



UNESCO CHAIR DEDODT MAY 2025 ISSUE









CONTENTS

4-5	 Mission Statement and Objectives
6-9	 Projects
10-11	 Congratulations from UNESCO Collegues
12-13	 First Unesco Chair Executive Board Meeting
14-15	 Commitee On Ai and Education Meeting
6-27	 EMS Training in the Dominican Republic
8-47	 Collecting Water in Peru
8-49	 Thai Educators Visit UVU
50	Contact information



MISSION STATEMENT

The UNESCO Chair at UVU on AI and Environmental Stewardship for Sustainable Futures advances the integration of artificial intelligence and sustainability in education to improve learning, empower faculty, and support student-led initiatives. Through collaboration with Global South partners and K–12 institutions, the Chair promotes environmental stewardship, intercultural dialogue, and the development of resilient, inclusive education systems that prepare learners for a sustainable future.

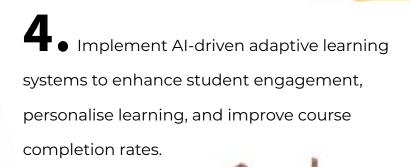
OBJECTIVES

1 • Integrate sustainability education into curricula, support student-led initiatives, and foster K-12 partnerships for environmental stewardship.

RIBERTANN O O

2 • Foster global partnerships with Global South institutions for intercultural dialogue, collaborative research, and enriching exchange programmes.

3 • Provide faculty with AI tools and sustainability training to enhance teaching and drive innovation in education.



5 • Cooperate closely with UNESCO, other UNESCO Chairs and UNITWIN Networks on relevant programmes and activities.



INTRODUCTION TO OUR PROJECTS

CAMBODIA

and hygiene education.

The Cambodia Sanitation Project, a
partnership between Utah Valley University
and the doTERRA Healing Hands Foundation,
improves health and dignity in rural Cambodia by
providing sustainable sanitation, clean water access,



CAMEROON

This project brings together UNESCO

Chairs from the University of Buea and

Utah Valley University to advance inclusive

education through AI, sustainability, and global

collaboration, fostering the Most Enabling Learning

Environments for all students.

CHINA

In collaboration with scholars in Beijing,
this project explores human-computer
collaborative teaching by integrating AI into
education, optimizing task distribution, and enhancing
personalized learning through adaptive technologies.



DOMINICAN REPUBLIC

The Dominican Republic EMS project, led by Utah

Valley University faculty and students, aims to provide

clinical training for DR and UVU students, deliver

essential medical education to local communities,

and promote cultural exchange through global

healthcare collaboration.



education

PHILIPPINES

Utah Valley University is collaborating
with Philippine institutions to enhance Al
education and research through national assessments,
specialized training, and student outreach programs.

PERU

Utah Valley University and partner institutions in Peru and Bolivia are collaborating on the Lago Titicaca/
Utah Lake Project to address critical water quality challenges through multidisciplinary research, education, and sustainable environmental solutions.



6

THAILAND

This education project between UVU and
Atlantic Education Schools in Thailand fosters
academic exchange, joint research, and
cultural understanding through presentations,
collaborative discussions, and planning for
student and faculty exchange programs.



UKRAINE

Utah Valley University and Khmelnytskyi Humanity and Pedagogic Academy in Ukraine are partnering to advance research on PTSD and mental health, foster academic and cultural exchange, and develop collaborative initiatives that promote resilience, healing, and innovation amid ongoing conflict.

CURRENT PROJECTS

INDONESIA

(UVU Occupational Therapy) – Dr. Lynn Farley

CHINA

Beijing Normal University (AI – UVU School of Education, Dr. Bing Han & UVU Behavioral Science Dr. Yi Yin)

UKRAINE

(University Khmelnytskyi Humanity and Pedagogic Academy) UVU – Dpt. of Psychology and Social Work, Dr. Acacia Overono)

PHILIPPINES

(Far Eastern University) – UVU Information Systems Dr. Carl Canlas

CAMEROON

(University of Buea) – UVU School of Education



UNESCO CHAIR ON AI AND ENVIRONMENTAL STEWARDSHIPS FOR SUSTAINABLE FUTURES

"Congratulations on the awarding of your UNESCO Chair at UVU!

