

The Tahoe Environmental Research Center (TERC) is dedicated to interdisciplinary research and education to advance the knowledge of aquatic and terrestrial ecosystems and their interactions within natural and developed Earth systems, and to communicate science-informed solutions worldwide.

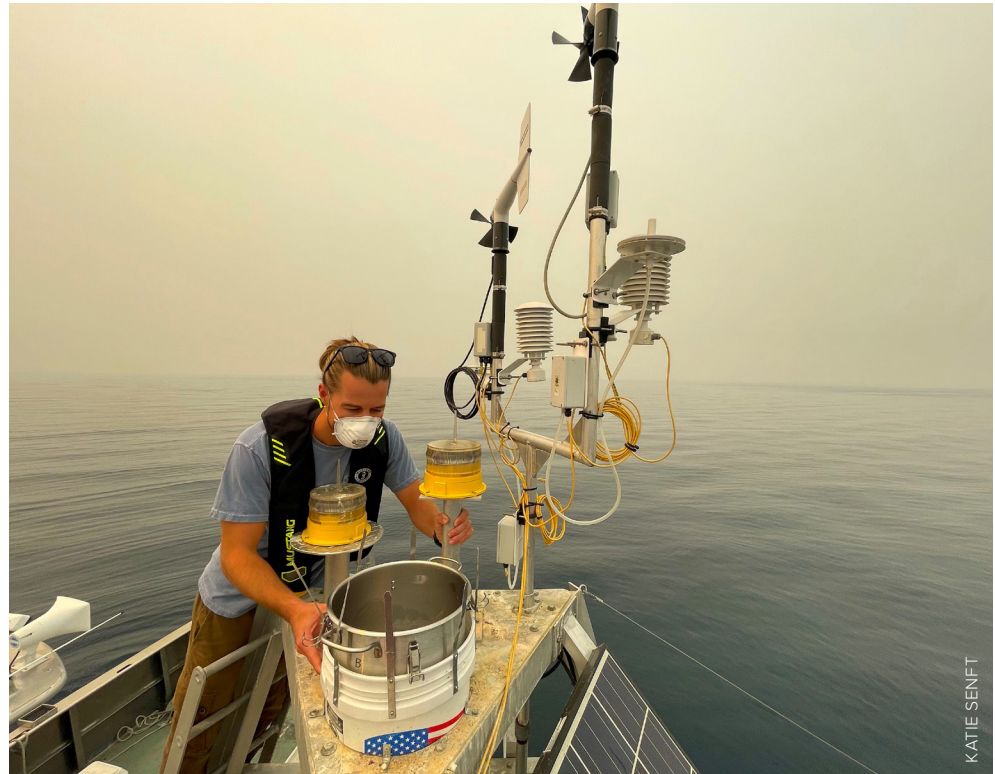
TERC educates the next generation of leaders and inspires environmental stewardship in thousands of students, community members, and visitors annually through its outreach centers.

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KATIE SENFT

TERC researcher Brandon Berry changes out the atmospheric deposition bucket on the research buoy out on Lake Tahoe in incredibly poor air quality conditions during the Caldor Fire.

## RESEARCH UPDATES

### HOW DOES WILDFIRE AFFECT LAKE TAHOE?

As wildfire activity within and around the Tahoe basin is expected to increase, TERC researchers are working to understand the effects of fire on Lake Tahoe. While various changes were observed during the most recent Caldor Fire, it is difficult to pinpoint exactly what factors caused the decrease in lake clarity we have observed.

A hypothesis being tested is that reduced

UV levels resulting from smoky skies combine with an increase in ash and nutrients entering the lake to stimulate algae growth.

Researchers are left wondering how long the impacts of fire will last. During the Caldor Fire, TERC researchers were measuring various factors affecting lake clarity, including temperature, concentrations of algae, and smoke and ash particles, while smoke and ash clouded the sky and the AQI measured over 850 (see image above).

## LETTER FROM THE DIRECTOR



**Geoffrey Schladow Ph.D., Director, UC Davis Tahoe Environmental Research Center**

2021 was an emotional rollercoaster for everyone. Hopes of conquering the pandemic and rescoping plans for the summer quickly gave way to threats of wildfire. Overnight, those distant fires became infernos that threatened not only the forests of the Tahoe Basin, but the homes, lives, and livelihoods of our co-workers, friends, and communities. The wind that initially pushed the flames our way, at the last possible hour turned, and spared us from catastrophe albeit with some damage.

