



# DISCOVERY WITH IMPACT

UNLV research drives real-world change. Our faculty and students turn discovery into action—advancing innovation, solving community challenges, and shaping a better future for Nevada and beyond.

DECEMBER 2025

# UNLV research is tackling critical challenges head-on

At the University of Nevada, Las Vegas, research isn't just about discovery — it's about impact.

Every day, UNLV's faculty, students, and partners work together to solve real-world challenges and make life better in Nevada and around the world.

As one of the nation's top-tier R1 research universities, UNLV is recognized for excellence in innovation, creativity, and scholarship. In 2024, the university earned \$134 million in research awards and invested \$116 million in research activity — a 15 percent increase in just one year.

Behind those numbers are stories of people transforming ideas into action.

UNLV's researchers are tackling the biggest questions of our time — building sustainable energy systems, advancing health equity, exploring the frontiers of artificial intelligence, and understanding the universe — from quantum science to the geology of Mars.

Across every college, collaboration drives progress. Engineers are creating clean-energy and water technologies. Scientists are uncovering genetic insights that improve precision medicine. Public health and integrated health sciences researchers are reshaping how we prevent disease, heal, and thrive. Business, hospitality, liberal arts, and urban affairs scholars are strengthening communities, driving economic growth, and elevating quality of life.

Together, these stories capture the heart of UNLV — innovation powered by purpose.

Through curiosity, creativity, and collaboration, UNLV is shaping solutions that make our state, our nation, and our world stronger, more resilient, and more connected.



A handwritten signature in black ink that reads "David W. Hatchett". The signature is fluid and cursive, with a long horizontal stroke at the end.

David W. Hatchett, PhD  
Vice President for Research



**\$134M**

FY24

**IN RESEARCH AWARDS RECEIVED**



**\$116M**

FY24

**IN RESEARCH EXPENDITURES**

15.4% increase from 2023 - 2024



**89%**

FY20 - FY24

**INCREASE IN RESEARCH  
GRANT SUBMISSIONS**

Yielding a 129% increase in award monies from agencies such as the National Science Foundation and the National Institutes of Health.

## **REBELS INNOVATE AND CREATE RESEARCH AND CREATIVE ACTIVITY**

University of Nevada, Las Vegas (UNLV) has seen monumental growth in research, thanks to measures to better support faculty and student researchers.

### **R1: UNLV Retains Place Among Nation's Top Research Universities**

UNLV has retained its status as one of the nation's highest-performing research universities, earning recognition as a Research 1 (R1) institution by the Carnegie Foundation and the American Council on Education (ACE) for 2025.

The R1 designation – which UNLV first achieved in 2018 and retained in 2021 – is the gold standard for university research metrics and reaffirms the university's commitment to excellence in research, scholarship, and creative activity.

“Year after year, our researchers are making a real impact, both here in Nevada and around the world,” said Chris L. Heavey, UNLV interim president. “This latest R1 designation is a testament to their continued hard work and dedication. As we build on this momentum, our priority is to ensure they have the resources, collaboration opportunities, and institutional support needed to take their research even further.”

**UNLV** | RESEARCH



# UNLV research is tackling critical challenges head-on



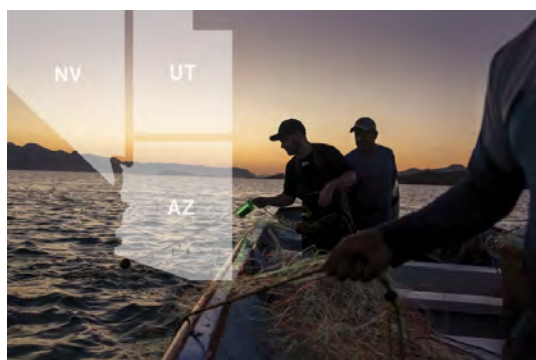
## GREAT MINDS TEAM UP

What happens when scholars join forces to study solutions to societal issues like addictions, the fast-emerging use of AI, and racial equity and social justice? We'll make progress faster and on a bigger scale, thanks to the UNLV Interdisciplinary Research Development Areas initiative. With the big-picture in mind, UNLV has begun hiring groups of faculty who can come at topics from different disciplines to collaborate with existing faculty and community leaders toward one common goal: improving the quality of life for all.



## ALZHEIMER'S DRUG DEVELOPMENT PIPELINE

Professor Jeffrey Cummings' highly regarded 2024 annual report on the state of clinical trials was featured in a journal of the Alzheimer's Association. Cummings is co-director for two Alzheimer's observatories - one for drug development and another for biomarkers - within UNLV's Department of Brain Health. These are the only observatories of their kind in the world and they collect and disseminate data that keeps policy makers, healthcare systems, and patients in the know and offers hope in the continued push toward a cure.