The establishment of a UNESCO Chair is rare event and will have significant impacts your university, the United States, and our global partners. Chairs go through an incredibly rigorous review process, and your success is a testament to the excellence achieved through your work".

Mark Brennan UNESCO Chair on Global Citizenship for Sustainable Peace through Youth and **Community Engagement** The Pennsylvania State University

Robert Chaskin UNESCO Chair on Inclusive Urbanism University of Chicago

Phyllis Magrab **UNESCO** Chair on Sustainable Development, Early Childhood, **Inclusive Education** and Gender

Georgetown University

Shannon Biscoff

Patrick Ray

University of Cincinnati

Perdue University



e are so grateful for the many messages of congratulations from UNESCO Chair collegues around the country. Receiving the UNESCO Chair Award provides UVU with increased opportunities to connect with influential universities in the country and aroud the world.

UNESCO Chair on Environmental University of Arizona History

Steven Shankman UNESCO Chair in Transcultural Studies, Interreligious Dialogue, and Peace University of Oregon

UNESCO at UVU



FIRST UNESCO CHAIR EXECUTIVE BOARD MEETING

March 26, 2025

The first Executive Board meeting of the UVU UNESCO Chair on AI and Environmental Stewardships for Sustainable Futures marked a key moment in launching academic projects focused on sustainability and innovation. Faculty members from various colleges within the university gathered to propose project ideas aligned with their research fields, fostering interdisciplinary collaboration. This meeting set the stage for initiatives that tackle both local and global challenges related to AI and environmental stewardship.

and the observed as a result, two subcommittees were formed: one on AI and Education, and the other on Social and Environmental Sciences. These groups will work on projects with global partners and universities, leveraging funding and promoting collaboration. The UNESCO Chair serves as a platform to connect UVU faculty with researchers worldwide, and the board looks forward to the exciting possibilities ahead.

EXECUTIVE BOARD



Dr. Baldomero Lago
UNESCO CHAIR, DIRECTOR
CHIEF INTERNATIONAL OFFICER
GLOBAL ENGAGEMENT



UNESCO CHAIR, ASSOCIATE DIRECTOR THE WOODBURY SCHOOL OF BUSINESS ECONOMICS

Dr. Maritza Sotomayor

Dr. Carl Canlas

Dr. Kevin McCarthy



Dr. Adam Ogurlu
SCHOOL OF EDUCATION
ELEMENTARY EDUCATION



SMITH COLLEGE OF ENGINEERING AND TECHNOLOGY INFORMATION SYSTEMS



Dr. Hilary Hungerford
COLLEGE OF SCIENCE
EARTH SCIENCE



COLLEGE OF HUMANITIES AND SOCIAL SCIENCES BEHAVIORAL AND SOCIAL SCIENCES



Or. Cheung Chou SCHOOL OF THE ARTS DEPARTMENT OF MUSIC



COLLEGE OF HEALTH AND PUBLIC SERVICES



Or. Kathren Brown
ACADEMIC AFFAIRS
DEPUTY PROVOST



Waise McLane
UNESCO CHAIR ADMINISTRATIVE
ASSISTANT

12 2025

UNESCO CHAIR COMMITEE ON AIAND EDUCATION MEETING



he Committee on AI and Education explored innovative ways to integrate AI into educational tools, emphasizing the need to equip teachers with the skills to model AI use for future leaders. The meeting welcomed

14

members Yi Yin, Carl Canlas, and Adam Ogurlu, representing diverse academic institutions. Key discussions centered on the UNESCO CHAIR's objectives, including sustainability education, student-led initiatives, and fostering

global partnerships with Global South institutions for research and exchange. Ongoing projects address AI's impact on higher education, digital equity, and AI-driven teaching tools. The committee also highlighted ethical AI, responsible implementation, and potential collaborations with international partners.

