UNIVERSITY OF CALIFORNIA
Agriculture and Natural Resources

II. Academic Program Review Dossier Cover Page | 2025 Cycle

Name, Lived Name:	Edith B. de Guzman
Preferred Pronoun(s):	She/Her/Hers
Academic Title:	Assistant Specialist in Cooperative Extension
County/Program:	UCLA / Statewide Cooperative Extension
Review Type:	Merit
Current Rank/Step:	Assistant Specialist in Cooperative Extension II
Requested Rank/Step:	Assistant Specialist in Cooperative Extension III
Review Time Period:	September 1, 2023 to September 30, 2025
Thematic Areas:	Water equity and climate adaptation

UNIVERSITY OF CALIFORNIA
Agriculture and Natural Resources

UNIVERSIDAD DE CALIFORNIA
Agricultura y Recursos Naturales

Position Description
Edith B. de Guzman
Water Equity and Adaptation Policy Assistant CE Specialist
Effective Date: September 1, 2023

PURPOSE

As the global climate changes, cities around the world are experiencing unprecedented shifts including changes in water availability that intensify drought and precipitation extremes, and heat waves that are increasing in severity, duration, and frequency. Los Angeles County is ecologically and politically connected to the rest of California and is home to one-quarter of the state's population. Los Angeles and the surrounding Southern California region are deeply diverse culturally, socio-economically, climatically, and topographically, and research and extension activities generated in the region have statewide impact. This diversity renders the region as a real-life laboratory for adapting to an era of global changes while promoting and advancing human and environmental health and wellbeing through equitable access to clean water, green spaces, and other environmental services and amenities.

The Water Equity and Adaptation Policy CE specialist is expected to make meaningful contributions in this arena, informing research, practice, and policy that have the potential to affect millions of Californians and the natural resources upon which they rely. The CE specialist is expected to do so by developing an extramurally-funded research and extension education program to address water scarcity and equity, climate adaptation, and related conditions; forge strong interactions with local, regional, state and national partners and clientele, as well as with UC colleagues; contribute to core research and extension goals established within UC Agriculture and Natural Resources (UC ANR); and assist in establishing an innovative multi-disciplinary program in their field of expertise. Areas of focus for the CE Specialist may include advancing: local water supply sustainability and reliability; drinking water system sustainability and equity; understanding and enhancing tap water trust; urban forest equity; and urban heat-health equity.

PROGRAM RESPONSIBILITIES

APPLIED RESEARCH AND CREATIVE ACTIVITY: The CE specialist will conduct a collaborative, multifaceted research and outreach program focused on providing regional and statewide leadership and coordination in water equity and adaptation policy and planning, to address issues around water quality, access, affordability, and climate adaptation for disadvantaged urban and rural communities. The CE specialist will develop multi-disciplinary collaborations with other UC and external researchers to address needs, and should seek out opportunities to bring government, non-governmental, community-based, and private-sector partners and other stakeholders into these collaborations. Examples of applied research may include: assessing variability in water pricing and engaging with decision-makers to advance policy and program strategies to alleviate related affordability challenges for vulnerable communities; assessing the state of tap water trust in urban and/or rural communities and identifying and testing strategies to increase trust; and evaluating urban forest equity and heat-health equity, and engaging with governmental and non-governmental decision-makers to adopt policy and program strategies to address those inequities.

EXTENDING KNOWLEDGE AND INFORMATION: The CE specialist will provide overall leadership for planning and coordination of extension activities related to water equity and climate adaptation. Extension activities will include collaborative educational activities and presentation of

relevant research-based information in an array of venues and to a variety of audiences. Extension may occur via stakeholder meetings, conferences, ANR publications, peer-reviewed journals, web-based publications, and through the press and popular media. The CE Specialist will also find creative opportunities to extend knowledge, such as through collaborations that combine science and art to deepen audience engagement in water and climate issues. Programs will be developed and carried out in collaboration with ANR, UC, and other academic colleagues, as well as community groups, non-governmental organizations, government entities, and private industries. The CE Specialist will serve as a key resource of science-based information for clientele including community groups, non-governmental organizations, and public agencies. Leading and stimulating interdisciplinary collaborations will be an essential role.

PROFESSIONAL COMPETENCE AND ACTIVITY: All UC ANR CE specialists are required to demonstrate professional competence in their programmatic areas. Professional competence includes participation in training activities to enhance professional development, such as administrative trainings, professional conferences, or workshops. Professional competence also includes activities that reflect professional standing within the programmatic area, such as presenting at conferences or workshops, holding offices in professional societies, invited presentations, and reviewing/editing publications.

UNIVERSITY AND PUBLIC SERVICE: All UC ANR CE specialists are required to actively serve the University, as well as the public. University service may occur at the local, division, state, national, or international level. Examples of potential University service activities include serving on a university workgroup or committee, providing leadership in program teams, or advocacy efforts. Public service should involve activities and events in which the CE specialist uses their professional expertise to benefit groups or efforts outside the University. Examples may include serving on external boards or councils, participating in community events, and leadership of non- University collaborative groups.

ADDITIONAL EXPECTATIONS

The CE specialist will interact with UC ANR program teams, CE advisors, other CE specialists, LCI and the broader UCLA community, advisory groups and others within the research/extension network to develop, strengthen and expand the delivery of statewide products. Additionally, the CE specialist is expected to make contributions in the following areas:

Technical competence

- Conduct and report needs assessments to identify priority issues or problems relevant to the local clientele groups being served.
- Develop and implement effective Cooperative Extension applied research and educational programs to address the identified priority needs of the clientele that are consistent with UC ANR's Strategic Vision and ANR initiatives and UCLA LCI's mission and values;
- Conduct applied research designed to assess and address statewide and locally relevant problems related to water equity and climate adaptation.

Communication

- Disseminate appropriate, science-based information to inform clientele, using extension methods and platforms that are responsive to clientele needs and appropriate for the audience and situation;
- Maintain and promote UCCE and UCLA LCI's's credibility by providing science-based knowledge;
- Evaluate programs and report accomplishments, results, and potential or actual impacts to

scientific and lay audiences through a variety of outreach methods, such as peer-reviewed publications, social media, workshops, and newsletters.

Collaboration & Teamwork

- Interact with campus academic colleagues, thereby creating synergies that will advance the programmatic goals of both UCLA LCI and UC ANR;
- Interact with UCLA undergraduate and graduate students in relevant programs via occasional lectures and other academic functions (such as serving on dissertation committees, oral exams, etc.) as appropriate. In accordance with UC Academic Personnel Policy 334, Specialist in Cooperative Extension Series, the teaching of regular undergraduate or graduate courses will not be a primary responsibility of the position;
- Engage in campus faculty meetings, campus faculty committee service, and other activities of the UCLA faculty as appropriate;
- Maintain close contact and working relationships with relevant stakeholder groups and agencies.

Lifelong Learning

- Demonstrated commitment to ongoing self-improvement — both professionally and as a person.

AFFIRMATIVE ACTION and DIVERSITY, EQUITY, AND INCLUSION (DEI)

- Comply with all applicable federal and state laws and regulations, and all University policies regarding affirmative action, including prohibition of discrimination on the basis of race, color, national origin, religion, sex, sexual orientation, physical or mental disability, age, veteran status, medical condition, ancestry or marital status.
- Promote, in all ways consistent with other responsibilities of the position, accomplishment of the affirmative action goals established by UC ANR.
- Take all measures necessary to assure any employee or volunteer workers supervised by this position fulfill their affirmative action responsibilities.

REPORTING RELATIONSHIP

The CE Specialist is academically and administratively responsible to the UC ANR Associate Vice President for Research and Extension. UC ANR will oversee the merit and promotion process. The position will be stationed at the Luskin Center for Innovation on the UC Los Angeles campus. It is expected that the CE specialist will maintain an additional 0% uncompensated appointment with UCLA.

EDUCATION AND EXPERIENCE

A minimum of a Ph.D. (or international equivalent) related to water and climate adaptation policy and planning, with demonstrated expertise and interest in equity issues. Possible disciplinary backgrounds include: planning, public policy, community development, public health, economics, sociology, political science, environmental science, engineering, and geography. Applicants who have not yet earned a Ph.D. must be within 12 months of completing their degree in order to be considered for the position. Excellent written, oral and interpersonal communication skills are required. A demonstrated ability in water equity and climate adaptation research and extension of information is desirable. Experience in securing and managing extramural grants, carrying out field-based research, and publishing multi-disciplinary research is desirable. Candidates whose experience in research, or community service has prepared them to contribute to our commitment to diversity and excellence are particularly welcome.

Reviewers:



Nov. 1, 2024

Dr. Edith B. de Guzman — Date



Nov 5, 2024

Dr. Daniel Obrist — Date
Vice Provost of Academic Personnel

_____ _____
Date

Introduction (Statement of Assignment)

I am a Cooperative Extension Specialist in Water Equity and Adaptation Policy, with ANR since 2023. I am the first-ever Specialist at UCLA. I am stationed at the Luskin Center for Innovation (LCI), which works to inform effective and equitable environmental policy. I have statewide responsibilities with a particular focus on Southern California. I have a 1.0 FTE appointment with ANR and 0.0 FTE with the UCLA Department of Urban Planning. I am Assistant rank, Step II, seeking regular merit to Assistant CE Specialist Step III.

