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| Alexandra Lalor (she/her)  Curriculum Vitae | | |
| 5 Highland Ave, Felton, CA 95018, USA | | |
| allielalor@gmail.com | (408) 220-5214 | | |
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| **Research Interests** | | |
|  | Fire ecology, fire history, dendroecology | |
| **Education** | | |
| January 2021 – Present | **University of Arizona**, Tucson, GPA 4.0  MS Natural Resources Studies  Thesis: *Hotter Droughts: Seedling Responses to Heatwaves and Drought in Post-Fire Recovery* | |
| August 2013 –  May 2017 | **University of California**, Berkeley, GPA 3.8  B.S. Honors Environmental Science Major  Thesis: *Multi-Scale Analysis of Grazing Impacts on Biodiversity at Point Reyes National Seashore* | |
| May 2018 –  June 2018 | **Universidad Autónoma Metropolitana**, México  Spanish and Mexican Culture, Modern Mexico, Social Movements of Mexico | |
| July 2015 –  November 2015 | **University of Cape** **Town**, South Africa  Conservation Science, Urban Studies | |
| June 2014 –  July 2014 | **Monterey Bay California State University**, California Channel Islands  Wildlands Studies: *The California Channel Islands Project: Wildlife Recovery and Reintroduction* | |
| **Research Experience** | | |
| January 2021 – Present | **Hotter Droughts: Seedling Responses to Heatwaves and Drought in Post-Fire Recovery**  *Master’s Thesis*   * Experimental study to test tree seedling vulnerability to combined effects of droughts and heatwaves | |
| January 2016 – May 2017 | **Multi-Scale Analysis of Grazing Impacts on Biodiversity at Point Reyes National Seashore**  *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 | |
| August 2014 –  December 2014 | **Estimating Population Density of Deer Using Camera Traps**, Berkeley CA  *Research Assistant*   * Analyzing camera trap photos to distinguish and identify deer * Advancing excel skills in recording and organizing extensive data | |
| August 2014 –  December 2014 | **Water Characteristics and Its Effects on Macro Invertebrate Biodiversity and Algal Growth in the South Fork of Strawberry Creek**, Berkeley CA  *Student Research Project*   * Designing a research project measuring water contamination of an urban stream * Water sampling and macro invertebrate species identification * Reinforcing skills in statistical data analysis | |
| **Teaching Experience** | | |
| January 2022 –  May 2022 | **RNR321 Ecological Surveys and Sampling**, University of Arizona  *Teaching Assistant, 20 hours/week* | |
| **Professional Experience** | | |
| May 2021 –  November 2021 | **Grand Canyon National Park**, North Rim AZ  *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 | |
| November 2019 –  April 2020 | **Good Life Ceramics**, Santa Cruz CA  *Storefront Manager*   * Opening and closing the storefront * Cleaning the storefront and communal tools * Handling money and cashiering, managing studio membership * Assisting members in finding supplies, buying clay, and following studio protocol * Loading and unloading the kiln * Recycling clay and operating pug machines * Handling clay at all stages * Glazing hand-built projects * Teaching walk-in customers to hand build selected projects * Customer service * Demonstrating clay-building to large corporate events, both on-site and off-site * Managing on-site private events, such as birthday parties or employee workshops | |
| May 2019 –  October 2019 | **North Cascades National Park**, Marblemount WA  *Fire Effects Monitor and Fire Dispatcher, GS-3*   * 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 * Curation of tree cores and verifying fire scars using dendrochronology * Wildland firefighting and pile burn experience * Communications center radio dispatching | |
| September 2018 – December 2018 | **Luquillo Long-Term Ecological Research Program**, El Yunque Puerto Rico  *Tropical Field Research Intern*   * Measuring forest characteristics such as canopy photos, fern surveys, litter processing, and coarse wood debris surveys * Coquí and Anole abundance surveys * Coring soils for microbial studies * Carbon studies in warming plots through analysis of root growth * Data entry, quality control, and data analysis * Experience living and working in a tropical ecosystem | |
