Berkeley CA Grant to furnish the residence halls with compost and recycling bins 	\$12,000
January 2015 – June 2016	 Bulk Bins at Cal Dining, Berkeley CA Grant to establish bulk bins in retail locations across UC Berkeley 	\$6,000
Scholarships		
2022	Roots for Resilience Scholarship, University of Arizona	\$7,000
2021, '22	Natural Resources Tuition Scholarship, University of Arizona	\$5,621
2022	Alma L. Wilson Memorial Scholarship, University of Arizona	\$1,162
2021	Clifford W. Carstens Scholarship, University of Arizona	\$1,020

Hope I. Jones Scholarship, University of Arizona \$812
 Joe K. Fannin Scholarship, University of Arizona \$442

Honors and Awards

2020, '21 **Outstanding Performance Award**, Grand Canyon National Park

May 2017 Honors B.S. in Environmental Science, University of California Berkeley

May 2016 Spot Award, Cal Dining Sustainability Team, Berkeley CA

2014, '15, '16, '17 **Dean's Honors**, University of California Berkeley

Speaker Invitations

April 2021 SERC Springside Alumni Chat

SERC Virtual Earth Week event, zoom presentation, college students

University of California, Berkeley CA. April 22 2021.

Conferences Attended

November 2021 9th International Fire Ecology and Management Congress, Tucson, AZ

Association for Fire Ecology

Workshops and Presentations

April 2021 Climate Resilience and Adaptation Lightning Talks, Tucson, AZ

Hotter Droughts: Seedling Responses to Heatwaves and Drought in Post-Fire Recovery

March 2018 Zero Waste Youth USA convergence, San Francisco, CA

Lessons Learned from Zero Waste Youth Brazil

March 2018 Northern California Recycling Association Recycling Update conference, San Francisco, CA

Lessons Learned from Zero Waste Youth Brazil

October 2017 Zero Waste Youth International convergence, Brazil

Zero Waste Youth USA – Florianópolis, Brazil

Food Waste at University of California Berkeley – Joinville, Brazil

May 2017 Honors Environmental Science Thesis Presentation and Poster Session, Berkeley, CA

Multi-Scale Analysis of Grazing Impacts on Biodiversity at Point Reyes National Seashore

November 2016 **Powershift convergence**, Berkeley, CA

Deconstructing Zero Waste Privilege

March 2016 Zero Waste Youth USA convergence, San Francisco, CA

Food Waste Reduction at Cal Dining

Languages

Intermediate Spanish

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

Skills

R programming

Wood working with heavy power tools (chainsaws, bandsaws, hand saws, belt sanders, etc.) Clean driving record, experienced in automatic and manual drive

References

Dr. Donald Falk

Professor

520-626-7201

University of Arizona, ENR2 Building N-224, Tucson, AZ 85721

dafalk@arizona.edu

Faculty Advisor for graduate position

Dr. David Breshears

Regents Professor

520-621-7259

University of Arizona, ENR2 Building N-227, Tucson, AZ 85721

daveb@arizona.edu

Faculty Advisor for graduate position

Li Brannfors

Lead Fire Effects Monitor

928-606-5439 (cell); 928-638-7063 (work)

1 Admin Loop, North Rim, AZ 86052

li_brannfors@nps.gov

Supervisor for Grand Canyon fire effects position

Matthew Engbring

Fire Ecologist

928-607-4335 (cell); 928-707-0304 (work)

1 Admin Loop, North Rim, AZ 86052

matthew_engbring@nps.gov

Supervisor for Grand Canyon fire effects position