As the global climate changes, cities around the world are experiencing unprecedented shifts, including changes in drought and precipitation extremes affecting water availability, and heat waves increasing in severity, duration, and frequency. Home to 25% of the state's population, Los Angeles (LA) County is ecologically and politically connected to the rest of the state. LA and surrounding counties are deeply diverse culturally—socio-economically, climatically, and topographically—and research and extension activities in the region have statewide impact. I have built a highly collaborative program that engages the region as a real-life laboratory for adapting to an era of global challenges. Through strategic partnerships and resources, my program serves several clientele groups—government agencies, community groups, businesses, nongovernmental organizations, and academic partners—with the aim of advancing knowledge and contributing new climate adaptation and water equity approaches from the household to the regional level. Program inputs include staff time, knowledge, student research, and funding to support outputs such as reports and presentations. During this review period, my program focused on three themes aimed at promoting and advancing human and environmental health and wellbeing through equitable access to environmental amenities: 1) Water Equity; 2) Climate Adaptation; and 3) Urban Wildfire Preparedness and Response. My program contributes directly to ANR public value statements, including: Improved built environment, landscaping, and access to green spaces; Increased community disaster preparedness and resilience to extreme weather and change in climate; Increased equitable access to resources; Improved water use efficiency and water supply security; and Increased ecosystem resilience to extreme weather and change in climate.

Theme #1: Water Equity Research and Extension

Background, Clientele, Goals, Inputs: My program informs approaches for water managers in California (CA) grappling with water supply challenges exacerbated by the climate crisis who recognize the need to further invest in equitable, climate-smart, integrated local strategies. It also serves under-resourced communities facing a variety of water challenges—including water affordability, distrust of tap water, and accessing a clean, safe water supply—standing in the way of achieving CA's AB685 Human Right to Water goals that "every human being has the right to safe, clean, affordable, and accessible water."

Methods, Outcomes, and Impacts

1. Making the most out of landmark recycled water investments in the Los Angeles region

From Nov. 2023 through May 2024, in a partnership between LCI and LA Waterkeeper, I co-led the establishment of a technical advisory committee (TAC) to provide guidance to policymakers and water agencies on regional advanced wastewater treatment investments that will be taking shape in the coming years. In 2023, CA became the first US state to authorize direct potable reuse (blending purified wastewater directly into drinking water), ushering in the potential for the region to be sustained largely by local water. More than $20 billion in wastewater recycling projects are in development in the region, providing reason for optimism while presenting hurdles to overcome and potential negative consequences to avoid. My effort surveyed, interviewed, and convened the TAC and the leaders of the LA region's major water agencies to derive recommendations aimed at the primary decision-makers making investment decisions. I was lead author on a 2024 report presenting an analysis of the advisory process and distilling the TAC's input into actionable recommendations. Several recommendations have been adopted by the agencies, including that projects led separately by the City of LA Bureau of Sanitation and the Department of Water and Power be combined into one effort with a single name and purpose. This project contributes to the condition change "Improved water use efficiency and water supply security."

2. What's On Tap: LA's Water Story…Source to Spigot

I conceived, curated, and secured support for a science-based, interactive extension project which used art to engage audiences on five themes: Affordability; Tap water (dis)trust; The human right to water; Imported water impacts; and Local water and groundwater. The show was on view for nine weeks at three venues: Avenue 50 Studio (a nonprofit rooted in Latino and Chicano culture); the City of LA El Pueblo Historical Monument (the historic birthplace of Los Angeles); and at the Water (R)evolution Symposium organized by the Council for Watershed Health in Carson, CA. Opening and closing receptions included panel discussions. 2,439 people visited the exhibit, 345 of whom participated in a blind water tasting sampling three brands of bottled water along with tap water, recording guesses about each. Identification accuracy was 32%, indicating participants struggled to correctly identify the brands, often despite strong opinions on preference. Tap was often confused with bottled water, suggesting tap is not easily distinguishable. 137 visitors filled out open-ended prompt cards about: 1) Type of water consumed at home and why; 2) Questions or concerns about water; and 3) Most meaningful bodies of water and why. Dominant concerns reported were: whether future drought conditions will return; if municipal water is safe to drink; and whether privatization of water drives up costs. Findings, which I share in the 2025 report *Engaging the Public On Water Issues Through Art*, are informing my program. This activity contributes to the condition change "Improved community health and wellness" because it encourages Californians to trust tap water rather than purchase alternatives, including sugary sweetened beverages.

3. Southern California Community Water System Atlas

For my *water* needs assessment (I conducted another on *climate adaptation*), I led the *2025 Southern California Community Water Systems Atlas*, a report and interactive mapping tool that compiles and analyzes public datasets to show how fragmented governance affects communities differently, providing the most comprehensive public resource on water systems. Community water systems are the basic building blocks of CA's water supply, providing drinking water to millions across the state. But who and how these systems are governed directly impacts safety, affordability, and reliability in the face of climate change. The *Atlas* expands the scope of earlier UCLA studies (in 2015 and 2020) that covered only LA County. With ANR start-up support, I hired Staff Research Associates to expand it to 663 systems across six counties (LA, Kern, Orange, Riverside, San Bernardino, and Ventura), serving 40% of CA's population. The effort garnered media attention, including an *LA Times* feature. A webinar was attended by 88 people and included a panel discussion with regional and state water governance experts. Findings are not only informing my program, but also provide an unmatched tool for policymakers, researchers, and communities to track water system performance and target solutions. This effort ties to "Increased equitable access to resources" and "Improved water use efficiency and water supply security" as it supports water system level changes by helping prioritize attention on systems at highest risk of failure.

Theme #2: Climate Adaptation Research and Extension

Background, Clientele, Goals, Inputs

As CA gets hotter, advancing climate health equity through access to shade, urban forest stewardship, and heat exposure reduction in disadvantaged communities is increasingly urgent. Guidance to ensure research informs adaptation policies, funding, and programs equitably is needed. My program establishes strategic partnerships with the aim to advance knowledge and climate adaptation approaches, and I lead the "Urban Greening" issue area (one of six main areas) at LCI, which further expands program impact.

Methods, Outcomes, and Impacts

1. Los Angeles Urban Forest Equity Collective

I co-founded the LA Urban Forest Equity Collective (UFEC), a consortium of forestry experts, LA City staff, community organizations, and researchers. We conducted a comprehensive analysis and created strategies to advance urban forest equity, which represents my needs assessment for this theme. Increasing tree cover in Southern CA is challenging because of extensive development, a semi-arid climate, resource constraints, and the legacies of discriminatory policies, and in 2024 we released a suite of publications that redefine urban forest equity and present actionable solutions. Our framework is replicable regionally and beyond LA, with tools to prioritize and plant trees and add shade in urban areas. Outcomes have included: 1) Adoption of UFEC's decision-making framework by the City of LA Office

of Forest Management (OFM) to guide the City's prioritization of urban forestry planning and implementation to increase tree canopy by 50% in select neighborhoods by the 2028 Olympic and Paralympic Games; 2) OFM "adopted" UFEC and is convener/facilitator of UFEC meetings of dozens of entities coordinating planning, grant writing, policymaking and implementation; 3) A **symposium** to encourage practitioners and scientists to collaborate and inform one another's urban forest equity approaches (see next entry). In July 2025, I was featured in the PBS *Earth Focus* episode "Combatting Climate Change with Trees" including a 10-minute segment on the activities of this needs assessment research. This and the next entry contribute to condition changes "Improved community health and wellness," and "Increased preparedness and resilience to extreme weather and climate change."

2. Urban Forestry for Changing Times Symposium

Lack of cross-pollination between researchers and practitioners hampers urban forestry approaches. I conceived and was co-organizer for the symposium "Urban Forestry for Changing Times: The Practice of Science and the Science of Practice" in 2024, together with USDA Forest Service, LA County, and City of LA. Held at the USDA Angeles Nat'l Headquarters, it was attended by 170+ researchers, practitioners, community members, and government and nonprofit representatives (with 50+ people waitlisted). We organized it around three panels: 1) State of the research: 2) Science delivery & communication; 3) Urban forest equity approaches. We had breakout sessions on how scientific research and practice can support better plans, policies, and programs. Proceedings were shared with decision-makers in city and county government and the US Forest Service. Tabling by ANR (about the Integrated Pest Management program) and others engaged participants in related topics. A survey revealed attendee knowledge level on symposium topics increased by 34 percentage points (31% reported *pre*-symposium knowledge of "I know a lot" or greater; *post*-symposium knowledge was 65% at this level). 95% stated they gained insights about the importance of bridging research and practice in urban forestry and 90% said their understanding improved of the importance of research specifically. The symposium was widely promoted and received TV coverage on an ABC7 Los Angeles climate solutions segment.