## REGIONAL CLIMATE INNOVATION PARTNERSHIP

Persistent challenges associated with limited water resources and increasing development pressures demand innovative regional cooperation. UNLV is working in partnership with Arizona State University, the Desert Research Institute, the University of Utah, and Maricopa Community College to foster collaboration among academic, industry, and government stakeholders. This [National Science Foundation \(NSF\) Southwest Sustainability Innovation Engine \(SWSIE\)](#) alliance aims to accelerate the development and deployment of critical technologies that support long-term resilience, economic opportunity, and sustainable growth across the arid Southwest.





**TOP 31**  
**TOP 77**

RANKED 31ST AMONG THE TOP 100 UNDERGRADUATE ONLINE BUSINESS PROGRAMS AND 77TH AMONG THE TOP 100 PART-TIME MBA PROGRAMS BY U.S. NEWS & WORLD REPORT.



**\$900,000+**

ANNUAL SCHOLARSHIP SUPPORT TO BUSINESS STUDENTS.



**5,000+**

TEN FACULTY MEMBERS HAVE OVER 5,000 GOOGLE SCHOLAR CITATIONS

## UNLV LEE BUSINESS SCHOOL SHAPING WHAT'S NEXT

At UNLV Lee Business School, our research tackles real-world challenges that shape the future of business, policy, and community impact. Faculty and students collaborate to transform ideas into innovative solutions that drive economic growth, organizational excellence, and social responsibility—locally and globally.

### Faculty Research: Transforming Society Locally and Globally

Meaningful impacts in four areas:

- **Policy and Governance:** Informing regulations that promote economic resilience and responsible business.
- **Innovation and Growth:** Advancing entrepreneurship, productivity, and job creation.
- **Organizational Excellence:** Enhancing efficiency, inclusivity, and employee well-being.
- **Ethics and Sustainability:** Guiding firms to balance profitability with social and environmental responsibility.
- **Educating Future Business Leaders:** Integrating research into teaching to prepare globally minded, ethical decision-makers.

Faculty research work transforms business and society locally and worldwide.

### Research Centers Driving Local, National, and Global Impact

Lee Business School's four donor-funded research centers connect academic insight with real-world application, addressing business, economic, and social challenges locally and globally.

- **Center for Business and Economic Research:** Provides forecasts, market analyses, and policy models that guide decisions for government, business, and community leaders.
- **Lied Center for Real Estate:** Delivers data-driven insights on housing markets, development, and investment to inform growth and affordability strategies.
- **Keresetsi Center for Insurance and Risk Management:** Advances research on financial, environmental, and cybersecurity risks to strengthen resilience and policy frameworks.
- **Troesh Center for Entrepreneurship and Innovation:** Fuels innovation and small-business success through research, mentorship, and hands-on programs.

Together, these centers position Lee Business School as a catalyst for data-informed decision-making that shapes industries, policy, and communities worldwide.

**UNLV** | LEE  
BUSINESS SCHOOL

# UNLV Business: Transform Society



## ADVANCING FINANCIAL LITERACY FOR INDIVIDUALS AND COMMUNITY

**Daniel Chi's** research connects financial health to holistic student wellness through projects like The Impact of College Personal Finance Education, a multi-campus study including Stanford. The project is among the largest of its kind and is designed to generate clear evidence that can shape curriculum, student services, and policy across higher education. By equipping students with knowledge about credit, loans, savings, and investing, his research fosters responsible financial decisions, reduces debt, and narrows economic disparities. Financially literate individuals also strengthen local economies and promote market stability.

## ADVANCING GLOBAL UNDERSTANDING OF IMMIGRATION AND INVESTMENT

**Yong Li's** research provides critical insights into how immigration influences foreign investment and economic development. His studies reveal that strong local ethnic communities attract foreign firms from their home countries, fostering job creation and regional growth. Additionally, his work shows that multinational companies benefit from co-locating with compatriot firms, easing their adaptation to local business environments. These findings guide policymakers in attracting foreign investment to Nevada and beyond, while helping local companies expand internationally and strengthen global business networks.

## ADVANCING SUSTAINABLE RESOURCE POLICY

**Nicholas Irwin's** research sheds light on the complex relationship between renewable energy adoption and resource use. His studies reveal that households installing solar panels often increase their water consumption, creating additional stress on already scarce water supplies in the Western and Southwestern United States. By uncovering these unintended consequences, his work helps policymakers design more effective and sustainable renewable energy strategies that balance environmental goals with water conservation. His insights inform local, national, and global discussions on sustainable resource management and climate policy.