AI AND EDUCATION COMMITEE MEMBERS

Adam Ogurlu - Assistant Professor - Elementary Education

Armen Ilikchyan - Associate Professor - Technology Management

Bing Han - Assistant Professor - Elementary Education

Carl Canlas - Assistant Professor - Information Systems

Emily Hedrick - Associate Professor - Web Design and Development

Krista Ruggles - Associate Professor - Elementary Education STEM

Laurie Toro - Director - Faculty Development

Majid Memari - Assistant Professor - Computer Science

Matt North - Professor - Information Systems

Rachael Hutchings - Professional in Residence - Strategic Management

Susan Thackeray - Associate Professor - Technology Management

Yi Yin - Assistant Professor - Social & Behavioral Sciences

unesco at uvu 15





KEY OBJECTIVES

The Dominican Republic EMS project has been in development for four years, initiated through Jeannette German's professional connections with the Dominican Republic. After extensive planning and coordination, the team recently conducted a site visit to solidify partnerships and assess training needs. Their objectives included three key goals:

- Providing US students with clinical experiences that count toward their required hours and skills development.
- Delivering service projects that include CPR and medical training for local communities.
- Offering cultural immersion opportunities to enrich students' understanding of global healthcare practices.





CPR TRAINING AND COMMUNITY ENGAGEMENT



ne of the most impactful aspects of the trip was the team's CPR training sessions. Over 240 individuals received instruction, including 172 university students interested in Basic Life Support (BLS) training, 22 hotel employees in La Romana, and dental, nursing, and physical therapy students at Universidad Católica Santo Domingo.

hile official certification was not possible due to the unexpectedly high number of participants and the nature of the training, many students expressed a strong desire to pursue further certification in the



his demanding schedule, he took an entire day to personally drive the UVU team to small neighboring towns, markets, and local sights. His warmth and generosity left a lasting impression on the team, as did his willingness to fully engage in the experience—even participating in some of the CPR training sessions himself. His enthusiasm and hands-on approach reflected

the welcoming spirit of Universidad Católica and the Dominican hosts, whose kindness and support were invaluable to the success of the trip. The UVU team remains deeply grateful for their time, generosity, and commitment to fostering global collaboration.

future. Their enthusiasm was remarkable, with many staying an extra 1.5 to 2 hours beyond the scheduled training time to continue learning. Several students even shared their excitement with the university's Rector, expressing how much they enjoyed the sessions and eagerly asking when the UVU team would return to teach again. Universidad Católica provided professional photography and warm hospitality, further cementing the partnership between UVU and the local institutions.

FRIENDSHIP AND COLLABORATION

special highlight of the trip was the extraordinary hospitality of the university's Rector. As both a religious leader who holds mass and fulfills ecclesiastical duties and the equivalent of a university president, his time is highly valuable. Despite



A dditionally, the collaboration between UVU and Universidad Católica Santo Domingo was strengthened through shared experiences and mutual appreciation. The exchange of Emergency Services and Global Engagement items, such as UVU swag, became a fun and symbolic gesture of the growing friendship between the two institutions. Faculty, staff, and students on both sides expressed gratitude for the opportunity to connect. This sense of camaraderie and mutual respect reinforces a partnership that will continue to flourish through future projects and training initiatives.



Pictured from left to right:

- · Ing. José Armando Tavarez Rodríguez Vice President of Research Engagement and Quality Assurance
- · Dilenia Lizardo Barrera Director of Research
- · Omar Díaz Dean of Health Sciences
- · Inmaculada Estévez Director of the School of Nursing
- · Inmaculada Torres Academic Vice President
- · Francisco Hernández Vice President of Administration and Finance
- · Rev. José Luis De La Cruz President
- · Jeannette Vargas German UVU EMS Lab Manager
- · Ben Williams UVU EMS Adjunct
- · Steven D. Allred Paramedic Program Director / Professor EMS





he UVU team secured arrangements with two hospitals to facilitate clinical experiences for their students. Padre Virgini Hospital, a public institution, approved UVU student participation with the support of a key hospital decision-maker. Meanwhile, CEDIMAT, a private hospital with English-speaking staff and American-style operations, became an ideal training site for students focusing on airway management and labor/ delivery. Although language barriers posed some challenges, students engaged in skill-based learning rather than full clinical rotations. Additionally, hospital physicians expressed interest in developing pre-hospital care systems with UVU's guidance, opening doors for future collaborations.





Training session with hotel employees

EXPANDING CPR TRAINING TO LA ROMANA'S HOTEL EMPLOYEES

aking the most of their time in the Dominican Republic, the UVU team also provided CPR training sessions for hotel employees at the resort where they were staying in La Romana. The hotel manager and employees were incredibly enthusiastic about the opportunity to learn basic life-saving skills, despite the fact that attendance was neither required nor compensated. Their eagerness to participate highlighted the widespread interest in emergency preparedness and further emphasized the importance of these training initiatives. The UVU team was impressed by the employees' commitment to learning and their engagement in the sessions, further reinforcing the value of expanding CPR education across different community sectors.