3. Roots of Cool: A Celebration of Trees and Shade in a Warming World.

I conceived and curated a science-based exhibition on shade equity and the life-giving role trees and shade play in a hotter climate, which was on view July-October 2025 at Descanso Gardens—a botanic garden, living museum, and premier LA County Department of Parks & Recreation destination with over 1 million annual visitors. The show included outdoor installations throughout the Gardens, a science-based indoor exhibition, and pathways to civic engagement to involve visitors of all ages and backgrounds in solutions. A total of 41,250 visitors were engaged by docents. Another 138,750 saw the outdoor installations. The program brought visitors on a carefully narrated journey grounded in science and policy, offering multiple entry points for visitors with different learning modalities and knowledge on the topic. An Activity Room offered interactive activities: 6,000+ visitors conveyed their visions, sentiments and concerns related to a hotter climate by responding to prompts in drawing and writing; 3,714 participated in a poster-sized survey responding to: 1) The most surprising shade-related fact (out of five facts); and 2) Whether or not their neighborhood has sufficient shade on a hot day. A team of UCLA students will complete a findings report early 2026. I curated two educational events offering family-friendly activities, including: a panel discussion on shade equity solutions; a science-curriculum heat scavenger hunt; free tree giveaway; a thermal image photo booth; tabling by climate action partner organizations; and more. The exhibit garnered outstanding media attention, including a feature article in both print and digital versions of the *LA Times*, as well as in *Newsbreak*, *LA Magazine*, and the *Associated Press*, among many other outlets.

4. ShadeLA. I co-launched a brand-new campaign called ShadeLA in July 2025 with USC. The goal is to bring more natural and built shade to LA County by leveraging the attention and investments coming in advance of the 2028 Olympic and Paralympic Games. Official campaign participants are the City of LA, LA County of, LA Metro and the LA Organizing Committee for the 2028 Games (LA28), plus over a dozen non-governmental organizations, design firms, and other partners. Research is a major work stream and includes the following areas (each with distinct projects under it): Planning and mapping; Permitting and policy; Urban design; and Public engagement. ShadeLA has been written about in the *LA Times*,

Torched, and featured in NBC News and other outlets. An LA City Council Motion formalizing the City's relationship with ShadeLA was introduced (it passed just beyond the reporting period), building on the Mayor's commitment and authorizing the City to expand, maintain, and fast-track both shade projects.

Theme #3: Urban Wildfire Preparedness and Response

Background, Clientele, Goals, Inputs

This is a newly-added theme, responding to the devastating fires that hit LA in January 2025. Unprecedented widespread destruction has left many unanswered questions as communities face the daunting task of rebuilding in an era of climate change pushing wildfires increasingly into urban areas. The need to contribute toward resilience and recovery solutions became immediately urgent in the hours and days following the start of the two largest fires, the Eaton and Palisades fires. I took many media interviews—even as I was under imminent evacuation from the Palisades fire and under the smoke plume of the Eaton fire—to provide scientific and policy grounding on several topics, including: why the fires were so destructive, what the role of climate change is in changing fire risk, how water supply systems work and their role in firefighting, and what the dynamics are between fires and urban vegetation. In the months since, this theme has continued to escalate and I have co-developed collaborative research and extension around two sub-themes to advance knowledge, evaluate conditions, contribute new wildfire preparedness and response approaches, and improving outcomes in future fires: 1) Dynamics between water supply and urban conflagrations; and 2) Dynamics between urban forests and urban conflagrations.

Methods, Outcomes, and Impacts

1. Dynamics Between Water Supply and Urban Conflagrations

In April 2025, UCLA's Climate & Wildfire Research Initiative (CWRI) launched the Climate & Wildfire Research Initiative Research and Policy Coordination Network, led by LCI in partnership with UC ANR's California Institute for Water Resources. The Network is chaired by Greg Pierce at LCI. I co-lead the effort along with Erik Porse (ANR) and Faith Kearns (Arizona State University). The effort aims to cover: 1) Strengthening drinking water infrastructure resilience; 2) Addressing equity in the cost of new investments; 3) Ensuring water quality and community trust after fires; 4) Navigating the relationship between wildfire risk, vegetation, and water supply. We are delivering four workshops on these issues. The first was in August in Sacramento, focused on capacities and limitations of water supply systems to fight wildfire in wildfire-prone areas. A report on the workshop findings will be published in early 2026, and I co-authored a related under-review manuscript in *Environmental Research Letters*. I also co-authored a 2025 published commentary in *Nature Water*, titled "Redefining expectations for urban water systems to fight fires." I also served as faculty advisor Jan-June 2025 for a class of 12 UCLA Urban Planning master's students on a capstone project researching water system drought and climate solutions for the LA County Department of Public Works as a client. This included research on firefighting and recovery resilience of water systems. Our first class meeting was held the afternoon of January 7 (the day the fires started), and we watched the flames of the Palisades fire spread out of our classroom window. This story and my expert commentary were shared in a *Guardian* article that ran a few days later.

2. Dynamics Between Urban Forests and Urban Conflagrations

Shortly after the fire, my colleagues and I (Alessandro Ossola/UC Davis, Francisco Escobedo/USDA Forest Service, Chris Shogren/ANR, Ryan Klein/U of Florida) established a research group to do a rapid forensic assessment of trees and vegetation of the Eaton and Palisades disaster zones. I led the Palisades portion, which is in proximity to UCLA. I oversaw data collection over several weeks involving a dozen personnel to measure tree damage, loss, and mortality, and collect data to assess fire dynamics between vegetation and structures. I secured a wildfire rapid research intramural grant from the UCLA Office of Research and Creative Activities, to support scientific equipment and graduate student hiring. This is a longitudinal study to assess tree health and survivability and my team will be returning to do a second round of data collection in spring 2026. Separately, I was a contributor to the research components of the LA County Blue Ribbon Commission on Climate Action and Fire-Safe Recovery, an independent commission established by LA County Supervisor Lindsey Horvath and UCLA Chancellor Julio Frenk. I coordinated a research memo on urban forest/vegetation considerations on defensible space, which were published in the Commission's final report.

University & Public Service

I have and continue to serve in an array of university and public service positions. At the invitation of AVP Hales, I am one of two co-leads for Region 4 on the ANR Disaster Preparedness and Response Team. I authored two posts for ANR's California Institute for Water Resources *Confluence* blog on my programs and related ANR collaborations. In 2025 I served as a contributor to the LA County Blue Ribbon Commission for Climate Action and Fire Safe Recovery report on research considerations for post-fire recovery, lending expertise related to vegetation management to reduce structure loss. I regularly serve as a faculty advisor to undergraduate and graduate students on projects that relate to my program at the UCLA Urban Planning Department and the Institute of the Environment and Sustainability. I also serve on several commissions and boards on an ongoing basis, including: LA County Safe Clean Water Program - Upper LA River Watershed Area Steering Committee; City Plants Advisory Board; LA Metro Games Mobility Executives Heat Subcommittee; LA Center for Urban Natural Resources Sustainability Advisory Board; and Friends of the LA River Advisory Board.

Professional Competence

I am continually active at various local, regional, state, and national levels of engagement. I am serving as a heat and water expert contributor for the Office of the Governor and California Natural Resources Agency on the California Fifth Climate Change Assessment: LA Region. I am a recurring guest lecturer for the UCLA Department of Urban Planning and the David Geffen School of Medicine Urban Health Equity Pathway program. I lead the Urban Greening program area at LCI, one of the Center's six main areas of activity. I receive invitations regularly to present on my research and extension activities, and presented at conferences of the Ecological Society of America, American Geophysical Union, and American Association of Geographers, among many others. I moderated a panel on lessons learned at the Water (R)evolution Symposium on recycled water supply and was a panelist at the CoMotion conference on cooling solutions for the 2028 Olympic Games in LA. I serve as a referee for various journals, including *Urban Forestry & Greening*, *International Journal of Biometeorology*, and *Cities and the Environment*.

Civil Rights Compliance and Contributions to UC ANR's Principles of Community

With a program focused on water and climate equity affecting underserved communities, providing equitable opportunity for participation in my program is an essential part of the design of my projects and an outcome I take seriously. My clientele group is organizations, and I work with approximately 40 selectively chosen groups whose audiences reflect Southern CA's diverse communities, especially underrepresented groups. As an example, my 2024 water equity exhibition was in partnership with Avenue 50 Studio, a nonprofit that engages in neighborhoods that are primarily Latino of Mexican and Central American descent and bilingual in speech, signage, and character. My 2025 exhibition on shade equity at Descanso Gardens directly engaged 41,250 people, 41% who identify as Hispanic or Latino, Asian or Asian American, Black, Native American, or mixed-race, with many coming from communities with Title I schools, according to a 2021 Descanso visitor study. Outreach to reach diverse audiences includes email blasts and social media posts in partnership with organizations, announcements through newspapers and radio, and personal correspondence and invites.