Despite this, an incredible amount was achieved in 2021 through the hard work of our team and the generosity of those who support

science to save the lake.

The Charles Goldman Endowment that provides fellowships for graduate students, reached the 75% mark of its \$1,000,000 goal and is already providing much-needed student support.

Over 150,000 sugar pines seeds, genetically predisposed to survive wildfire, drought, and disease, were collected and are forming the basis of future forest resilience efforts.

A high-efficiency net was purchased and is currently being tested to improve the trawling for *Mysis* shrimp, a major step toward the ecological restoration of the lake.

A new interactive exhibit on microplastics was designed, fabricated, and installed at the Tahoe Science Center to translate the knowledge gained from our 2021 sampling of the lake for students and the public.

Our research on the impacts of wildfire smoke on lake health took on new urgency and brought together all of TERC's lake researchers with deployment of submarines, drones, buoys, boats, and helicopters. Chemists worked around the clock, focused on capturing the impacts of the summer's wildfires on the clarity of Lake Tahoe, and to understand

how to better prepare for future wildfires.

I want to thank those who served as a docent, volunteered on an advisory panel, or served as a Board member. Thank you for the ongoing and generous financial support that made what we do possible. Thank you for your personal dedication to Lake Tahoe and the efforts to restore and maintain its grandeur. Thank you for being a part of our community.

All of us at TERC hope 2022 will be a better, safer, and happier year for you, your family, and your loved ones.

## RESEARCH UPDATES *(Continued from Page 1)*

Following the Caldor Fire, the major long-term impacts on the lake are still unclear and researchers will continue monitoring these parameters. To learn more about the effect of fire on water and soil, attend the upcoming virtual lecture “[Severe Wildfire Threats to Soil and Water Resources](#)” on January 20 from 12-1 p.m. with Dr. Randy Dahlgren.

### CALDOR FIRE SPURS IMMEDIATE SCIENCE TO ACTION

Ash and charred leaves fell from the sky like blackened snowflakes as the Caldor Fire approached the basin last August. While thousands of Tahoe residents were forced to evacuate and atmospheric conditions reached beyond hazardous Air Quality Index (AQI) numbers, scientists from TERC, as part of the Tahoe Science Advisory Council (Council), were setting rapid response monitoring and data collection into motion to begin understanding the impacts of increasingly intense wildfires on the Lake Tahoe basin. TERC researchers expanded water and atmospheric monitoring to aid in a comprehensive analysis of smoke, ash, sediments, and nutrients as they directly and indirectly enter the lake. This smoke and ash study along with other Council investigations such as fuel treatment effectiveness surveys and stream monitoring enhancements to Lake Tahoe Interagency Monitoring (LTIMP), are part of ongoing efforts to evaluate the impacts of Caldor Fire. “Collectively, these studies provide important data needed to address the impact of the Caldor fire on the

watersheds and the lake,” said Ramon Naranjo, the Council’s co-chair.

This collaborative effort of scientists with agency partners has laid the groundwork for the framework that anticipates future catastrophic events with appropriate rapid response protocols in place to obtain new and necessary data.

On the day that the Caldor Fire had reached 100 percent containment, meteorologists announced that a record-breaking atmospheric river of rain and snow was headed for the thousands of acres of burned Tahoe forests left ashen with dead trees and exposed soils—further elevating the need for science—and monitoring. Even in the best of times, storms of high magnitude can cause erosion and a flush of harmful sediment and pollutants into Tahoe’s streams. These impacts were made even greater when combined with the barren, unstable slopes left in the wake of the Caldor Fire. The stream monitoring enhancements and the smoke and ash study already in place during the wildfire, is anticipated to help address ensuing questions from the storm.

“While our community was ravaged by the events of the Caldor Fire, we have an opportunity to learn from this event,” Robert Larsen, Council Program Officer said. “The Council will continue to work closely with the research community and agency partners to develop a framework that provides a well-coordinated science response to future catastrophic events.”