GOALS MOVING FORWARD

eyond immediate training and hospital partnerships, UVU's involvement in the Dominican Republic holds long-term potential. Future initiatives may include supporting Dominican institutions in strengthening their EMS education programs, conducting research collaborations to enhance pre-hospital care practices, and continuing to develop professional development opportunities for both UVU and Dominican students. The Basic Spanish Medical Assessment Guide, created by Jeannette Vargas German, has been incredibly well-received by participants. Its availability in both Spanish and English has made it an invaluable resource for students and professionals alike.



Jeannette German at the Universidad Católica Santo Domingo

Short-term goals include bringing more students to the Dominican Republic, donating medical supplies, and providing ongoing CPR and medical training. In the long term, the focus will shift to developing and enhancing the Dominican EMS program, improving ambulance services, and further advancing pre-hospital care strategies.



Several students even shared their excitement with the university's Rector, expressing how much they enjoyed the sessions and eagerly asking when the UVU team would return to teach again.

he Dominican Republic EMS project has already proven to be a meaningful and impactful initiative, successfully fostering hands-on learning, cross-cultural exchange, and medical training. This achievement would not have been possible without the dedication and leadership of faculty members and enthusiasm of the participating students. Deep gratitude is also extended to the partners in the Dominican Republic, including Universidad Católica Santo Domingo, its Rector, and hospital staff, whose hospitality and commitment to collaboration made this experience truly special. As UVU looks ahead, there is great anticipation for further training opportunities, and the ongoing development of emergency medical services in the Dominican Republic.



COLLECTING WATER IN

March 26-30, 2025

ecently, UVU faculty and researchers traveled to Peru to conduct water sampling for two projects being done on water quality. On the western side of Lima, the municipalities of Santa Eulalia, Chosica, and Trujillo are facing significant challenges due to excessive water, resulting in flooding. Researchers, collaborating through UVU, are actively working to address these issues. Flooding can have widespread impacts on various aspects of the community, such as horticulture, local water sources, and infrastructure. These researchers are studying the effects and developing solutions to help mitigate the consequences of such water-related problems.

n another project on the eastern side of Peru, Lake Titicaca is facing similar water quality issues as those of Lake Utah. To address these challenges, collaborators are working together to develop solutions. The focus of the project includes analyzing the contents of the water, such as the presence of heavy metals, microplastics, pollution, and algae blooms. Researchers are exploring methods for harvesting the algae to reduce its impact on the ecosystem. Their findings and experience collaborating with fellow universities was deeply influential for future studies on these water sources.

UVU RESEARCHERS

Speaking at the Congress of the Republic of Peru on water issues

DR. SALLY ROCKS

Chemist Microplastics





DR. EDDY CADET

Earth Scientist
Trace metals



Biologist Residual and fecal waters





PARTICIPATING UNIVERSITIES

Universidad Nacional de Educación
Universidad Nacional de Huancavelica
Universidad Nacional de Trujillo
Universidad Nacional del Altiplano

Universidad Nacional del Santa











Chosica

Santa Eulalia

Trujillo

Puno

MUNICIPALITIES

30 31



March 26, 2025

puring their visit to Peru, researchers from Utah Valley University (UVU) met with the Congress of Peru to discuss their water testing project, which examines the quality of Lake Titicaca, the Rímac River, and the springs of surrounding municipalities. The event provided an opportunity for government officials and community members to engage in a Q&A session with the researchers, fostering dialogue on water

safety and environmental sustainability.

We are grateful for the support of the

Peruvian government in our efforts

to promote cleaner water for local

communities.