Closing Summary

Joining ANR in 2023 has been a highlight of my career thus far and has enabled me to take the next logical step in my career trajectory by supercharging my research and extension activities. My two needs assessments in the areas of water equity and climate adaptation have provided clarity about where I can be of greatest service and affect measurable conditions changes to bring clean, safe, and sustainable water and reduce heat and climate impacts for at-risk communities. Having these focus areas crystallized is enabling me to build highly impactful partnerships that are reaching decisionmakers and tens of thousands of community members in understanding the science behind the challenges and the solutions available to address them. Looking ahead, I plan to continue to advance some of the longer-term projects discussed above, and to develop new projects, in collaboration with colleagues at ANR and beyond, e.g., around tap trust. In this first review period I submitted or was otherwise included in 10+ proposals that had a lower success rate than I anticipated. I plan to build stronger funding support for my program going forward.

A. Project Summary

Project Title	Role	Collaborators	Support Amount/Duration (if applicable)	Support Source
Urban wildfire preparedness and response (3)				
Post-Wildfire Urban Forestry Research Project	PI	Christopher Shogren(UC ANR), Francisco Escobedo (USDA Forest Service), Alessandro Ossola (UC Davis), Ryan Klein (University of Florida)	$29,818 2025-2026	UCLA Office of Research and Creative Activities
Water Supply + Wildfire Research and Policy Coordination Network	Co-organizer	Greg Pierce (UCLA), Erik Porse (UC ANR), Faith Kearns (ASU)	$90,000 2025-2026	UCLA Climate and Wildfire Research Institute / Sustainable LA Grand Challenge
LA County Blue Ribbon Commission for Climate Action and Fire Safe Recovery	Researcher	Megan Mullin (UCLA)		California Community Foundation and in-kind support from UCLA
Water equity research and extension (4)				
Regional Wastewater Recycling Technical Coordination	Co-PI and Organizer	Greg Pierce (UCLA), Bruce Reznik (Los Angeles Waterkeeper)	$30,000 2023-2024	Los Angeles Waterkeeper

Project Title	Role	Collaborators	Support Amount/Duration (if applicable)	Support Source
Southern California Community Water Systems Atlas	PI	Greg Pierce (UCLA)	2024-2025	UC ANR Start-up funds
What's On Tap: LA's Water Story, Source to Spigot	Co-curator and convener	Erik Porse (UC ANR), Kathy Gallegos (Avenue 50 Studio), John Kopczynski (City of Los Angeles)	$2,000 2024	California Institute for Water Resources
California Environmental Flows Framework, Los Angeles River	Technical working group member	Isaac Brown, Wendy Katagi (Stillwater Sciences)	2024-2026	Santa Monica Mountains Conservancy, LA City
Climate adaptation research and extension (6)				
NSF-ECUITY	Project scientist	Travis Longcore (UCLA)	ANR unfunded collaboration due to contracting constraints	National Science Foundation
LA Urban Forest Equity Collective	Co-Investigator	Rachel O'Leary (CAL FIRE)	$307,000 2022-2024	USDA Forest Service; Accelerate Resilience LA
NOAA Center for Heat Resilient Communities	Center launch advisor	V. Kelly Turner (UCLA) Sara Meerow (ASU), Ladd Keith (University of Arizona)	Terminated by federal administration in 2025; unfunded collaboration due to UCLA/ANR Multi-Location Agreement challenges	NOAA and US Dept of Commerce

Project Title	Role	Collaborators	Support Amount/Duration (if applicable)	Support Source
ShadeLA	Co-founder and PI	Monica Dean (University of Southern California), Colleen Callahan (UCLA)		UC ANR Start-up funds
California Fifth Climate Change Assessment	Science advisor and co-author	Alex Hall (UCLA), Sophie Katz (UCLA)	In-kind	
Roots of Cool: A Celebration of Trees and Shade in a Warming World	Co-curator	Marina Erfle (Descanso Gardens), David Maddox (The Nature of Cities)	$145,000 2023-2025	Descanso Gardens, Accelerate Resilience LA, LA County Arts and Culture, TreePeople

B. Professional Competence and Professional Activity

Professional Development and Training

Begin Date - End Date	Location	Name, Description and Occurrence of Activity
March - Nov 2024	Hybrid	ANR Mentorship Program (mentor: Erik Porse)
March 2024	San Jose, CA	Water Education for Latino Leaders Conference
April 2024	Los Angeles	Op-Ed Workshop Presented by Los Angeles Times
December 2024	Washington, DC	American Geophysical Union Conference

April 2025	Los Angeles	Luskin Summit 2025: Equitable Recovery and Resilience Conference
May 2025	Los Angeles	UCLA Los Angeles Forum: Mega Events, Major Opportunities
July 2025	Los Angeles	Climate Resolve Conference: The Reflect Effect

Disciplinary Society or Professional Association

Disciplinary Society/Prof. Assoc Name	Membership/Meetings Attended/Activities
American Geophysical Union	Member and attendee/presenter at conference (2024, 2025)
American Association of Geographers	Member and conference presenter (2023, 2024)

Evidence of Professional Competency

Begin Date - End Date	Location	Name, Description and Occurrence of Award, Recognition, Professional Presentation, Office or Activity
April 2024	Hybrid	Invited presentation: Tree Equity & Climate Justice XIII America's Latino Eco Festival
August 2024	Long Beach, CA	Invited Presentation: Ecological Society of America Conference
October 2024	Carson, CA	Moderator: Lessons Learned Panel. Water (R)evolution Symposium
November 2024	Los Angeles	Invited panelist: CoMotion Conference, panel on "Making Cool Paths to the Olympic & Paralympic Games"
April 2025	Virtual	Invited panelist: City of Los Angeles Climate Equity LA Series: “Advancing Shade Equity for a Cool, Healthy LA”
August 2025	Los Angeles	Invited panelist: Making Water Work: Groundwater Replenishment Project Celebration

Ongoing	UCLA	Leading "Urban Greening" Program Area for UCLA Luskin Center for Innovation
Ongoing	N/A	Referee for various journals (incl. Urban Forestry & Greening, Int'l Journal of Biometeorology, Cities and the Environment, etc.)
Ongoing	Los Angeles	Guest lecturer: UCLA David Geffen School of Medicine; UCLA Ecology and Evolutionary Biology; UCLA Urban Planning; and other campuses and departments

C. University Service

Begin Date - End Date	Name, Description, and Occurrence of Activity	Org Level	Your Contribution and Leadership Role
June 2025 - ongoing	UC ANR Extension Disaster Preparedness Network	State	Co-lead, Region 4 sub-team
Ongoing	UCLA Urban Planning Department and UCLA Institute of the Environment & Sustainability	Campus	Capstone Project Advisor (individual and group projects)

D. Public Service

Begin Date - End Date	Name, Description, and Occurrence of Activity	Org Level	Your Contribution and Leadership Role
Sept. 2023 - ongoing	Los Angeles Center for Urban Natural Resources Sustainability - Executive Oversight Team	Region	Advisory Board Member
January 2024 - ongoing	Friends of the Los Angeles River Advisory Board	County	Advisory Board Member
April 2024 - ongoing	Los Angeles County Commission - Upper Los Angeles River Watershed Area Steering Committee	County	County Commission Member
Aug 2024 - Ongoing	City Plants Advisory Board	County	Advisory Board Member

September 2024 - ongoing	Los Angeles County Water Plan - Small Water Systems Working Group	County	Collaborator
September 2024 - ongoing	Los Angeles County Water Plan - Nature-Based Solutions Task Force	County	Collaborator
October 2024 - December 2025	California Fifth Climate Change Assessment: Los Angeles Region	State	Co-author (Heat, Water, Wildfire); Reviewer (all sections)
February 2025 - ongoing	LA Metro Games Mobility Executives Heat Subcommittee	County	Advisory Member
March - June 2025	Los Angeles County Blue Ribbon Commission for Climate Action and Fire Safe Recovery	County	Researcher and Contributor

E. Extension Activities or Coordination of Academic Program activities (as applicable)

Meetings Organized

Begin Date - End Date	Meeting Name and Type	Topic/no. of repetitions	Role	Location(s)	Total No. of Attendees
Water equity research and extension (3)					
Feb 22, 2024	Wastewater Recycling Technical Advisory Convening	Regional wastewater recycling coordination / 1	Co-convener and co-facilitator	UCLA Luskin Conference Center	45
Jul 13, 2024	Water Equity Panel Discussion	Water equity panel discussion / 1	Organizer	Avenue 50 Studio, Los Angeles	70
Aug 18, 2025	CWRI Water System - Wildfire Workshop #1	Workshop on "Water system wildfire fighting resilience capacities and expectations" / 1	Co-organizer, facilitator	University of California Student & Policy Center, Sacramento	42
Climate adaptation research and extension (6)					
Jun 20, 2024	California Environmental Education Interagency Network (CEEIN) Meeting	Water Equity and Adaptation / 1	Presenter	Statewide (online)	15