“The Caldor Fire devastated our community, but we continue to learn from this incident and will work with the community and agencies alike to apply this knowledge in order to better prepare and anticipate future climate driven extreme events,” Geoff Schladow, TERC director said. “As part of the Council, we look forward to continue developing this framework to create a more resilient community.”

### BURNED AREA EMERGENCY RESPONSE (BAER) ASSESSMENT REPORT

The Burned Area Emergency Response (BAER) Assessment report summary for the Caldor Fire was published in October 2021. The report was prepared by the Eldorado National Forest and Lake Tahoe Management Unit of the USDA Forest Service. The assessment covers a range of information on the Caldor Fire, including an overall description of the BAER process, descriptions of watershed condition assessments such as debris flow modeling and landslide assessment, and outlines of emergency stabilization treatments, like road and trail stabilization treatments. The report also includes data tables highlighting the condition of the post-fire watershed and maps of soil burn severity and post-fire rockfall screening. If you would like learn more about the Caldor Fire BAER Assessment, please visit: <https://inciweb.nwcg.gov/incident/article/7842/67458/Tahoe>.



## RESEARCH UPDATES



TERC Researcher Aaron Vanderpool giving away sugar pine seedlings.

planted by TERC researchers in partnership with the California Conservation Corps and the remaining 2,000 were made available to Tahoe residents.

The hope is that these remaining seedlings will be closely cared for by local homeowners who can plant on their private lands. Many Tahoe residents are excited about having a new little seedling to care for.

Carolyn Pretzer, a long-time Lake Tahoe resident and volunteer docent at TERC participated in the seedling distribution. “I am excited to help science figure out what grows in different soils and sun exposures,” said Carolyn. “Having the seedlings around also motivates me to walk the hill more often and hopefully some will mature here.”

### SUGAR PINE SEEDLING DISTRIBUTION

If you look carefully, you may notice an increase in sugar pine seedlings around your neighborhood in Lake Tahoe. You will know they are sugar pine seedlings if they have five needles per bundle.

Researchers from TERC’s Forest and Conservation Biology Lab recently distributed sugar pine seedlings to Tahoe residents from October 29-31, 2021.

These seedlings were collected from the pine cones of 100 Tahoe sugar pine trees that survived the drought and bark beetle infestation of 2012 to 2016 that ultimately killed over 129 million trees.

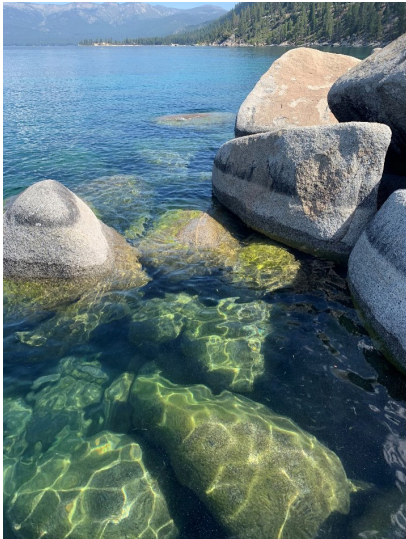
As part of a project funded by the Tahoe Fund and the California Tahoe Conservancy, over 10,000 seedlings were propagated and used to reforest the Tahoe Basin. Approximately 8,000 trees were



Camille Jensen (right) discussing sugar pine seedlings with Tahoe property owners.



## RESEARCH UPDATES



Periphyton (the algae attached to rocks) is visible in Lake Tahoe.

### THE PERIPHYTON PROBLEM

Periphyton, or benthic algae, blooms are thought to be increasing in frequency and severity in oligotrophic, clear-water lakes globally. These blooms often degrade water quality and the aesthetic value of pristine lakes. Climate change may be a potential driver of periphyton blooms through increasing water temperatures and nutrient loads globally, but the interactive effects of these two variables are not well understood.

What regulates periphyton growth? In this study, we sought to quantify the effects of temperature, nutrients, and their interaction on periphyton gross primary production (GPP), ecosystem respiration (ER), and net ecosystem production (NEP) in Lake Tahoe



Sealed periphyton incubation chambers were used to measure growth.

as well as how these effects vary seasonally.

