

Elise Jael Zufall

ezufall@ucdavis.edu

<https://www.linkedin.com/in/elisejl/>

ACADEMIC EXPERIENCE

UC Davis (Davis, CA) 09/21-present
Ph.D. Student in Geography

Stanford University (Stanford, CA) 09/14–06/19
M.S. in Earth Systems, 2019
B.S. with Honors in Earth Systems: Sustainable Food and Agriculture, 2018; Minor: History Notation in Science Communication; Cardinal Service Notation

Studies include: Geospatial Humanities; Statistics; Ecology; Ocean Conservation; Sustainable Cities; Public Land and Open Space Management; Environmental Policy and Law; Computer Science; Data Aesthetics; Health and Science Journalism; Environmental Narrative Writing; History of Science; Land Rights and Climate Change; Tradeoffs in Climate Decision-Making; Rhetoric of Science

Bing Overseas Study Programs: University of Oxford, 2017—environmental geography, philosophy & policy; museum studies Oaxaca, 2017—biocultural diversity & community-based conservation; Patagonia, 2018—human-environment systems

RESEARCH EXPERIENCE

Regeneration Project under Paul Hawken 06/20-08/20
Research Intern

- Researched the potential of ecosystem restoration strategies and green energy technologies to reduce and offset fossil fuel emissions
- Drafted summaries of scientific literature regarding these solutions and current case studies for the forthcoming book *Regeneration: Ending the Climate Crisis in One Generation*

Dirzo Lab (Stanford University) and **LESEM Lab** (Iowa State University) 06/17–09/18
Advisors: Dr. Rodolfo Dirzo and Dr. Lisa Schulte Moore

[Honors Thesis](#) Title: “Assessing Reduction of Soil Erosion in Row-Crop-Prairie Systems Through Mixed Effect and Simulation Modeling.”

Grant Funding: Volpert Scholars Award
Presented at 2018 Volpert Scholars Symposium

Environmental Decision-Making and Neuroscience Lab (Stanford University) 09/16–03/17
Volunteer Research Assistant

- Assisted with fMRI operation for research on neuroscience of public environmental perceptions and decisions
- Wrote MATLAB scripts presenting visual stimuli and storing response data

Landscape Ecology and Sustainable Ecosystem Management (LESEM) Lab 06/16–09/16
Iowa State University - Dept. of Natural Resource Ecology and Management
Undergraduate Research Assistant

- Created tutorial videos and scientific glossary for educational LULCC modeling tool

- Assisted in field research
- Synthesized research results for general and legislative audiences; conducted data management and visualization

PUBLICATIONS AND PRESENTATIONS

- Researcher and content contributor to Paul Hawken's 2021 book *Regeneration: Ending the Climate Crisis in One Generation*
- Presented honors thesis work at 2018 Stanford EARTH Thesis Symposium and 2018 Volpert Scholars Symposium
- Presented Iowa State University's PEWI land use learning tool at the 2016 Iowa Association of Agricultural Educators Conference
- Piece on [farmer-scientist conservation collaborations and barriers](#) published in the AAAS Public Engagement Blog
- Presented forest management research at Universidad de la Sierra Juárez, 2017
- Assistant editor and content contributor to the 2021 publication *Counterpoints: A San Francisco Bay Area Atlas of Displacement and Resistance*

SCIENCE COMMUNICATION EXPERIENCE

American Association for the Advancement of Science Dialogue on Science, Ethics, and Religion (D.C.) 07/19–09/19

Intern

- Edited science communication materials for DoSER publications, including scientist interviews, videos, and resources
- Drafted social media content based on breaking scientific research and news relevant to DoSER focus areas
- Provided administrative support for a grant program enabling science education for seminary students
- Tracked metrics for grantors, conducted market research, corresponded with 229 potential project partners

The Stanford Daily (Stanford, CA) 05/19–07/19

Staff Writer ([link to portfolio of articles](#))

- News and Academics reporter on issues including science-religion dialogue, environmental justice, loss of funding for academic publishing, guest speakers, university decisions. KQED decided to run a piece on the defunding of Stanford University Press after reading one of my articles on the topic.

Prudenterra (Sustainable Forestry and Agroecology, Ames, IA) 06/18–09/18

Marcom Content Creator

- Captured and edited photos and video for publication on social media platforms and website, including Twitter, IG, FB

Conducted farmer interviews, wrote feature article on an ecosystem restoration partnership

U.S. House of Representatives Committee on Science, Space, and Technology 06/15–08/15
(Washington, D.C.)

Intern for Research and Technology Subcommittee, Space Subcommittee

- Researched background information for hearings and other efforts; edited letters, scripts, memos, statements

LOCAL ENVIRONMENTAL PUBLIC ENGAGEMENT EXPERIENCE

Volunteer at O'Donohue Family Stanford Educational Farm, Spring 2016 & Fall 2018; Anti-Eviction Mapping Project, Fall 2018 Volunteer partner for non-profit organization: La Mesa Verde, Winter 2017

- Highlighted policy successes & voices of community gardeners with interactive web materials & bilingual videos

Community-Engaged Research Partner: Amah Mutsun Land Trust, Fall 2018

- Researched and recommended management strategies for a potential land purchase with a stand of rare Santa Cruz Cypress; researched relevant ethnobotanical and traditional ecological knowledge

TEACHING AND ADVISING EXPERIENCE

Live Oak Academy (Santa Clara, CA)

08/20-06/21

Earth Science, Biology, and Mathematics Teacher

- Taught 8th grade Earth science and planetary science, 5th grade biology and ecology, 3rd grade general science, and 7th grade Pre-Algebra
- Constructed labs and tailored lessons for interactive distance learning during quarantine

Cardinal Tutors (Stanford, CA)

09/19-08/20

Tutor (Contractor)

- Mentored high school and middle school students in algebra, chemistry, physics, and biology
- Designed lesson plans, assembled study resources, and helped students develop test-taking and study strategies

Earth Systems Program Employee (Stanford University)

09/18–06/19

Course Assistant: Ethics of Stewardship; Student Advisor

- Led student projects involving practice of stewardship at O'Donohue Educational Farm, graded assignments
- Advised students on coursework and introduced students to Earth Systems department

CURRICULUM DEVELOPMENT EXPERIENCE

- Created an early modern history of science elementary education curriculum as a final history project
- Developed educational resources on eviction in the San Francisco Bay Area for a student learning day
- Developed and implemented two 10-week summer music theory camps as an assistant children's choir director

HONORS & AWARDS

2018 School of Earth, Energy and Environmental Sciences Dean's Award for Undergraduate Academic Achievement Nominated for the Stanford Boothe Prize for Excellence in Freshman Writing

U.S. Presidential Scholar 2014

SKILLS AND INTERESTS

Coursework in R, MATLAB, C++, and Java; ArcGIS; creative writing; amateur photography; video development in Adobe Premiere and Camtasia; familiarity with Microsoft Office including Excel and Word; oboe; experience in website development including WordPress, Drupal, and CSS; intermediate Spanish; international medalist (2nd pl.) barbershop quartet