| 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 * Assisting in long term tree mortality monitoring, including demography plots, dendroband measurements, vegetation transects, and fire effects forest plots * Familiarity with R statistical programming and analyzing spatial pattern using GIS * Extensive hiking across mountainous regions identifying fire scarred trees, carrying heavy loads * Experience with power tools such as chainsaws, belt sanders, and bandsaws | |
| August 2016 –  May 2017 | **Student Environmental Resource Center**, Berkeley CA  *Events Associate*   * Managing student events, distributing funds, and coordinating outreach * Hosting a film with the Green Film Festival * Coordinating the Earth Week Planning Committee to build a weeklong program and structure for student events during Earth Week * Connect with environmental professionals and host career networking events * Strategic, long-term planning and evaluation of existing and future SERC programs | |
| January 2015 –  May 2017 | **Cal Dining Sustainability Team**, Berkeley CA  *Zero Waste Coordinator*   * Working with dining facilities and students to promote food literacy and waste reduction – organizing recycling challenges, donation programs, and gardening events * Initiating educational programs, such as food waste audits and designing signage * Implementing large scale local food night in the dining halls across campus. * Conducted waste audits to determine ways to divert food waste in dining halls as well as spearheading a long-term Zero Waste Challenge between dining facilities * Closely working with a small team and communicating with workers and managers * Independently working on and initiating new projects related to food sustainability * Initiating Weigh-Your-Waste events in the dining halls to highlight post-consumer food waste and kitchen waste, including recruiting and organizing volunteers | |
| September 2014 – May 2015 | **Berkeley Student Food Collective**, Berkeley CA  *Storefront Shift Lead*   * 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 | |
| **Professional Involvements** | | |
| August 2021 –  May 2022 | [**University Climate Change Coalition (UC3)**](https://secondnature.org/initiative/uc3-coalition/), Tucson AZ  *Fellow*   * Selected fellow of UC3, tasked with working with the Sky Island Alliance to review ongoing threats to spring and waterways across Arizona borderlands regions | |
| August 2021 –  May 2022 | [**Women in Science and Engineering**](https://wise.arizona.edu/mentorship), Tucson AZ  *Mentee*   * Selected as a mentee for the WISE mentorship program | |
| March 2020 –  May 2021 | [**Student Environmental Resource Center**](https://serc.berkeley.edu/), Berkeley CA  *Alumni Committee Member*   * Selected member of the SERC Alumni Committee, tasked with increasing avenues for alumni to engage with SERC programs | |
| Jan 2019 –  May 2021 | [**Student Environmental Resource Center**,](https://serc.berkeley.edu/enviromentorship/) Berkeley CA  *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) | |
| January –  April ‘16, ’17, ’18, ‘19 | [**Zero Waste Youth USA**](http://www.zerowasteyouthusa.org/), 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**](https://dev-asuc-cert.pantheon.berkeley.edu/earth-week/earth-week-archives/earth-week-2017/), 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**](http://www.foodcollective.org/), 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 | |
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| **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 * Learning of Walnut Canyon’s past fire history dendrochronology studies and prescribed burn operations, as well as current prescribed burn management plans | |
| **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**](https://tgif.berkeley.edu/), Berkeley CA   * Grant to furnish the residence halls with compost and recycling bins | $12,000 |