## PROMOTING RESPONSIBLE MARKETING AND CONSUMER WELL-BEING

**Marla Royné Stafford's** research advances understanding of responsible gambling and ethical marketing practices. Her work explores gamblers' lived experiences to develop effective, responsible gambling messages that support consumer protection and public health. She also investigates advertising issues related to violence, health, and the emerging cannabis industry, emphasizing social responsibility and regulatory awareness. Her research informs policymakers, businesses, and advocacy groups locally and globally, guiding ethical communication strategies that promote consumer well-being and encourage responsible engagement with high-risk products and industries.

## FOSTERING PUBLIC TRUST IN SUSTAINABLE INNOVATION

**Han-fen Hu's** research advances community acceptance of innovative technologies vital to addressing water scarcity and sustainability challenges. Focusing on potable water reuse and other emerging solutions, her interdisciplinary work reveals how online communication, public trust, knowledge, and political ideology shape attitudes toward new technologies. By identifying ways to overcome psychological barriers such as the "yuck factor," she provides actionable insights for policymakers, utilities, and community leaders. Her research strengthens public engagement and supports resilient water and energy systems in Southern Nevada, across the nation, and globally.

## REDEFINING THE UNDERSTANDING OF CORPORATE FRAUD

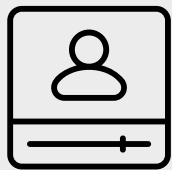
**Erin Hamilton's** research applies psychological theory to challenge conventional views of corporate fraud as primarily acts of commission. Her work reveals that managers frequently engage in fraud by omission, such as failing to record expenses or disclose critical information, because such actions are less visible and are often mistaken for oversight rather than intent. By uncovering the cognitive and behavioral drivers behind omission-based fraud, their studies provide valuable insights for auditors, regulators, and organizations seeking to enhance detection and strengthen oversight.



Visit [unlv.edu/business](https://unlv.edu/business)

**UNLV** | LEE  
BUSINESS SCHOOL





**20+**

FACULTY RESEARCH MENTORS



**4,000  
Sq. Ft.**

LAB SPACE



**360**

PRE-DOCTORAL STUDENTS

## SHAPING THE FUTURE OF ORAL HEALTH FOR NEVADA

The UNLV School of Dental Medicine is dedicated to improving the oral and overall health of Nevadans through education, innovation, and community engagement. Our programs promote student-led research, integrate fundamental science with clinical training, and provide hands-on patient care experiences in our teaching clinics and outreach settings. Through these opportunities, students and faculty alike develop the skills, critical thinking, and lifelong curiosity necessary to advance the dental profession.

### CREATING NEW KNOWLEDGE IN ORAL HEALTH SCIENCES

UNLV SDM researchers are contributing to national and international advancements in oral health through studies that explore disease mechanisms, diagnostic innovations, and evidence-based clinical solutions. Faculty not only lead research initiatives but also mentor residents and students in projects that often result in peer-reviewed publications and conference presentations.

### AREAS OF RESEARCH EXCELLENCE

- Periodontal Disease
- Infection & Inflammation
- Oral Cancer
- Biomaterials
- Clinical Research
- Salivary Diagnostics
- Stem Cells
- Temporomandibular Joint Disorders

### DISCOVER MORE

Learn how UNLV School of Dental Medicine is shaping the future of oral health through research, collaboration, and innovation. Visit [unlv.edu/dental/research](http://unlv.edu/dental/research) to explore current projects, publications, and opportunities to get involved.

✉ [jeffrey.ebersole@unlv.edu](mailto:jeffrey.ebersole@unlv.edu)

**UNLV** | SCHOOL OF DENTAL MEDICINE





## PRECISION HEALTHCARE FOR ORAL HEALTH

UNLV researchers are exploring how salivary biomarkers and oral microbiome data can help detect and manage periodontal disease, especially in patients with systemic conditions like diabetes.

### Research Efforts Include:

- Analysis of the oral microbiome associated with gum disease
- Identification of salivary biomarkers to detect risk, onset, progression, and treatment response
- Development of a patent-pending salivary diagnostic panel

**Goal:** To advance precision dentistry through early detection and personalized treatment approaches that integrate oral and systemic health.