The results of these experiments will inform managers how to best combat emerging trends in periphyton blooms in oligotrophic lakes globally and lead to better understanding of whole-ecosystem processes in aquatic ecosystems.

The main findings and implications a TERC research study “Factors Regulating nearshore Periphyton Blooms in Lake Tahoe” conducted by Nick Framsted, Dr. Steven Sadro, and Dr. Geoff Schladow,

they determined the following:

- Temperature seems to be the strongest driver of periphyton gross primary production (GPP), with nutrients having the strongest effect on ecosystem respiration (ER).
- ER rates have a larger stimulatory response (7% increase for every 1°C) to temperature than GPP rates (3% increase for every 1°C), suggesting that warming may shift the metabolic balance in periphyton communities.
- Projected increases in nearshore water temperatures in Lake Tahoe of 3.7°C under climate change scenarios could correspond to an 11% increase in periphyton GPP, and a 26% increase in ER, and a 3.4% increase in biomass.



UC Davis TERC researchers snorkel to collect periphyton from the nearshore around Lake Tahoe.

## RESEARCH UPDATES

### TERC ON EVERY CONTINENT:

#### ANTARCTIC RESEARCH IN A PANDEMIC

As melt rates of polar ice shelves continue to accelerate, the need for fundamental Antarctic science is becoming increasingly critical.

UC Davis TERC faculty member Professor Alex Forrest has been collaboratively working with a number of research groups from around the world led by the Korean Polar Research Institute (KOPRI) since 2013.

Building on the successes of 2017 and 2019 where the TERC team deployed a buoyancy-driven autonomous underwater robotic submarine under the Nansen ice shelf in Antarctica, the aim this year is to go to the outfall channel of Thwaites glacier in West Antarctica. Thwaites system is an order of magnitude bigger than the Nansen ice shelf and is thought to play a keystone role for regional change and global sea level rise (<https://theconversation.com/antarcticas-doomsday-glacier-how-its-collapse-could-trigger-global-floods-and-swallow-islands-173940>).

While the challenges and risks associated with Antarctic work

is always high, the complications of navigating preparation in a pandemic have been numerous.

For the last six months, the team has been testing equipment in Lake Tahoe and training for different scenarios. These scenarios will vary with ice-cover when the glider arrives on site.

Due to last minute delays on equipment arrival and personnel changes, many of the groups have had to pool resources. One of the results of this is that the UC Davis team are now having to train people at the furthest end of the Earth to run scientific missions remotely. This only seems normal two years into a global pandemic.

The objective of the mission is to be able to collect temperature, salinity and dissolved oxygen data from the submarine throughout the target area. In addition, the team will be using shipborne instruments to concurrently measure similar properties. Finally, another team, being led by New York University will be drilling a borehole through the ice shelf in an effort to make measurements through nearly 3,000 feet of ice.

Together, hopes are high these observations below, in front of and around the ice shelf will provide potential insights on glacier melt and allow us to make better predictions of how quickly our home planet is changing.



**UC Davis TERC Autonomous Glider Storm Petrel being prepared for deployment in the Ross Sea, Antarctica (2017).**

## EDUCATION AND OUTREACH



The UC Davis Tahoe Science Center participates in the national Museum Assessment Program (MAP).

### TAHOE SCIENCE CENTER PARTICIPATES IN THE MUSEUM ASSESSMENT PROGRAM (MAP)

Led by TERC education and outreach director Heather Segale and program manager Alison Toy, with help from our former AmeriCorps members Baylee Goodwin, Anne Graham, and Elise Matera, the TERC education team has been working through the American Alliance of Museums (AAM) Museum Assessment Program (MAP) over the past year. To participate in this program, TERC received a local grant from the Tahoe Truckee Community Foundation and leveraged that grant to obtain a federal grant, which supported the year-long MAP.

This one-year process of self-assessment, institutional activities, and consultative peer review included

a site visit with AAM museum expert. Julie Johnson, a senior level executive with over 30 years of museum experience, visited the Tahoe Science Center on October 7-8, 2021. We also reestablished the Tahoe Science Center Advisory Board and held concurrent meetings on Oct. 6 and 8, 2021. Our participation in the MAP has given us access to a wealth of information and expertise as well as provided us with: greater alignment of our activities, mission, and resources; analysis of our strengths, weaknesses, and opportunities; a prioritized roadmap for improving operations and meeting standards; and a plan for the continuous cycle of improvement for the Tahoe Science Center.