| January 2015 – June 2016 | [**Bulk Bins at Cal Dining**](https://tgif.berkeley.edu/), Berkeley CA   * Grant to establish bulk bins in retail locations across UC Berkeley | $6,000 |
| **Scholarships** | | |
| 2022 | [**Roots for Resilience Scholarship**](https://datascience.arizona.edu/r4r), 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 |
| 2021 | **Hope I. Jones Scholarship**, University of Arizona | $812 |
| 2021 | **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 | |
| **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** | | |
|  | Geographic Information Systems mapping using ArcGIS  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 | |
| **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 | |
|  | **Dr. Ellen Bledsoe**  Regents Professor  520-621-7259  University of Arizona, ENR2 Building N-227, Tucson, AZ 85721  daveb@arizona.edu  Professor for TA position | |
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|  | **Matthew Engbring**  Fire Ecologist  928-607-4335 (cell); 928-707-0304 (work)  1 Admin Loop, North Rim, AZ 86052  [matthew\_engbring@nps.gov](mailto:li_brannfors@nps.gov)  Supervisor for Grand Canyon fire effects position | |
|  | **John Albrecht**  Owner of Good Life Ceramics  831-345-7916 (cell); 831-515-7560 (work)  [3717 Portola Drive, Santa Cruz, CA 95062](https://www.google.com/maps/dir/Good+Life+Ceramics,+3717+Portola+Dr,+Santa+Cruz,+CA+95062/@36.963903,-121.967787,17z/data=!4m12!1m3!3m2!1s0x808e15167afa371b:0xe43a387ded630d1a!2sGood+Life+Ceramics!4m7!1m0!1m5!1m1!1s0x808e15167afa371b:0xe43a387ded630d1a!2m2!1d-121.967787!2d36.963903) [glconportola@gmail.com](mailto:glconportola@gmail.com)  Supervisor at Good Life Ceramics | |
|  | **Cedar Drake**  Lead Fire Effects Monitor  360-630-3231 (cell); 360-854-7355 (work)  7280 Ranger Station Road, Marblemount, WA 98267  [cedar\_drake@nps.gov](mailto:cedar_drake@nps.gov)  Supervisor for North Cascades fire effects internship | |
|  | **Karen Kopper**  Fire Ecologist  360-333-9659 (cell); 360-854-7354 (work)  7280 Ranger Station Road, Marblemount, WA 98267  [karen\_kopper@nps.gov](mailto:karen_kopper@nps.gov)  Supervisor for North Cascades fire history internship | |
|  | **Lesha Zitkovich**  Fire Program Management Assistant / Dispatcher  509-680-1278 (cell); 360-854-7351 (work)  7280 Ranger Station Road, Marblemount, WA 98267  [lesha­\_zitkovich@nps.gov](mailto:lesha_zitkovich@nps.gov)  Supervisor for North Cascades fire dispatcher position | |
|  | **Jamarys Torres-Díaz**  Research Manager of the Luquillo Forest Dynamics Plot  787-373-0068 (cell)  El Verde Field Station, HC-05 Box 8974, Río Grande, Puerto Rico 00745-9601  [jamarys.torres@upr.edu](mailto:jamarys.torres@upr.edu)  Supervisor for Luquillo research internship | |
|  | **Lane Johnson**  Research Forester  507-330-6165 (cell); 218-726-6411 (work)  175 University Road, Cloquet, MN 55720  [lbj@umn.edu](mailto:lbj@umn.edu)  Supervisor for USGS dendrochronology research internship | |
|  | **Ellis Margolis**  Research Ecologist at the USGS New Mexico Landscapes Field Station  404-668-3272 (cell); 505-954-2251 (work)  301 Dinosaur Trail, Santa Fe, NM 87508  [emargolis@usgs.gov](mailto:emargolis@usgs.gov)  Supervisor for USGS dendrochronology research internship | |
|  | **Craig Allen**  Lead Research Ecologist at the USGS New Mexico Landscapes Field Station  505-795-1571 (cell); 505-672-3861 ext. 720 (work)  301 Dinosaur Trail, Santa Fe, NM 87508  [craig\_allen@usgs.gov](mailto:craig_allen@usgs.gov)  Supervisor for USGS dendrochronology research internship | |
|  | **Samantha Lubow**  Sustainability Coordinator  510-708-8477 (cell); 510-643-1220 (work)  2610 Channing Way #MC2272, Berkeley, CA 94720-2272  [smlubow@berkeley.edu](mailto:smlubow@berkeley.edu)  Supervisor for Cal Dining Sustainability Team position | |
|  | **Sharon Daraphonhdeth**  Director of the Student Environmental Resource Center  415-225-0980 (cell); 510-643-2992 (work)  2495 Bancroft Way, Suite 82C3, Berkeley, CA 94720-4520  [sdara@berkeley.edu](mailto:sdara@berkeley.edu)  Supervisor for Student Environmental Resource Center position | |