Jul 11 - Oct. 12 2024	Roots of Cool exhibition (including opening reception)	Exhibition / extension activity on view for 3 months/ 1	Curator	Descanso Gardens, La Cañada Flintridge, CA	41,250
Sep 5, 2024	"Urban Forestry for Changing Times" Symposium	"Urban Forestry for Changing Times" Symposium / 1	Organizer	Angeles National Forest Headquarters, Arcadia, CA	170
Feb 28, 2025	Workshop	“ShadeLA: urban greening & shade” (soliciting feedback before launch	Organizer	University of Southern California	43
Jul 25, 2025	Made In the Shade	Science learning event for families, offered in conjunction with Roots of Cool / 1	Co-organizer	Descanso Gardens, La Cañada Flintridge, CA	700
Aug 2, 2025	A Celebration of Cool	Daylong science engagement event for families offered in conjunction with Roots of Cool / 1	Co-organizer	Descanso Gardens, La Cañada Flintridge, CA	1500

Educational Presentations

Begin Date - End Date	Meeting Name/Event	Presentation Topic/no. of repetitions	Location(s)	No. of Attendees
Urban wildfire preparedness and response (1)				
Nov 5, 2025	Caring for Our Trees, People, and Communities: Post-Fire Urban Forestry	Water Supply Challenges in an Era of Increasingly Urban Wildfires / 1	Virtual	186
Water equity research and extension (6)				
Oct 17, 2023	Guest lecture: UCLA Urban Planning 262 - Urban Environmental Problems: Water Resources	Australia's climate change responses and lessons for Los Angeles / 1	UCLA	20
Nov 14, 2023	Guest lecture: UCLA Urban Planning 260A - Environmental Assessment: Urban Design	Climate change, water management, and lessons for Los Angeles / 1	UCLA	22
Apr 3, 2024	Guest lecture: UCLA Environmental Science 180C	Stormwater management and school greening / 1	UCLA	8
Apr 20, 2024	City of West Hollywood "Water Wise | Water Works" Symposium	How the LA region's story of water is changing / 1	City of West Hollywood Council Chambers	35
Mar 18, 2025	Highland Park Ebell Club	Invited presentation "What's On Tap: LA's Water Story, Source to Spigot" / 1	Ebell Theater, Los Angeles	28

Begin Date - End Date	Meeting Name/Event	Presentation Topic/no. of repetitions	Location(s)	No. of Attendees
Aug 27, 2025	Making Water Work	Panel: Water Equity in Action: Healthy Ecosystems and Communities for Our Shared Future / 1	Donald C Tillman Water Reclamation Plant, Van Nuys, CA	178
Climate adaptation research and extension (6)				
Nov 30, 2023	SPROUT: An eco-urban poetry journal Issue 3: Shade	Exploring Shade Equity Through Art, Science, and Poetry / 1	Virtual	90
Apr 17, 2024	UCLA Luskin Summit 2024	Cooling Strategies for an Active L.A. in a Warming World / 1	UCLA Meyer and Renee Luskin Conference Center, Los Angeles, CA	300
Jun 20, 2024	Presentation to: California Environmental Education Interagency Network	Presentation to California Environmental Education Interagency Network / 1	Virtually to audience in Davis	12
Feb 13, 2025	Workshop: Overcoming Barriers in Urban Tree Planting and Care	A tale of two community tree stewardship audiences: Residents & Tree Ambassadors / 1	Virtual	240

Begin Date - End Date	Meeting Name/Event	Presentation Topic/no. of repetitions	Location(s)	No. of Attendees
May 14, 2025	City of Los Angeles Tree Ambassador Workforce Training	Presentation about LA Urban Forest Equity Collective Project / 1	Watts Rising Office, Los Angeles	15
Oct 15, 2025	Guest Lecture at West LA College	Guest lecture on urban forest equity and heat mitigation / 1	West LA College (virtual)	18

Other (including websites, social media, blogs, collaborations with other agencies, organizations, policy engagement)

Begin Date - End Date	Description	No. of Instances
Water equity research and extension (7)		
Sep 1, 2023 (Ongoing)	Professional Website: edithdeguzman.com	25
Feb 14, 2024	Luskin Sacramento Briefing: "Changing How — and Where — Californians Get Their Water"	1
Feb 22, 2024	LA Wastewater Recycling Coordination Technical Advisory Panel Convening	1
Jun 1, 2024	Report: Making the Most of Landmark Recycled Water Investments in Los Angeles	1
Jul 13, 2024 - Aug 10, 2024	Water Extension Exhibition "What's On Tap" - First Exhibit Showing (at Avenue 50 Studio)	1

Begin Date - End Date	Description	No. of Instances
Aug 24, 2024 - Sep 29, 2024	Water Extension Exhibition "What's On Tap" - Second Exhibit Showing (at El Pueblo Historical Monument)	1
Oct 15, 2024	Water Extension Exhibition "What's On Tap" - Third Exhibit Showing (Water (R)evolution Symposium)	1
Climate adaptation research and extension (3)		
Jan 15, 2024	Los Angeles Urban Forest Equity: Assessment, Tools, and Recommendations	1
Mar 13, 2024	Guest Blogger for Union of Concerned Scientists, contributed article on my needs assessment: "Growing Shade Equity, One Tree at a Time"	1
Jul 11 - Oct 12, 2025	Roots of Cool - Science-Based Exhibition Extension Program	1

Other (including TV and/or radio interviews/programs, newspaper/trade magazine interviews)

Begin Date - End Date	Interviewed/Written By (optional)	Topic	Name of Media or Publication
Urban wildfire preparedness and response (1)			
Jan 7, 2025 - Sep 30, 2025		Expert analysis on LA wildfires provided in over a dozen interviews (role of climate, water systems, vegetation)	Various, including: Guardian, Washington Post, San Francisco Chronicle, Los Angeles Times, ABC, etc.
Water equity research and extension (4)			

Begin Date - End Date	Interviewed/Written By (optional)	Topic	Name of Media or Publication
Feb 8, 2024	Ian James	Article on my needs assessment: "How California's storms are projected to become more extreme with climate change"	Los Angeles Times
Mar 4, 2024	Jacob Margolis	Article: "How you can help refill LA's aquifers by capturing stormwater at home"	KPCC 89.3FM / LAist (NPR Affiliate)
Mar 11, 2024	Erin Stone	Article: "LA has big plans to turn a landfill into a wetland, but delays are jeopardizing the project"	KPCC 89.3FM / LAist (NPR Affiliate)
Sept. 15, 2025	Ian James	Article: "Water bills in L.A. County are rising faster than inflation, UCLA research shows"	Los Angeles Times
Climate adaptation research and extension (12)			
Sep 15, 2023	Matt Simon	Article: "This is your kid's brain on extreme heat"	WIRED
Nov 1, 2023	Maryn McKenna	Article: "As extreme heat increases, heart attacks will rise"	WIRED
May 9, 2024	Matt Simon	Article on a peer-reviewed article I co-authored: "City trees save lives"	WIRED
Jun 20, 2024	Nathalie Basha	TV interview: "California workplace safety board approves heat protections for indoor workers, excluding prisons"	Spectrum 1 News

Begin Date - End Date	Interviewed/Written By (optional)	Topic	Name of Media or Publication
Jul 16, 2024	Matt Simon	Media article: “The surprisingly simple way cities could save people from extreme heat”	Grist
Aug 25, 2024	Étienne De Metz	Article: “Planète: le crépuscule des palmiers de Los Angeles”	La Tribune
Sep 5, 2024	Rob Hayes	TV interview highlighting urban cooling research and symposium I organized	ABC 7 Eyewitness News
Sep 9, 2024	Clement Lau	Article about symposium I organized	Planetizen
Sep 19, 2024	Jill Webb	Article “U.S. legislators push mandates for cooling regulations in rental housing”	Prism
Sep 23, 2024	Matt Simon	Article “The secret ingredient in Biden’s climate law? City trees”	Grist
July 12, 2025	Marcos Magana	Article on my extension project: “A new art show brings L.A. climate inequities to life at Descanso Gardens”	Los Angeles Times
Jul 16, 2025 - Jul 31, 2025	Dan Birman	Featured scientist in episode "Combating Climate Change with Trees" with ~10 min of air time to share my research	PBS “Earth Focus” series

F. Publications (Bibliography)

Peer-Reviewed

B - Peer-reviewed scholarly publications

- Pierce, G., de Guzman, E., Mullin, M. (2025). Redefining expectations for urban water supply systems to fight wildfires. *Nature Water*. 3, 248–250. https://doi.org/10.1038/s44221-025-00405-y
- Sheridan, S., de Guzman, E., Eisenman, D., Sailor, D., Parfrey, J., Kalkstein, L. (2024).. Increasing tree cover and high-albedo surfaces reduces heat-related ER visits in Los Angeles, CA. *International Journal of Biometeorology*. Volume 68, 1603–1614. https://doi.org/10.1007/s00484-024-02688-4
- de Guzman, E.B., Wohldmann, E.L.,Eisenman, D.P. (2023). Cooler and Healthier: Increasing Tree Stewardship and Reducing Heat-Health Risk Using Community-Based Urban Forestry. *Sustainability*. 15:8, 6716. https://doi.org/10.3390/su15086716
- de Guzman, E.B. (2023). Evaluating the Impact of Trees on Residential Thermal Conditions in Los Angeles Using Community Science. Cities and the Environment. 16:2. September 2023. https://doi.org/10.15365/cate.2023.160208

C - Other peer-reviewed publications

None

Non Peer-Reviewed

A. Popular press articles

- Pierce, G., Porse, E., Kearns, F., de Guzman, E., Salcedo, C., et al. (2025). Water Systems and Wildfire: Understanding Capacities and Limitations. *Confluence* - California Institute for Water Resources Blog. September 29, 2025.
- de Guzman, E. Engaging audiences in water science and policy through art. *Confluence* - California Institute for Water Resources Blog. September 25, 2025.
- de Guzman, Edith; de Guzman, Jolly. (2024) What can Nature-based Solutions and sustainability professionals learn from cultural institutions such as museums and botanical gardens? The Nature of Cities Roundtable Blog. December 9, 2024.
- de Guzman, E. Growing Shade Equity, One Tree at a Time. *The Equation* - Union of Concerned Scientists Blog. May 13, 2025.