Recent findings published in *Diagnostics* (2025) by UNLV researchers demonstrated that a salivary biomarker panel could identify periodontitis in Type 2 diabetic patients with 95% diagnostic accuracy. [[PubMed ID](#)]

## HUMAN PAPILLOMA VIRUS AND ORAL CANCER



Oral cancer is the sixth most common cancer worldwide, with higher rates in males and minority populations. Late diagnosis often leads to poor 5-year survival rate of only 25-45%. Historically linked to smoking and tobacco use, but in recent years, cases related to human papillomavirus (HPV) infection have been rising.

### Research Efforts Include:

- Understanding HPV-induced changes in oral cancer cell biology
- HPV human epidemiological studies & distribution of HPV serovars in Nevada dental populations
- Investigating microRNAs (miRNA) that regulate the adverse biology of oral cancer cells and identifying potential intervention targets

**Goal:** To identify local HPV risk factors and molecular markers that improve early detection, prevention, and treatment of HPV-related oral cancers.

In a study published in *Translational Cancer Research* (2020), UNLV researchers found that miR-720 expression in oral squamous cell carcinoma correlated strongly with increased tumor cell proliferation and DNA methylation activity. [[Oasis UNLV's Repository for Research](#)]

## BIOLOGY OF DENTAL CARIES



Dental caries remains one of the most common chronic infections, affecting people across the lifespan but especially children. The disease destroys tooth structure, causes pain, and can lead to systemic infections and significant treatment costs.

### Research Efforts Include:

- Mapping the distribution and demographics of disease-associated microorganisms
- Measuring *Selenomonas noxia*, *Scardovia wiggsiae*, and *Slackia exigua* concentrations in Nevada pediatric and adult populations
- Evaluating the impact of orthodontic treatment on oral microbial composition

**Goal:** To define microbial patterns that contribute to caries risk and translate these insights into improved prevention and education strategies for patients of all ages.

Oral Prevalence of *Selenomonas noxia* Differs Among Orthodontic Patients Compared to Non-Orthodontic Controls ([Hodges K et al., 2024/25, UNLV](#)) – Found that both pediatric and adult orthodontic patients had a significantly higher prevalence of *Selenomonas noxia* compared to non-orthodontic controls.



**381%**

ABSOLUTE FIVE-YEAR GROWTH  
IN GRANT FUNDING



**\$34M**

TOTAL FUNDING FOR FY25



**56**

FUNDED FEDERAL AND STATE  
AWARDS IN FY25

## EDUCATION & MENTAL HEALTH LEARNING AT ALL AGES AND ALL STAGES

We address contemporary challenges by advancing equity and access through innovative research, community collaborations, and high quality education and mental health programs.

Our vibrant research culture is built on strong collaborations with local, state, national, and international partners. Our faculty, staff, and students leading sources of knowledge and creators of ground-breaking education and behavioral health models. Our research and scholarship continually shapes policy and practice across our areas of expertise.

### Areas of Research Excellence

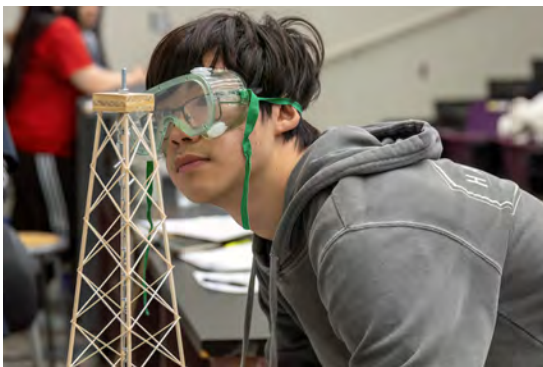
- Educator preparation, retention and professional development
- STEM education and workforce development
- Early childhood education
- Equal opportunity and inclusion
- Mental health and wellness
- Educational technology and data-driven interventions
- Community and family engagement
- Inclusive curriculum development and implementation
- Education policy and program evaluation

# Exploring critical questions. Addressing community needs.



## EDUCATOR TRAINING AND DEVELOPMENT

Our research explores how teacher training, classroom practices, and learning environments affect student success. Faculty study different paths into teaching for special education, STEM, early childhood, and multilingual classrooms. We're also learning how teachers develop key skills like curriculum planning, evidence-based teaching, and data use. Thanks to our funded projects, we're looking at how students learn, build academic identities, and benefit from supports that help them grow.



## WORKFORCE DEVELOPMENT

We're strengthening Nevada's education and human services workforce by improving teacher recruitment, apprenticeships, and scholarship-supported training. Faculty and students are creating teaching methods that prepare learners of all ages for STEM careers. Other projects study career-technical pathways, policy impacts, and alignment with workforce needs. Together, these efforts expand access to quality training, boost success in STEM and technical fields, and align education with job opportunities that drive economic success.