The MAP Peer Review provided input and lent credibility to our strategic planning process. By helping us focus on our core mission and target our work to our most important task of providing science education to our community, we can move forward more strategically and with the backing of experts in the museum field.

The Museum Assessment Program (MAP) is a National Leadership Grant program funded by the Office of Museum Services (OMS) within the federal Institute of Museum and Library Services (IMLS). This grant program is managed by the American Alliance of Museums and helps small and mid-sized museums ensure the highest standards in collections care, governance, institutional planning, education and interpretation, and community engagement.

### MUSEUM ASSESSMENT PROGRAM GOALS & OBJECTIVES FOR THE UC DAVIS TAHOE SCIENCE CENTER

- Increase engagement for tours; improve interpretation and docent training in interpretation to improve visitor engagement
- Staffing ideas to reduce overload; streamline programs
- Elevate importance of science education among community and TERC
- Improve communication between research and education teams to get the science up-to-date and disseminated at the appropriate time
- Determine how to best to meet our diversity goals and make our science information more accessible to our broader community
- Organize and utilize new Tahoe Science Center Advisory Board
- Strategic planning for Tahoe Science Center
- Future exhibit planning (includes updated video exhibits, Lake Tahoe in Depth touchscreen updates, Underwater Lake Tahoe exhibit, Augmented Reality “Save Our Snow,” Augmented Reality “Find Tahoe Tessie” app, Science on a Sphere Explorer exhibit, and more)



## EDUCATION AND OUTREACH

### SAVE OUR SNOW INSTAGRAM FILTER COMING SOON

TERC is currently working in collaboration with contractor BrandXR to develop two unique, interactive Augmented Reality (AR) experiences for the IMLS grant-funded project titled “Understanding Change.”

The first, set to launch during winter 2022, is the “Save Our Snow” Instagram filter. This is the first educational filter that will show how skiers and snowboarders will be impacted by climate change.

### DOES RECORD-BREAKING SNOWFALL DISPROVE CLIMATE CHANGE?

No! Big snowstorms can actually be caused by climate change! You only need two ingredients for a big snowstorm: 1) temperatures below freezing, and 2) moisture to make the snow. Even in a warming world, it can still get below freezing during the winter. But warmer air can hold more moisture. So warmer temperatures (as long as they're still below 32°F) can actually mean a greater chance of getting a really big snowstorm.

And there is a big difference between weather and climate. Weather refers to short term atmospheric conditions while climate is the weather of a specific region averaged over a long period of time. Climate change refers to long-term changes.

TERC researchers utilized Earth System Models (ESMs) to develop projections of expected snowpack in the future. The model results were downscaled to the Lake Tahoe area and applied to the Tahoe Watershed Model.

The “Save Our Snow” filter illustrates the significant loss of local snowpack based on historical data recorded since 1954 from the California Department of Water Resources. The filter also highlights predictions of a potentially snowless future and includes an urgent call to action.

The filter provides a series of AR images that place the user into a winter sports

environment and progresses through the decades from 1960 to 2050. Flashy decade-specific outfits are used to engage users in a fun way while starting the more serious conversation of how climate change is reducing the annual Tahoe snowpack. This filter is intended to inspire skiers and snowboarders to take immediate action to mitigate the loss of snow in the Sierra Nevada.

Suggested actions include sharing a post to start a conversation about climate change impacts to the snowpack and snow-based sports, learning more at <https://tahoe.ucdavis.edu/saveoursnow>, and pledging to reduce personal carbon emissions by one ton annually.

TERC recently received a grant from The Center for Behavior and Climate to create a locally-based carbon calculator to help users determine the easiest ways to reduce their personal carbon emissions.

Keep an eye out for “Save Our Snow” coming soon!