D - Technical reports and other non-reviewed articles

- de Guzman, E., Holler, L. (2025). *Engaging the Public On Water Issues Through Art*. UCLA Luskin Center for Innovation and UC Agriculture and Natural Resources.
- de Guzman, E., Pierce, G., Gorman, J., Dunlap, L., Rincon, M., Vasquez-Rodriguez, I., Cruz, V. (2025). *The 2025 Southern California Community Water Systems Atlas*. UCLA Luskin Center for Innovation and UC Agriculture and Natural Resources.
- Pierce, G., Callan, W., Blain, L., Da Luz, N., Kumpel, E.,Hernandez, A., Taneja, J., Klug, T., Harrison, G., Gorman, J., de Guzman, E. (2025). *How Have the LA Fires Affected Water Systems in LA County? An Early Overview*. UCLA Luskin Center for Innovation.
- Gibson, P., Liston, R., O'Leary, R., de Guzman, E., Yang, M., Nasr, H., Reed, C., Hellman, D., Chen, C., Yu, K. (2024). *Los Angeles Urban Forest Equity Neighborhood Strategy: Sylmar*. Los Angeles Urban Forest Equity Collective.
- Hellman, D., de Guzman, E., O'Leary, R. (2024). *Los Angeles Urban Forest Equity: Assessment, Tools, and Recommendations*.Los Angeles Urban Forest Equity Collective.

- Gilliam, R., Thomas, A., O'Leary, R.,; de Guzman, E., Yang, M., Hellman, D., Chen, C., Yu, K. (2024). *Los AngelesUrban Forest Equity Neighborhood Strategy: Central Alameda*. Los Angeles Urban Forest Equity Collective.
- de Guzman, E., Pierce, G. (2024). *Making the Most of Landmark Recycled Water Investments in Los Angeles: Technical Advisory Recommendations for the Region.* UCLA Luskin Center for Innovation, UC Agriculture and Natural Resources, and Los Angeles Waterkeeper.
- Sheridan, S., de Guzman, E.B., Sailor, D.S., Eisenman, D.P., Kalkstein, L S., Parfrey, J., Chen, Y., Koetter, M., Herrmann, D. (2023). *Rx for Hot Cities 2: Reducing Heat and ER Visits With Trees and High-albedo Surfaces in Los Angeles*. TreePeople and Los Angeles Urban Cooling Collaborative.

E - Published abstracts

- Gabbe, C.J., Pierce, G., de Guzman, E. (2025, June). Residential Heat Exposure and Health: Evidence from the American Housing Survey. In *ACSP 2025 Book of Abstracts.*
- de Guzman, E.B., Sheridan, S.C., Eisenmann, D.P., Sailor, D., Parfrey, J., Kalkstein, L.S., Shickman, K. (2024, December). From inquiry to implementation: Operationalizing climate adaptation of urban natural systems through interdisciplinary researcher-practitioner partnerships. In *AGU Fall Meeting Abstracts* (Vol. 2024, pp. H53W-06).

A. Project Summary

Project Title	Role	Collaborators	Support Amount/Duration (if applicable)	Support Source
Urban wildfire preparedness and response (3)				
Post-Wildfire Urban Forestry Research Project	PI	Christopher Shogren(UC ANR), Francisco Escobedo (USDA Forest Service), Alessandro Ossola (UC Davis), Ryan Klein (University of Florida)	$29,818 2025-2026	UCLA Office of Research and Creative Activities
Water Supply + Wildfire Research and Policy Coordination Network	Co-organizer	Greg Pierce (UCLA), Erik Porse (UC ANR), Faith Kearns (ASU)	$90,000 2025-2026	UCLA Climate and Wildfire Research Institute / Sustainable LA Grand Challenge
LA County Blue Ribbon Commission for Climate Action and Fire Safe Recovery	Researcher	Megan Mullin (UCLA)		California Community Foundation and in-kind support from UCLA
Water equity research and extension (4)				
Regional Wastewater Recycling Technical Coordination	Co-PI and Organizer	Greg Pierce (UCLA), Bruce Reznik (Los Angeles Waterkeeper)	$30,000 2023-2024	Los Angeles Waterkeeper
Southern California Community Water Systems Atlas	PI	Greg Pierce (UCLA)	2024-2025	UC ANR Start-up funds

Project Title	Role	Collaborators	Support Amount/Duration (if applicable)	Support Source
What's On Tap: LA's Water Story, Source to Spigot	Co-curator and convener	Erik Porse (UC ANR), Kathy Gallegos (Avenue 50 Studio), John Kopczynski (City of Los Angeles)	$2,000 2024	California Institute for Water Resources
California Environmental Flows Framework, Los Angeles River	Technical working group member	Isaac Brown, Wendy Katagi (Stillwater Sciences)	2024-2026	Santa Monica Mountains Conservancy, LA City
Climate adaptation research and extension (6)				
NSF-ECUITY	Project scientist	Travis Longcore (UCLA)	ANR unfunded collaboration due to contracting constraints	National Science Foundation
LA Urban Forest Equity Collective	Co-Investigator	Rachel O'Leary (CAL FIRE)	$307,000 2022-2024	USDA Forest Service; Accelerate Resilience LA
NOAA Center for Heat Resilient Communities	Center launch advisor	V. Kelly Turner (UCLA) Sara Meerow (ASU), Ladd Keith (University of Arizona)	Terminated by federal administration in 2025; unfunded collaboration due to UCLA/ANR Multi-Location Agreement challenges	NOAA and US Dept of Commerce
ShadeLA	Co-founder and PI	Monica Dean (University of Southern California), Colleen Callahan (UCLA)		UC ANR Start-up funds
California Fifth Climate Change Assessment	Science advisor and co-author	Alex Hall (UCLA), Sophie Katz (UCLA)	In-kind	

Project Title	Role	Collaborators	Support Amount/Duration (if applicable)	Support Source
Roots of Cool: A Celebration of Trees and Shade in a Warming World	Co-curator	Marina Erfle (Descanso Gardens), David Maddox (The Nature of Cities)	$145,000 2023-2025	Descanso Gardens, Accelerate Resilience LA, LA County Arts and Culture, TreePeople

B. Professional Competence and Professional Activity

Professional Development and Training

Begin Date - End Date	Location	Name, Description and Occurrence of Activity
March - Nov 2024	Hybrid	ANR Mentorship Program (mentor: Erik Porse)
March 2024	San Jose, CA	Water Education for Latino Leaders Conference
April 2024	Los Angeles	Op-Ed Workshop Presented by Los Angeles Times
December 2024	Washington, DC	American Geophysical Union Conference
April 2025	Los Angeles	Luskin Summit 2025: Equitable Recovery and Resilience Conference
May 2025	Los Angeles	UCLA Los Angeles Forum: Mega Events, Major Opportunities
July 2025	Los Angeles	Climate Resolve Conference: The Reflect Effect

Disciplinary Society or Professional Association

Disciplinary Society/Prof. Assoc Name	Membership/Meetings Attended/Activities
American Geophysical Union	Member and attendee/presenter at conference (2024, 2025)

American Association of Geographers	Member and conference presenter (2023, 2024)

Evidence of Professional Competency

Begin Date - End Date	Location	Name, Description and Occurrence of Award, Recognition, Professional Presentation, Office or Activity
April 2024	Hybrid	Invited presentation: Tree Equity & Climate Justice XIII America's Latino Eco Festival
August 2024	Long Beach, CA	Invited Presentation: Ecological Society of America Conference
October 2024	Carson, CA	Moderator: Lessons Learned Panel. Water (R)evolution Symposium
November 2024	Los Angeles	Invited panelist: CoMotion Conference, panel on "Making Cool Paths to the Olympic & Paralympic Games"
April 2025	Virtual	Invited panelist: City of Los Angeles Climate Equity LA Series: “Advancing Shade Equity for a Cool, Healthy LA”
August 2025	Los Angeles	Invited panelist: Making Water Work: Groundwater Replenishment Project Celebration
Ongoing	UCLA	Leading "Urban Greening" Program Area for UCLA Luskin Center for Innovation
Ongoing	N/A	Referee for various journals (incl. Urban Forestry & Greening, Int'l Journal of Biometeorology, Cities and the Environment, etc.)
Ongoing	Los Angeles	Guest lecturer: UCLA David Geffen School of Medicine; UCLA Ecology and Evolutionary Biology; UCLA Urban Planning; and other campuses and departments