The session was broadcast live and can be found on YouTube

MEETING AT THE NEU



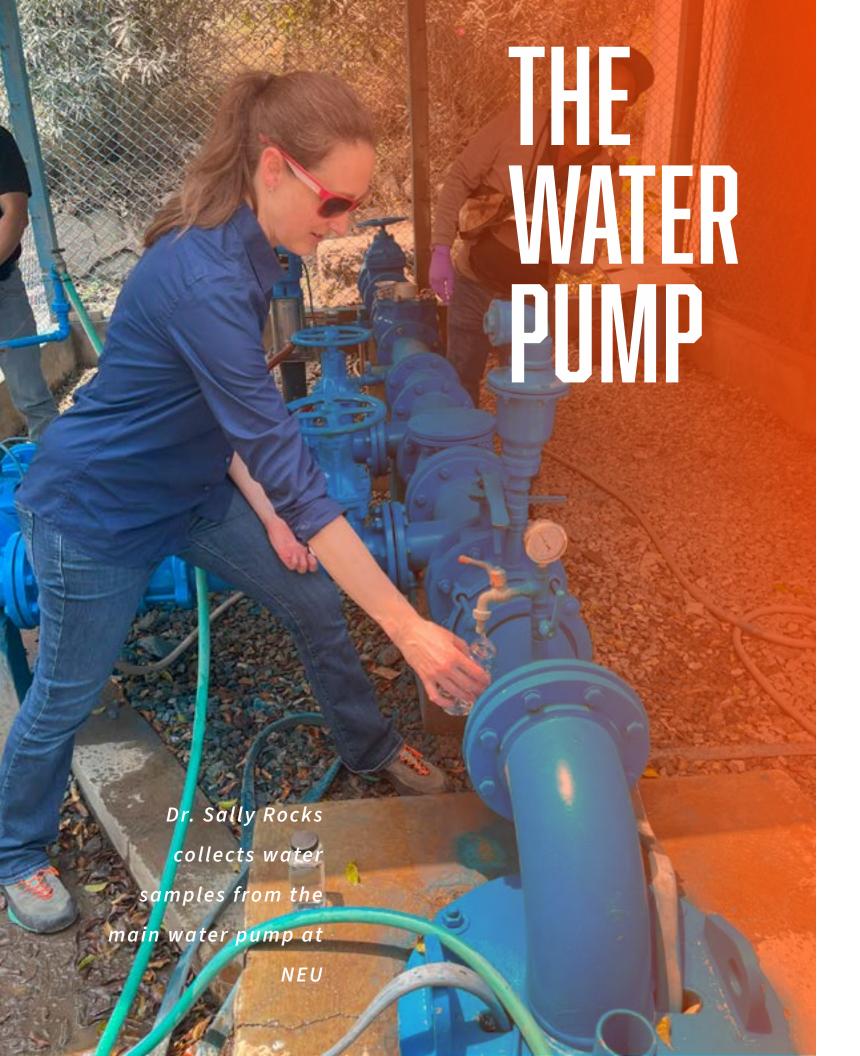
Nacional de Educación (NEU).

Researchers had the honor of meeting with the Rector Dr.

Lida Salcedos, President of the National Rectors Association of Peru. We are grateful for the collaboration that took place with this university.



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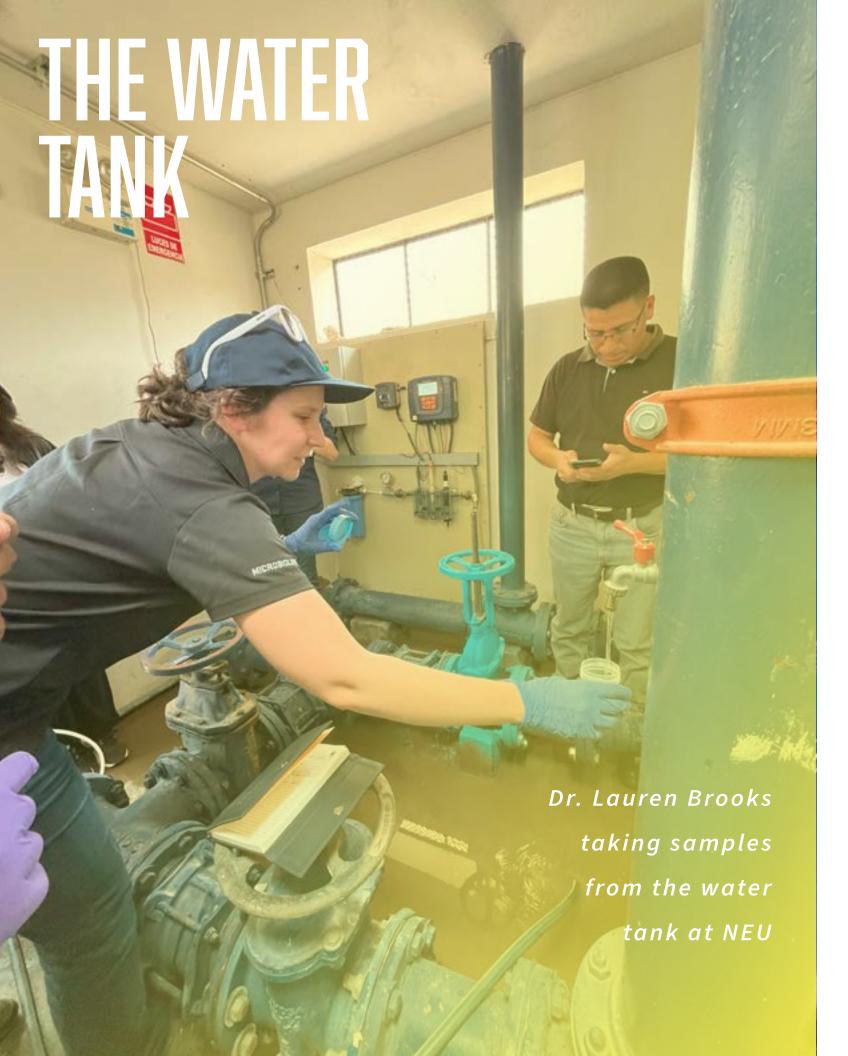
MICROPLASTICS