The graphic features a background image of a ski lift against a snowy mountain. At the top left, it says "POW protect our watersheds" and "Tahoe Environmental Research Center". A central circular logo contains the text "Save Our Snow". Below this is the hashtag "#SAVEOURSNOW" in large, bold letters. Underneath the hashtag is the text "Use your social influence to start a conversation." To the left, a pink speech bubble says "Use our new Instagram filter." with a QR code below it. To the right, under the heading "Here are ways you can help:", there are three white boxes: 1) "Say something. Post, Repost, Share." with an Instagram icon; 2) "Reduce your carbon emissions by only 1 ton per year." with a green leaf icon; 3) "Learn more: tahoe.ucdavis.edu/saveoursnow" with a question mark icon.

Coming soon... the “Save Our Snow” Instagram Filter and educational campaign.



## EDUCATION AND OUTREACH

### WELCOME NEW TERC AMERICORPS MEMBERS

TERC welcomes two new AmeriCorps members Jesse Landesman and Noah Shapiro. They were selected from a broad applicant pool and will both be Education Program Associates through September 2022.

Jessica (Jesse) Landesman was born and raised in sunny southern California. She developed a love for the outdoors at a young age when her parents would take their three kids camping and hiking all over California, Utah, and Colorado. She graduated from UC Davis with a degree in Environmental Science, focusing on soils and biogeochemistry,



**TERC's newest AmeriCorps members Jesse Landesman and Noah Shapiro will be working with the TERC education team through September 2022.**

and a double minor in Psychology and Global and International Studies. At UC Davis, she conducted research on the use of enhanced silicate weathering to sequester atmospheric carbon into the soil. After graduating, she worked as an environmental scientist at CalRecycle.

At TERC, Jesse will be handling field trips, special events, and database management. Jesse loves to knit, hike, forage for fungi, and laugh.

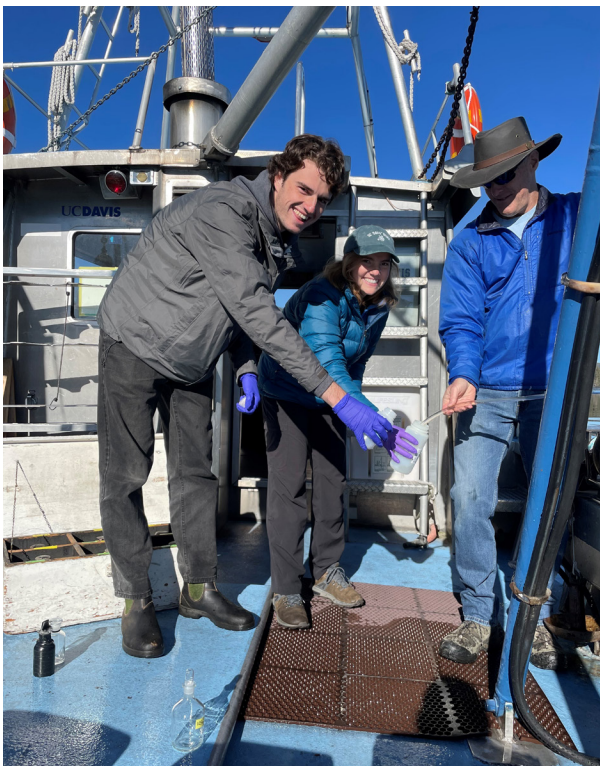
Noah Shapiro grew up in Portland, Oregon, where he gained an appreciation for the environment by spending time in city parks and on camping trips with his family.

Today he loves to bike, hike, and kayak, and looks forward to exploring new snow-related activities while in Tahoe. Noah is a recent graduate of Pomona College, where he studied Media Studies and Environmental Analysis. He gained experience in outdoor education by working at an environmental summer camp and his college outdoor club.

At TERC, Noah will focus primarily on marketing, social media, docent coordination, and writing assignments. He is grateful for the opportunity to serve the Tahoe community and connect with others dedicated to preserving the environment throughout his term.

Both Jesse and Noah will be experiencing (and hopefully enjoying) living in the mountains and playing in the snow for the first time.

If you stop by the Tahoe Science Center, please take the time to welcome both Jesse and Noah.