## MENTAL AND BEHAVIORAL HEALTH

Our research expands access to mental and behavioral health support for children, youth, and families. Projects focus on school-based services, community-embedded programs, and interventions for children with developmental or high-intensity needs. Faculty study early childhood access, caregiver-child relationships, and how families, providers, and policies affect well-being. Other efforts explore community school models, rural outreach, and public health programs for childhood wellness. We're strengthening and support for the mental health needs in our schools and communities statewide.

Visit [unlv.edu/education](https://unlv.edu/education)

**UNLV** | COLLEGE OF  
EDUCATION





**60%**

ENGINEERING ALUMNI WORK IN NEVADA AND CONTRIBUTE TO THE STATE'S ECONOMY



**13M**

ENGINEERING FACULTY RESEARCH AWARDS — PROJECTED TO REACH \$25M BY 2030



**90**

FACULTY EDUCATING OVER 4,000 UNDERGRADUATE AND GRADUATE STUDENTS

## UNLV ENGINEERING SHAPING WHAT'S NEXT

At the UNLV Howard R. Hughes College of Engineering, our research transforms ideas into technologies that shape communities, industries, and the world.

### Driving Innovation through Research and Collaboration

The College of Engineering is committed to advancing key technologies that serve Nevada, the Southwest region, and the broader global community. UNLV Engineering is expanding knowledge across critical engineering fields and delivering solutions that benefit society in areas like AI, big data, water resources, robotics and more.

Our research currently centers on six core areas:

- Big Data
- Biomedical Engineering
- Energy
- Environmental Engineering and Water Resources
- National Security
- Transportation

We take pride in our strong partnerships with industry and government agencies, which enhance both our research impact and real-world application. Our research centers and laboratories serve as the primary engines for discovery, innovation, and technology transfer — fostering interdisciplinary collaboration and translating research into practical solutions.

# UNLV cutting-edge research is rising to meet the moment



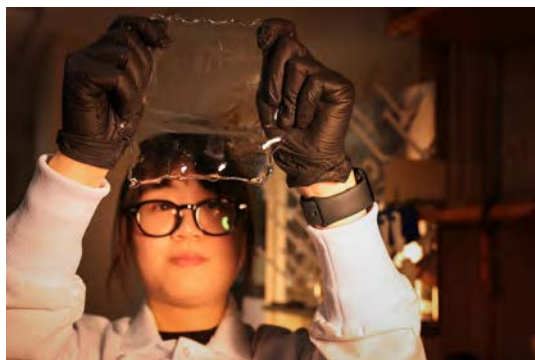
## POWERING THE FUTURE OF CLEAN ENERGY

UNLV is now one of just nine universities worldwide equipped with the NuScale Power Energy Exploration (E2) Center, shared by Dr. Alexander Barzilov. This real-world nuclear power plant simulator places students directly in the role of control room operators, providing immersive, hands-on training. By preparing graduates with the skills and confidence to lead in the nuclear energy section, UNLV and the state of Nevada are helping shape the future of clean, safe, and reliable energy through advanced nuclear technology.



## REDEFINING HEALTH & SECURITY THROUGH AI

UNLV researchers are harnessing Artificial Intelligence (AI) to address critical health and security challenges. Dr. Jorge Fonseca Casho's team analyzes clinical trial data biomarkers to improve early Alzheimer's diagnosis — supporting timely intervention, better outcomes, and reduced long-term care costs. Dr. Mingon Kang's team advances evidential deep learning, enhancing predictive accuracy while providing reliable evidence to guide AI decisions. These innovations have far-reaching implications — from improving patient care to strengthening national security through better crisis prediction and response.



## INNOVATING FOR WATER RESILIENCE

WAVR Technologies, Inc., a UNLV startup, is developing innovative devices that capture water vapor from the air for both commercial and personal use. While atmospheric water harvesting isn't new, Dr. Jeremy Cho and his research team are taking a novel approach: using a hydrogel membrane embedded with salts that attract water vapor. Their design separates the device into two functional layers, a strategy that may help reduce energy consumption. As the Southwest faces an ongoing water crisis, this startup could play a vital role in advancing sustainable water solutions.

Visit [unlv.edu/engineering](https://unlv.edu/engineering)

**UNLV** | HOWARD R. HUGHES  
COLLEGE OF ENGINEERING

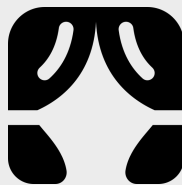




More than 5 million performance attendees.



More than 9,000 degrees awarded.



Six performance venues, eight dedicated gallery spaces, and three specialized arts libraries.