C. University Service

Begin Date - End Date	Name, Description, and Occurrence of Activity	Org Level	Your Contribution and Leadership Role
June 2025 - ongoing	UC ANR Extension Disaster Preparedness Network	State	Co-lead, Region 4 sub-team

Ongoing	UCLA Urban Planning Department and UCLA Institute of the Environment & Sustainability	Campus	Capstone Project Advisor (individual and group projects)

D. Public Service

Begin Date - End Date	Name, Description, and Occurrence of Activity	Org Level	Your Contribution and Leadership Role
Sept. 2023 - ongoing	Los Angeles Center for Urban Natural Resources Sustainability - Executive Oversight Team	Region	Advisory Board Member
January 2024 - ongoing	Friends of the Los Angeles River Advisory Board	County	Advisory Board Member
April 2024 - ongoing	Los Angeles County Commission - Upper Los Angeles River Watershed Area Steering Committee	County	County Commission Member
Aug 2024 - Ongoing	City Plants Advisory Board	County	Advisory Board Member
September 2024 - ongoing	Los Angeles County Water Plan - Small Water Systems Working Group	County	Collaborator
September 2024 - ongoing	Los Angeles County Water Plan - Nature-Based Solutions Task Force	County	Collaborator
October 2024 - December 2025	California Fifth Climate Change Assessment: Los Angeles Region	State	Co-author (Heat, Water, Wildfire); Reviewer (all sections)
February 2025 - ongoing	LA Metro Games Mobility Executives Heat Subcommittee	County	Advisory Member
March - June 2025	Los Angeles County Blue Ribbon Commission for Climate Action and Fire Safe Recovery	County	Researcher and Contributor

E. Extension Activities or Coordination of Academic Program activities (as applicable)

Meetings Organized

Begin Date - End Date	Meeting Name and Type	Topic/no. of repetitions	Role	Location(s)	Total No. of Attendees
Water equity research and extension (3)					
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Jul 13, 2024	Water Equity Panel Discussion	Water equity panel discussion / 1	Organizer	Avenue 50 Studio, Los Angeles	70
Aug 18, 2025	CWRI Water System - Wildfire Workshop #1	Workshop on "Water system wildfire fighting resilience capacities and expectations" / 1	Co-organizer, facilitator	University of California Student & Policy Center, Sacramento	42
Climate adaptation research and extension (6)					
Jun 20, 2024	California Environmental Education Interagency Network (CEEIN) Meeting	Water Equity and Adaptation / 1	Presenter	Statewide (online)	15
Jul 11 - Oct. 12 2024	Roots of Cool exhibition (including opening reception)	Exhibition / extension activity on view for 3 months/ 1	Curator	Descanso Gardens, La Cañada Flintridge, CA	41,250

Sep 5, 2024	"Urban Forestry for Changing Times" Symposium	"Urban Forestry for Changing Times" Symposium / 1	Organizer	Angeles National Forest Headquarters, Arcadia, CA	170
Feb 28, 2025	Workshop	“ShadeLA: urban greening & shade” (soliciting feedback before launch	Organizer	University of Southern California	43
Jul 25, 2025	Made In the Shade	Science learning event for families, offered in conjunction with Roots of Cool / 1	Co-organizer	Descanso Gardens, La Cañada Flintridge, CA	700
Aug 2, 2025	A Celebration of Cool	Daylong science engagement event for families offered in conjunction with Roots of Cool / 1	Co-organizer	Descanso Gardens, La Cañada Flintridge, CA	1500

Educational Presentations

Begin Date - End Date	Meeting Name/Event	Presentation Topic/no. of repetitions	Location(s)	No. of Attendees
Urban wildfire preparedness and response (1)				
Nov 5, 2025	Caring for Our Trees, People, and Communities: Post-Fire Urban Forestry	Water Supply Challenges in an Era of Increasingly Urban Wildfires / 1	Virtual	186
Water equity research and extension (6)				

Begin Date - End Date	Meeting Name/Event	Presentation Topic/no. of repetitions	Location(s)	No. of Attendees
Oct 17, 2023	Guest lecture: UCLA Urban Planning 262 - Urban Environmental Problems: Water Resources	Australia's climate change responses and lessons for Los Angeles / 1	UCLA	20
Nov 14, 2023	Guest lecture: UCLA Urban Planning 260A - Environmental Assessment: Urban Design	Climate change, water management, and lessons for Los Angeles / 1	UCLA	22
Apr 3, 2024	Guest lecture: UCLA Environmental Science 180C	Stormwater management and school greening / 1	UCLA	8
Apr 20, 2024	City of West Hollywood "Water Wise | Water Works" Symposium	How the LA region's story of water is changing / 1	City of West Hollywood Council Chambers	35
Mar 18, 2025	Highland Park Ebell Club	Invited presentation "What's On Tap: LA's Water Story, Source to Spigot" / 1	Ebell Theater, Los Angeles	28
Aug 27, 2025	Making Water Work	Panel: Water Equity in Action: Healthy Ecosystems and Communities for Our Shared Future / 1	Donald C Tillman Water Reclamation Plant, Van Nuys, CA	178
Climate adaptation research and extension (6)				
Nov 30, 2023	SPROUT: An eco-urban poetry journal Issue 3: Shade	Exploring Shade Equity Through Art, Science, and Poetry / 1	Virtual	90

Begin Date - End Date	Meeting Name/Event	Presentation Topic/no. of repetitions	Location(s)	No. of Attendees
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Jun 20, 2024	Presentation to: California Environmental Education Interagency Network	Presentation to California Environmental Education Interagency Network / 1	Virtually to audience in Davis	12
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Begin Date - End Date	Description	No. of Instances
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Sep 1, 2023 (Ongoing)	Professional Website: edithdeguzman.com	25

Begin Date - End Date	Description	No. of Instances
Feb 14, 2024	Luskin Sacramento Briefing: "Changing How — and Where — Californians Get Their Water"	1
Feb 22, 2024	LA Wastewater Recycling Coordination Technical Advisory Panel Convening	1
Jun 1, 2024	Report: Making the Most of Landmark Recycled Water Investments in Los Angeles	1
Jul 13, 2024 - Aug 10, 2024	Water Extension Exhibition "What's On Tap" - First Exhibit Showing (at Avenue 50 Studio)	1
Aug 24, 2024 - Sep 29, 2024	Water Extension Exhibition "What's On Tap" - Second Exhibit Showing (at El Pueblo Historical Monument)	1
Oct 15, 2024	Water Extension Exhibition "What's On Tap" - Third Exhibit Showing (Water (R)evolution Symposium)	1
Climate adaptation research and extension (3)		
Jan 15, 2024	Los Angeles Urban Forest Equity: Assessment, Tools, and Recommendations	1
Mar 13, 2024	Guest Blogger for Union of Concerned Scientists, contributed article on my needs assessment: "Growing Shade Equity, One Tree at a Time"	1
Jul 11 - Oct 12, 2025	Roots of Cool - Science-Based Exhibition Extension Program	1

Other (including TV and/or radio interviews/programs, newspaper/trade magazine interviews)

Begin Date - End Date	Interviewed/Written By (optional)	Topic	Name of Media or Publication
Urban wildfire preparedness and response (1)			

Begin Date - End Date	Interviewed/Written By (optional)	Topic	Name of Media or Publication
Jan 7, 2025 - Sep 30, 2025		Expert analysis on LA wildfires provided in over a dozen interviews (role of climate, water systems, vegetation)	Various, including: Guardian, Washington Post, San Francisco Chronicle, Los Angeles Times, ABC, etc.
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Mar 11, 2024	Erin Stone	Article: "LA has big plans to turn a landfill into a wetland, but delays are jeopardizing the project"	KPCC 89.3FM / LAist (NPR Affiliate)
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Begin Date - End Date	Interviewed/Written By (optional)	Topic	Name of Media or Publication
Jun 20, 2024	Nathalie Basha	TV interview: “California workplace safety board approves heat protections for indoor workers, excluding prisons”	Spectrum 1 News
Jul 16, 2024	Matt Simon	Media article: “The surprisingly simple way cities could save people from extreme heat”	Grist
Aug 25, 2024	Étienne De Metz	Article: “Planète: le crépuscule des palmiers de Los Angeles”	La Tribune
Sep 5, 2024	Rob Hayes	TV interview highlighting urban cooling research and symposium I organized	ABC 7 Eyewitness News
Sep 9, 2024	Clement Lau	Article about symposium I organized	Planetizen
Sep 19, 2024	Jill Webb	Article “U.S. legislators push mandates for cooling regulations in rental housing”	Prism
Sep 23, 2024	Matt Simon	Article “The secret ingredient in Biden’s climate law? City trees”	Grist
July 12, 2025	Marcos Magana	Article on my extension project: “A new art show brings L.A. climate inequities to life at Descanso Gardens”	Los Angeles Times
Jul 16, 2025 - Jul 31, 2025	Dan Birman	Featured scientist in episode "Combating Climate Change with Trees" with ~10 min of air time to share my research	PBS “Earth Focus” series