Research Group II, led by Dr. Sally Rocks of UVU and Peruvian scholars Mg.

Augusto Manrique Ruiz (UNH) and Dr. Jorge Vera Alvarado (UNT), is tackling microplastic pollution in freshwater systems. The project aims to measure and identify tiny plastic particles—called microplastics—in rivers, reservoirs, drinking water, and freshwater fish across several regions of Peru.

Iarger plastic waste or are used in products like cosmetics and cleaning agents. Though invisible to the naked eye, they are increasingly being found in our food, water, and even air. This project seeks to understand how widespread the problem is by testing both natural water sources and household tap water, comparing results to see how much plastic may be entering the water during treatment and transport. Researchers will also examine freshwater fish to determine how microplastics make their way into the human food chain.

his work is especially important because the health impacts of microplastics are still largely unknown, though early research suggests potential risks to digestive, hormonal, and immune systems. By identifying how and where microplastics are entering Peruvian water supplies, the research team is laying the groundwork for future solutions. This study marks an essential first step in safeguarding water quality and public health—not just for Peru, but for similar regions facing the hidden threat of plastic pollution.

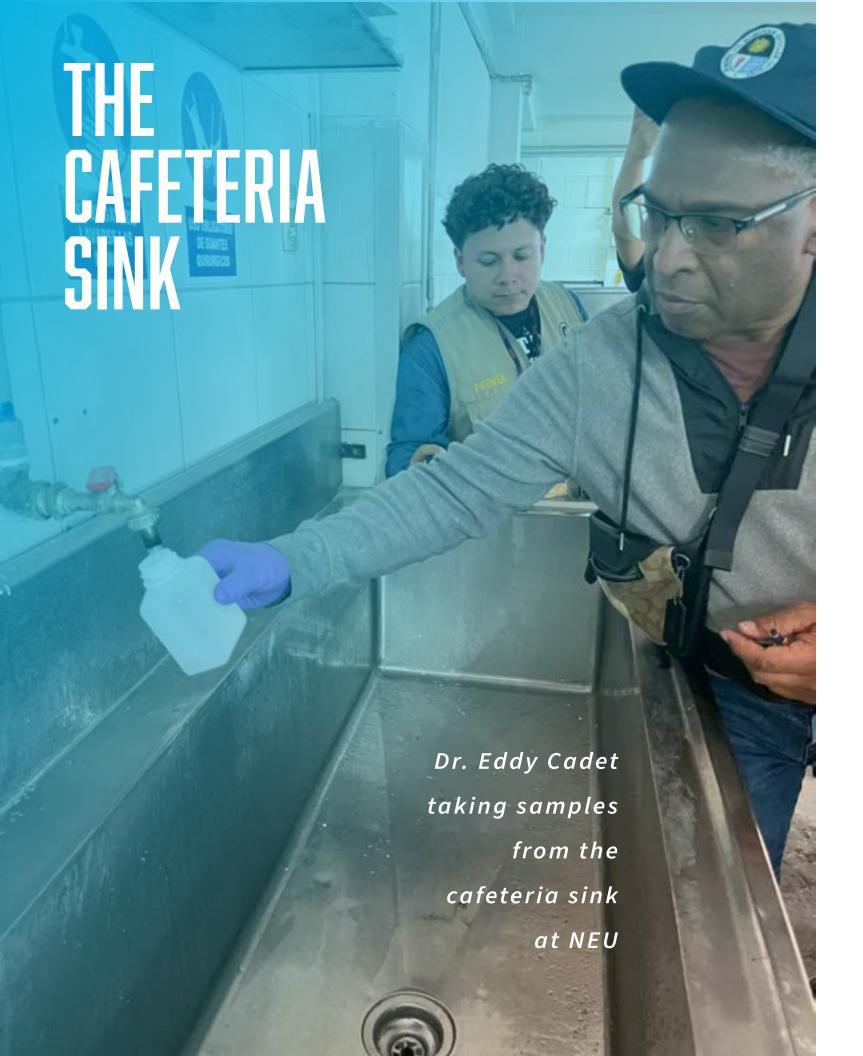


MICROBIOLOGY

Research group III, led by Dr. Lauren Brooks, Dr. Weihong Wang, Dr. Alessandro Zanazzi, at UVU, alongside Dra. Lurdes Tuesta Collantes (UNT) and Dr. Guillermo Atencía Guerra (UNE), investigates how pollutants—including excess nutrients and human or animal waste—are affecting microbial communities and ecosystem health in Peruvian lakes.