The Universidad Autónoma Chihuahua in Chihuahua, Mexico collaboration with the UNLV College of Fine Arts features public murals representing friendship created and displayed in Las Vegas and Chihuahua simultaneously. The project, led by UNLV art professor Miguel Rodriguez, saw students and faculty from Las Vegas travel to Mexico in Spring of 2025. Students and faculty from Chihuahua then traveled to UNLV in October of 2025.

## UNLV FINE ARTS SHAPING WHAT'S NEXT

The College of Fine Arts educates, empowers, and engages creative people to become visionary change-makers in the arts through acts of imagination.

**At UNLV we believe the arts are an essential good for society.**

We make education relevant and accessible through our programs and outreach. We create new knowledge in the arts. We celebrate independent thought and the power of bringing people together to foster creativity. And, we value:

- Difference
- Kindness
- Discovery
- Inclusion
- Empathy
- Joy
- A spirit of generosity

These values underpin all our efforts and guide us in fulfilling our mission.

**UNLV** | COLLEGE OF  
FINE ARTS



# UNLV Fine Arts Research in Action



## REDEFINING INTERACTIVE DESIGN AND TECHNOLOGY

The Entertainment Engineering and Design program at UNLV continues to advance research that connects creative practice with technical innovation. Faculty and students have pursued projects that address sustainability in materials and manufacturing, explore new methods of interactive design, and investigate technologies that expand the possibilities of live and location-based entertainment.



## ARCHIVING DESIGNED LANDSCAPES

As a historian and landscape architect, Jung-Hwa Kim conducts research on the global transfer of ideas and plants, and on archiving records and memories of designed landscapes.



## ARTS + MEDICINE

UNLV Consortium of Arts + Medicine serves as the inaugural working group at UNLV, focusing on research, education, community engagement, and healthcare for performing artists.

**Research & Advocacy:** A primary goal is to address the lack of medical research on circus-specific injuries, rehabilitation, and the physical stresses of the work, which can include repetitive head impacts, falls from significant heights, and general musculoskeletal strain.

**Improved Patient Care:** The initiative aims to educate healthcare providers to better understand the physiological and psychological realities of being an elite circus athlete, leading to more appropriate treatment plans and increased career longevity.



# #1

**U.S. HOSPITALITY & LEISURE  
PROGRAM** (QS WORLD UNIVERSITY  
RANKINGS BY SUBJECT, 2025)



# ~100K

**CITATIONS IN GOOGLE SCHOLAR**  
(COMBINED TOTAL FOR THE  
COLLEGE'S TOP 20 RESEARCHERS)



# TOP 2%

**FACULTY MEMBERS ARE AMONG  
THE TOP 2% OF THE WORLD'S  
SCIENTISTS** IN SPORT, LEISURE, AND  
TOURISM, BASED ON RESEARCH  
IMPACT (STANFORD/ELSEVIER 2025)

## **HARRAH COLLEGE OF HOSPITALITY ELEVATING THE INDUSTRY THROUGH RESEARCH**

From casino gaming to sustainable tourism, our faculty are examining the hospitality industry's most pressing questions while fueling new discoveries in hospitality-related research.

### **Key of Areas of Research**

- Customer attitudes toward technology and AI
- Sustainable tourism and development
- Workplace culture and employee wellbeing
- Data analytics and revenue management
- Sports management, performance, and entertainment
- Problem gambling
- Paradigms in casino marketing
- Circular economy and corporate social responsibility
- Tribal gaming and hospitality
- Brand reputation, customer experience, and market segmentation

### **Global Reach**

Our faculty members are some of the world's top hospitality and tourism scholars. They conduct research in markets like Japan, South Korea, Brazil, the Caribbean, Turkey, and Australia, collaborating with international researchers and publishing in top-tier journals.

**UNLV** | HARRAH COLLEGE  
OF HOSPITALITY

# Research With Real Impact for the Real World



## CHALLENGING THE WAY CASINOS DO BUSINESS

Research led by Dr. Anthony Lucas tests established paradigms in the areas of casino operations and marketing. His studies have led to significant changes in game selection at many casinos and have provided new insights into how players respond to shifts in the hidden house advantages associated with reel slot machines. Other research by Lucas explores the effectiveness of free-play offers, highlighting the need for essential campaign reforms. Studies on popular lottery-based promotions have uncovered important failures in the promotional design, signaling the need for structural changes to the format.