F. Publications (Bibliography)

Peer-Reviewed

B - Peer-reviewed scholarly publications

- Pierce, G., de Guzman, E., Mullin, M. (2025). Redefining expectations for urban water supply systems to fight wildfires. *Nature Water*. 3, 248–250. https://doi.org/10.1038/s44221-025-00405-y
- Sheridan, S., de Guzman, E., Eisenman, D., Sailor, D., Parfrey, J., Kalkstein, L. (2024).. Increasing tree cover and high-albedo surfaces reduces heat-related ER visits in Los Angeles, CA. *International Journal of Biometeorology*. Volume 68, 1603–1614. https://doi.org/10.1007/s00484-024-02688-4
- de Guzman, E.B., Wohldmann, E.L.,Eisenman, D.P. (2023). Cooler and Healthier: Increasing Tree Stewardship and Reducing Heat-Health Risk Using Community-Based Urban Forestry. *Sustainability*. 15:8, 6716. https://doi.org/10.3390/su15086716
- de Guzman, E.B. (2023). Evaluating the Impact of Trees on Residential Thermal Conditions in Los Angeles Using Community Science. Cities and the Environment. 16:2. September 2023. https://doi.org/10.15365/cate.2023.160208

C - Other peer-reviewed publications

None

Non Peer-Reviewed

A. Popular press articles

- Pierce, G., Porse, E., Kearns, F., de Guzman, E., Salcedo, C., et al. (2025). Water Systems and Wildfire: Understanding Capacities and Limitations. *Confluence* - California Institute for Water Resources Blog. September 29, 2025.
- de Guzman, E. Engaging audiences in water science and policy through art. *Confluence* - California Institute for Water Resources Blog. September 25, 2025.
- de Guzman, Edith; de Guzman, Jolly. (2024) What can Nature-based Solutions and sustainability professionals learn from cultural institutions such as museums and botanical gardens? The Nature of Cities Roundtable Blog. December 9, 2024.
- de Guzman, E. Growing Shade Equity, One Tree at a Time. *The Equation* - Union of Concerned Scientists Blog. May 13, 2025.

D - Technical reports and other non-reviewed articles

- de Guzman, E., Holler, L. (2025). *Engaging the Public On Water Issues Through Art*. UCLA Luskin Center for Innovation and UC Agriculture and Natural Resources.
- de Guzman, E., Pierce, G., Gorman, J., Dunlap, L., Rincon, M., Vasquez-Rodriguez, I., Cruz, V. (2025). *The 2025 Southern California Community Water Systems Atlas*. UCLA Luskin Center for Innovation and UC Agriculture and Natural Resources.
- Pierce, G., Callan, W., Blain, L., Da Luz, N., Kumpel, E.,Hernandez, A., Taneja, J., Klug, T., Harrison, G., Gorman, J., de Guzman, E. (2025). *How Have the LA Fires Affected Water Systems in LA County? An Early Overview*. UCLA Luskin Center for Innovation.

- Gibson, P., Liston, R., O'Leary, R., de Guzman, E., Yang, M., Nasr, H., Reed, C., Hellman, D., Chen, C., Yu, K. (2024). *Los Angeles Urban Forest Equity Neighborhood Strategy: Sylmar*. Los Angeles Urban Forest Equity Collective.
- Hellman, D., de Guzman, E., O'Leary, R. (2024). *Los Angeles Urban Forest Equity: Assessment, Tools, and Recommendations*.Los Angeles Urban Forest Equity Collective.
- Gilliam, R., Thomas, A., O'Leary, R.,; de Guzman, E., Yang, M., Hellman, D., Chen, C., Yu, K. (2024). *Los AngelesUrban Forest Equity Neighborhood Strategy: Central Alameda*. Los Angeles Urban Forest Equity Collective.
- de Guzman, E., Pierce, G. (2024). *Making the Most of Landmark Recycled Water Investments in Los Angeles: Technical Advisory Recommendations for the Region*. UCLA Luskin Center for Innovation, UC Agriculture and Natural Resources, and Los Angeles Waterkeeper.
- Sheridan, S., de Guzman, E.B., Sailor, D.S., Eisenman, D.P., Kalkstein, L S., Parfrey, J., Chen, Y., Koetter, M., Herrmann, D. (2023). *Rx for Hot Cities 2: Reducing Heat and ER Visits With Trees and High-albedo Surfaces in Los Angeles*. TreePeople and Los Angeles Urban Cooling Collaborative.

E - Published abstracts

- Gabbe, C.J., Pierce, G., de Guzman, E. (2025, June). Residential Heat Exposure and Health: Evidence from the American Housing Survey. In *ACSP 2025 Book of Abstracts.*
- de Guzman, E.B., Sheridan, S.C., Eisenmann, D.P., Sailor, D., Parfrey, J., Kalkstein, L.S., Shickman, K. (2024, December). From inquiry to implementation: Operationalizing climate adaptation of urban natural systems through interdisciplinary researcher-practitioner partnerships. In *AGU Fall Meeting Abstracts* (Vol. 2024, pp. H53W-06).

Goals and Objectives for the Coming Year:
For the Period October 1, 2025 - September 30, 2026

Name:	Edith de Guzman
Academic Title:	Assistant Specialist in Cooperative Extension
County/Program:	UCLA / LA County Cooperative Extension
Current Rank/Step:	Step II

Part 1. Goals and Objectives for the Coming Year (October 1, 2025 - September 30, 2026)

Specific Goals	Anticipated Collaborators	Anticipated Outcomes and Impacts
Theme 1: Water equity research and extension.		
Use **water equity needs assessment findings** to identify and **build water equity program** and projects to advance water equity.	LCI and ANR colleagues; limited-term staff research associate; NGOs, CBOs, community, and gov't stakeholders.	Using completed needs assessment complete (The 2025 Southern California Community Water System Atlas and Mapping Tool, published in Sept 2025), identify gaps that ANR/LCI program can fill to advance Human Right to Water goals for SoCal water systems that are lagging behind.
Develop collaborations with government, non-profit, community-based and private-sector partners and other stakeholders.	LA Waterkeeper, Council for Watershed Health, Heal the Bay, City and County of Los Angeles, Safe Clean Water Program, Friends of the Los Angeles River, and others.	Development projects and grants with partners to advance water equity issues.
Author 1+ **publications** and present 2+ **presentations** on water equity.	Greg Pierce(LCI); Erik Porse (CIWR); others.	Publication and dissemination of process and results of projects and activities.
Theme 2: Climate adaptation research and extension.		
Continue to develop program guided by climate adaptation needs assessment results to set program priorities. (Needs assessment in 2023-24 evaluated community, government, and nonprofit-level barriers and opportunities to advance	ShadeLA (co-led by LCI and USC Public Exchange), Los Angeles Urban Forest Equity Collective, Cal Dept of Forestry and Fire Protection, US Forest Service, City and County of Los Angeles, NGOs, CBOs, and community members.	Research and extension activities that advance understanding of urban forest equity and shade equity conditions and possible pathways to advance urban forest and heat equity (e.g., various workstreams of ShadeLA, a campaign I co-launched to bring more shade in advance of the

urban heat, shade, and urban forest equity.)		2028 Olympics, will include permitting reform as a major activity).
Develop and deepen collaborations with government, non-profit, community-based and private-sector partners and other stakeholders.	City of Los Angeles, City Plants, North East Trees, USC, LA Center for Urban Natural Resources Sustainability, and others	Development of projects and grants with partners to advance climate adaptation and urban forest equity planning and policy.
Author 1+ **publications** and present 2+ **presentations** on climate adaptation topics.	UCLA Sustainable LA Grand Challenge, California Climate Assessment co-authors, others.	Publication and dissemination of process and results of projects and activities.
Continue to develop and implement a vision and strategy for the **"Urban Greening" issue area** (one of six main areas) at the UCLA Luskin Center for Innovation.	Greg Pierce, Meg Mullin, Colleen Callahan (LCI); City and County of Los Angeles; Cal Dept of Forestry and Fire Protection; US Forest Service.	2-5 year Urban Greening strategy for UCLA Luskin Center for Innovation, including identified areas of focus, potential collaborators, and possible funding mechanisms to pursue.

Part 2. Anticipated Barriers or Obstacles in Accomplishing Your Goals and Objectives
Balancing two distinct programs (Water Equity and Climate Adaptation) can sometimes be a lot to juggle. In addition, following the January 2025 wildfires in Los Angeles, wildfire response and research around water and vegetation issues has become a major focus for me as well. While it ties into both program areas, it has been a challenge to balance what now feels like three major themes.

Part 3. Support from Supervisor(s)
I appreciate the constructive feedback and guidance that my supervisor has provided in the past and I will continue to ask questions as they come up. Two years in, I feel like I finally have a clearer vision for what my program can offer, and I know that I will need additional guidance as I get deeper into program development.

Discussed with supervisor and reviewed and approved on Sept. 24, 2025.