his research tackles pressing questions: How contaminated are these waters? Where is the fecal pollution coming from? Are dangerous pathogens or antibiotic-resistant bacteria present? The team is also studying harmful algal blooms—rapid overgrowths of algae that can produce toxins dangerous to humans, wildlife, and water supplies. Understanding what organisms are behind these blooms, what toxins they produce, and what eventually causes them to die off could lead to better prevention and treatment strategies.

icrobiology plays a key role in both environmental and public health. By identifying how pollution, heavy metals, and even microplastics influence microbial life in water systems, the team is uncovering how small-scale changes can have large-scale impacts. This collaborative project also provides valuable opportunities for student research and opens doors to comparing microbial dynamics in Peru to similar ecosystems like Utah Lake.



HEAVY METALS

ed by Dr. Eddy Cadet at UVU and Peruvian colleagues Dr. Dante Salas and Dr. Rómulo Loayza, the team is focusing on metals such as mercury (Hg), lead (Pb), arsenic (As), and cadmium (Cd), among others. Their research examines how these metals accumulate in the environment—especially in water, sediment, and fish species like rainbow trout and ispi.

he project is particularly concerned with bioaccumulation and biomagnification, which refer to how toxic substances build up in organisms over time and increase in concentration higher up the food chain. This means that even small traces of metals in water can become more concentrated in fish—and ultimately affect human populations that rely on these fish as a food source. The team is also working to identify the sources of pollution, with particular attention to mining activity in the region.

both humans and wildlife. Contaminants like lead and mercury can cause neurological damage, especially in children, while arsenic and cadmium have been linked to cancer and other chronic diseases. By studying the spread and concentration of these pollutants, the research group aims to inform both public health policy and environmental protections in Peru—and contribute to global understanding of water contamination challenges.