## BRIDGING HOSPITALITY & SPORTS

Under the guidance of Dr. Christopher Cain, the college's PGA Golf Management Center serves as a research hub for collaborations and data sharing among industry and UNLV partners across disciplines. In addition to leading scholarship at the intersection of hospitality and sport management, our researchers are shedding light on the influence of reward systems and gamification on player commitment and skill development, the impact of learning styles on player anxiety coping mechanisms, and potential uses of AI in assessing athlete performance.



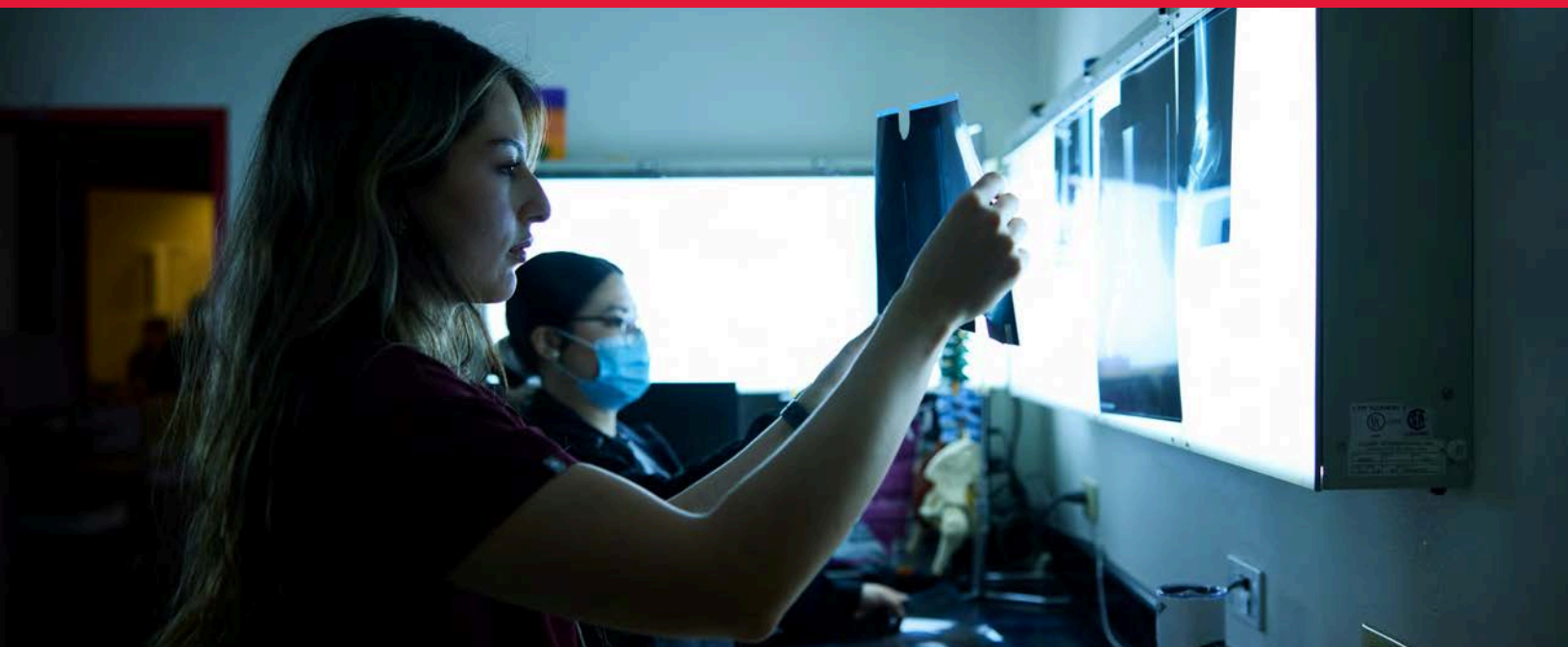
## IDENTIFYING WHAT DRIVES CUSTOMER LOYALTY

Research by Dr. Seyhmus Baloglu has significantly shaped hotel and casino customer loyalty strategies. Baloglu's research shows that trust, emotional attachment, and perceived fairness in loyalty programs are stronger predictors of genuine loyalty than transactional rewards. He found that when an organization designed programs that emphasize personalized experiences, transparent communication, and relationship quality rather than purely reward-based schemes, customers were more likely to become true brand advocates, ultimately strengthening the property's competitive position.

Visit [unlv.edu/hospitality](https://unlv.edu/hospitality)

**UNLV** | HARRAH COLLEGE  
OF HOSPITALITY





**\$2.4M**  
FY24

IN RESEARCH AWARDS RECEIVED



**21**  
FY24

ACTIVE GRANTS



**4,000+**

DEGREES AWARDED SINCE 2013

## UNLV SCHOOL OF INTEGRATED HEALTH SCIENCES

### SHAPING THE FUTURE OF HEALTHCARE AND RESEARCH

The School of Integrated Health Sciences educates and conducts research to transform healthcare and develop professionals who deliver compassionate patient care.