**AmeriCorps members Noah Shapiro and Jesse Landesman aboard the TERC Research Vessel with Captain Brant Allen.**

## TERC TEAM UPDATES

### FROM FUNGI TO FOREST HEALTH: GETTING TO KNOW CAMILLE JENSEN

Camille Jensen's path to UC Davis Tahoe Environmental Research Center has been an eventful, winding road. Her experience in the environmental field began when she worked as an undergraduate research assistant in a mycology lab at the University of Minnesota. She then moved to Alaska to study spruce trees killed by bark beetles, and then to New York City where she worked with the USDA Animal and Plant Health Inspection Service. Eventually she returned to academia to research sudden oak

disease and complete her Masters in Plant Pathology at UC Davis.

Currently, Camille is working on several projects at TERC including a newer reforestation project to determine what conditions are best to replant. Parameters under investigation include location, time, seeds or seedlings and common garden studies, where the researchers collect seeds from trees found in various locations and plant seeds all in one place to observe differences in their phenotypes.

What Camille loves most about her work is the places it has brought her to. "Everything I want to do or explore is right outside my door", Camille says.



Camille Jensen from TERC's Forest and Conservation Biology Lab.

### STAYING LOCAL WITH AARON VANDERPOOL

Aaron Vanderpool has the rare distinction among TERC staff of being a lifelong Tahoe local. He grew up in Incline Village and spent his time snowboarding at Diamond Peak and exploring the Tahoe area. His outdoorsy upbringing and wide-ranging interests eventually led Aaron to study Environmental Science at Sierra Nevada University. He happened to enroll in a weekend forestry course taught by TERC Associate Director Patrica Maloney and, as they say, the rest is history.

TERC had been on Aaron's radar for a long time. As someone passionate about the Lake Tahoe ecosystem and always curious to learn more and

share that knowledge with others, TERC felt like the perfect career opportunity.

After completing his undergraduate coursework in 2017, Aaron joined the TERC team. He spends most of his time working in the forestry lab, although recently he has spent more time focusing on aquatic research. His favorite project at TERC is the long-term forest health monitoring, including seed collection and cone conservation. These long-term plots allow the team to track greenhouse gas emissions, fuels, fires, drought conditions, and measure water efficiency.

Looking to the future, Aaron is excited for TERC to continue to build out its terrestrial research and focus on the interaction of various systems.



Aaron Vanderpool from TERC's Forest and Conservation Biology Lab.

UC DAVIS TERC BY THE NUMBERS

**6** DECADES OF MONITORING LAKE HEALTH



OVER ONE-HUNDRED FIFTY



GRADUATE STUDENTS

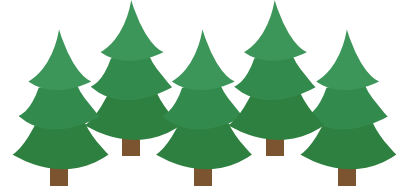
OVER

**600**

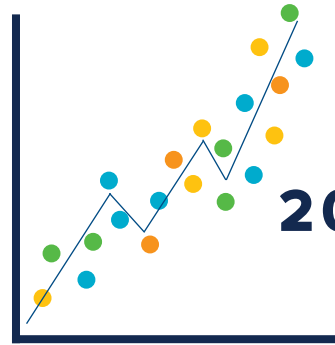


SCIENTIFIC PUBLICATIONS

**84**



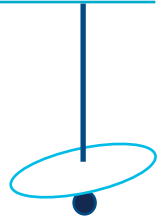
MONITORED FOREST PLOTS ARE HELPING US UNDERSTAND FOREST RESILIENCE



ADVANCED TECHNOLOGIES COLLECTING **20 MILLION** DATA POINTS ANNUALLY

**THOUSANDS**

OF CLARITY AND WATER QUALITY SAMPLES MEASURED

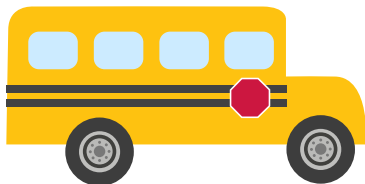


**EIGHTY**

SCHOOL FIELD TRIPS

**TWO THOUSAND**

STUDENTS REACHED ANNUALLY



**164,000**



PEOPLE REACHED BY EDUCATIONAL PROGRAMS

2 SCIENCE CENTERS AROUND



Tahoe City, CA



Incline Village, NV

**LAKE TAHOE**



## LEARN MORE

### TERC TALK SCIENCE NEWS

Sign up for the “TERC Talk” email newsletter for interesting science content that is relevant to Lake Tahoe. These humorous, fun, and educational emails will be in your inbox approximately weekly.