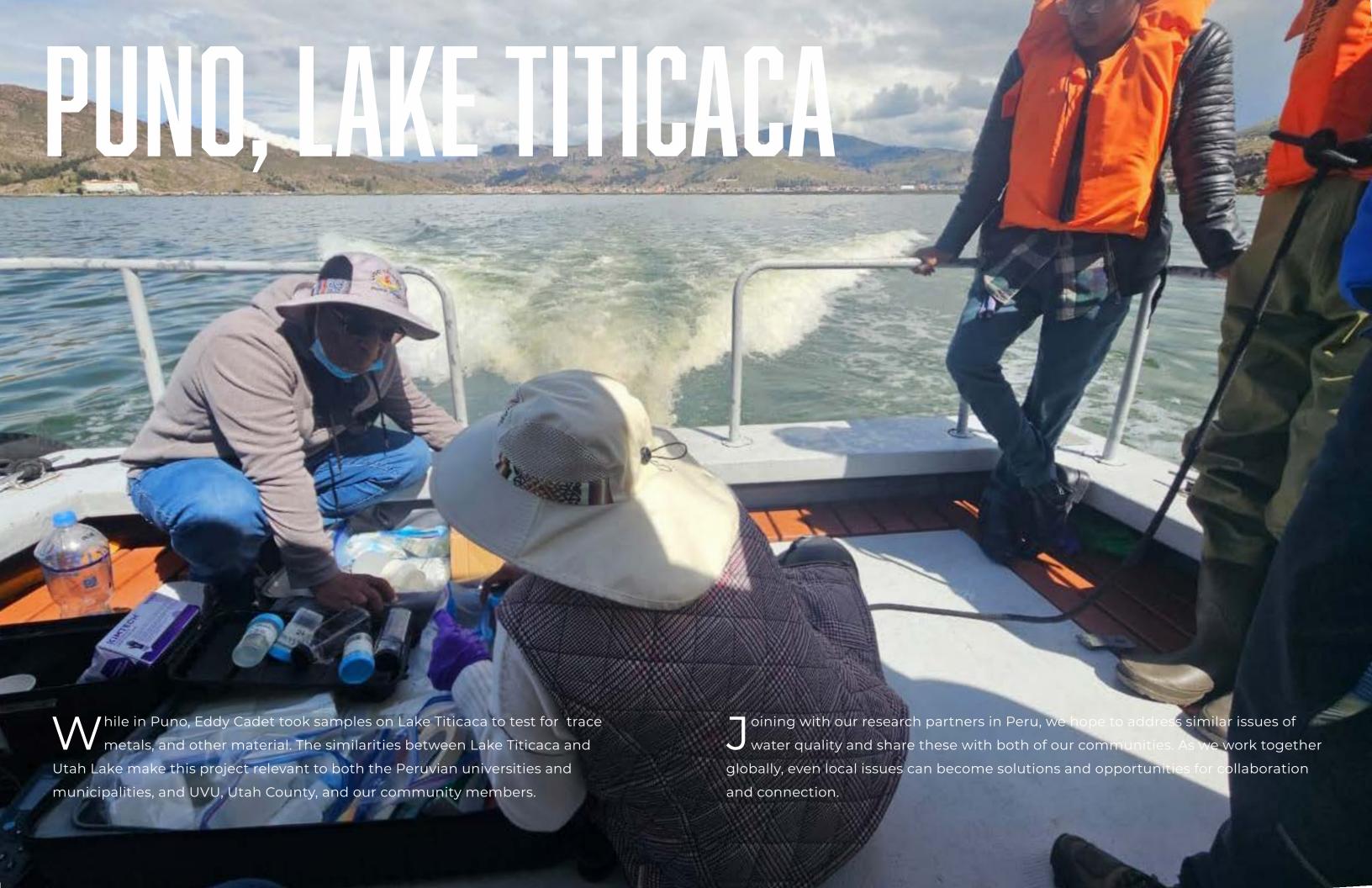




Samples were also taken from a residential area from a community member's sink.

UVU UNESCO
Chair Director,
Baldomero Lago,
who helped
orchestrate the
project, assisted
in water sampling
at an Elementary
School in Santa
Eulalia.









VU was honored to welcome two distinguished visitors from Thailand's Atlantic
Education group: Nakharin Sormad,
Global Ambassador and Education
Counselor, and Makhsat Saniyaz,
Head of Educational Technologies.
Representing three international schools in Bangkok, their weeklong visit from April 5–12, 2025, focused



on academic exchange, crosscultural learning, and exploring future collaboration between UVU and Thai institutions.

uring their time on campus, the visitors toured UVU facilities. engaged in discussions with faculty, and presented on the Thai education system to students and professors in the School of Education. Their presentations sparked meaningful dialogue on educational challenges, technology integration, and curriculum development. Meetings with UVU's International Affairs Office and School of Education leadership laid the groundwork for potential faculty and student exchange programs, as well as joint research in teacher training and global education practices.

his visit marked a significant step in building a lasting partnership rooted in shared

values and a commitment to educational excellence. Beyond academic collaboration, the visit also fostered cultural exchange and mutual understanding between Thailand and the UVU community. Both institutions look forward to future opportunities that will broaden horizons for students and educators on both sides of the globe.



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UVU