Visit <https://tahoe.ucdavis.edu/stay-connected> to “Sign Up for TERC News and Events.”



Sign up to receive the TERC Talk digital newsletter by visiting our website at <https://tahoe.ucdavis.edu/stay-connected>

### SUPPORTING THE TAHOE SCIENCE CENTER

We all love Tahoe. How do we protect this on-of-a-kind treasure and its valuable presence?

UC Davis TERC knows how. They encourage students, residents, and visitors to love Lake Tahoe by showing them how we can all protect it, so we won't love it to death. At the UC Davis Tahoe Science Center, we educate our guests about what is unique about Lake Tahoe, the environmental issues we face, and how science and research can provide solutions. Environmental science literacy means heightened awareness, expanded knowledge transformed attitudes and increased stewardship actions that help protect this precious resource.

We engage people of all ages with

topics that include water quality, lake clarity, erosion, microplastic pollution, climate change, aquatic invasive species, and their implications for Lake Tahoe. Visitors get excited about the experience at the science center. Kids imagine science careers as a

future possibility. The science we teach inspires curiosity about our lake and the watershed around it. When everyone becomes more interested and active in the environmental science of Lake Tahoe, everyone wins!



Students learn about watersheds by playing in the “Shaping Watersheds” augmented reality sandbox.

## GIVING TO THE TAHOE ENVIRONMENTAL RESEARCH CENTER

**Private Support** is critical to continuing the Tahoe Environmental Research Center's legacy of groundbreaking work in restoring and sustaining Lake Tahoe. Gifts at every level support research, education and outreach, and give the flexibility to address emerging needs and opportunities. Every gift makes a difference and there are many ways to give. Thank you!

- YES**, I wish to support the Tahoe Environmental Research Center with the gift amount shown below.
- Please contact me about how I can make a deferred or estate gift to UC Davis.
- I wish this gift to remain anonymous.

Mail to: UC Davis Tahoe Environmental Research Center  
Watershed Sciences Building  
One Shields Avenue  
Davis, CA 95616-8527

All gifts are tax deductible. UC Davis is committed to providing excellent donor stewardship. To learn more about the University's gift policies, please visit <http://giving.ucdavis.edu/ways-to-give/disclosures>.

### Science Sustainer

There are two easy options for giving:

- 1) Make a secure online gift at <https://give.ucdavis.edu/TERC>
- 2) Fill out the information below and mail with a check payable to UC Regents

### Enclosed is my tax-deductible contribution.

Please make checks payable to UC Regents.

Name: \_\_\_\_\_

Spouse/Partner: \_\_\_\_\_

Address: \_\_\_\_\_

City, State, Zip: \_\_\_\_\_

Phone: \_\_\_\_\_

Gift Amount: \_\_\_\_\_

## MAKE A GIFT TAX-FREE WITH AN IRA

- Do you want to support TERC's science at Lake Tahoe?
- Are you over 70 ½?
- Do you need all of your required minimum distribution from retirement assets?

» **Consider a gift via an IRA.** Visit <http://plannedgiving.ucdavis.edu/ira-charitable-rollover> for more details.

### UPCOMING EVENTS

**Jan. 20, 2022:** Wildfire Impacts on Soil, with Randy Dahlgren

**Feb. 17:** Environmental, social, and economic resilience/Envision Tahoe, with Heidi Hill Drum and Bill Mueller

**March 31:** Extreme Drought Consequences, with Dr. David Dralle

**April 14:** Living Snow Project: Adventure-based

community science to understand life in the snowpack, with Dr. Robin Kodner, Dr. Alison Murray, and Meghan Collins

**May 9-15:** Circumnavigate Lake Tahoe with TERC

**June:** Docent Training (dates TBD)

**July–August:** Lake Tahoe Science Camps

**For more information:** <https://tahoe.ucdavis.edu/events/>