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### Promoting, Improving, and Sustaining Human Health Through Evidence-Based Education and Advances in Research and Practice

The changing climate of healthcare in the United States is making research more important than ever. Professionals within the Integrated Health Sciences fields are in an excellent position to build cutting-edge collaborations while identifying problems and testing theories. We educate future professionals in the fields of:

- Kinesiology and Nutrition Sciences
- Physical Therapy
- Occupational Therapy
- Health Physics and Diagnostic Sciences
- Applied Health Sciences

**UNLV** | SCHOOL OF INTEGRATED  
HEALTH SCIENCES

# UNLV research is transforming the future of healthcare through discoveries in clinical care and disease prevention



## CLINICAL TRIALS

With numerous clinical trials underway, the School of Integrated Health Sciences is a recognized leader in clinical research dedicated to improving health and quality of life through evidence-based innovation. With outstanding expertise in randomized clinical trials, our well-funded faculty develop practical solutions for preventing and managing disease. With a strong focus on lifestyle interventions in rehabilitation, kinesiology, nutrition, occupational, and physical therapy, our investigators advance personalized strategies that promote recovery, enhance physical performance, and support long-term wellness. Through interdisciplinary collaboration and rigorous clinical methodology, we drive progress that transforms research discoveries into real-world health benefits for individuals and communities.



## INTERDISCIPLINARY NEUROSCIENCE

Our faculty are at the forefront of interdisciplinary neuroscience research, uniting experts across clinical, biological, and behavioral sciences to advance understanding of the brain and its remarkable capacity for adaptation. Our investigators explore the clinical challenges of Down's Syndrome, Parkinson's Disease, cognitive function, circadian rhythms, and sleep—areas that hold critical insights into how the brain develops, ages, and heals. By integrating cutting-edge imaging and translational research, we are shaping innovative interventions that enhance cognition, restore function, and improve quality of life for individuals affected by neurological and neurodevelopmental conditions.



## SPACE EXPLORATION AND OUR HEALTH

Dr. Frank Cucinotta, Dr. Janice Pluth, and Dr. Ayan Sengupta from the Department of Health Physics and Diagnostic Sciences are conducting critical research on how space travel affects the brain and the central nervous system. Dr. Cucinotta's and Dr. Pluth's research focuses on biophysics models of health effects caused by radiation on Earth, including radiation treatment of cancer, and in space travel. Dr. Sengupta has partnered with NASA to study how microgravity affects the structure of the human brain. As space flight becomes more accessible, understanding the effects of microgravity will be vital to astronauts' longterm health.

Visit [unlv.edu/integratedhealth](https://unlv.edu/integratedhealth)

**UNLV** | SCHOOL OF INTEGRATED  
HEALTH SCIENCES





**#1**

**LEGAL WRITING PROGRAM  
U.S. NEWS AND WORLD REPORT 2025**



**#9**

**DISPUTE RESOLUTION PROGRAM  
U.S. NEWS AND WORLD REPORT 2025**



**3,000+**

**DEGREES AWARDED SINCE 2001**

## **William S. Boyd School of Law at UNLV**

### **Advancing Knowledge. Shaping Law.**

At the William S. Boyd School of Law, research isn't just academic — it's practical, impactful, and rooted in real-world challenges. Our faculty are producing scholarship that influences courts, informs policymakers, and drives conversations on today's most pressing legal issues.

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### **Driving Innovation Through Research and Collaboration**

Faculty in the Boyd School of Law conduct research in several areas including:

- Lawyering Process and Legal Writing
- Alternative Dispute Resolution
- Business and Commercial Law
- Health Law
- Intellectual Property Law
- Race, Gender, and Policing Law
- Workplace Law

# Boyd Law research extends beyond the classroom, contributing to Nevada, the nation, and the world.



## TECHNOLOGY, AI, & THE FUTURE OF LEGAL PRACTICE

At the William S. Boyd School of Law, faculty are doing some cutting-edge work around AI, technology and the future of legal practice. Associate Professor Joseph Regalia authored *"From Briefs to Bytes: How Generative AI is Transforming Legal Writing and Practice"*, which explains how generative-AI tools are not just futuristic ideas but are already reshaping how lawyers draft, research and write. He also wrote *"Generative AI and the Future of Legal Education"*, exploring how law schools and students must adapt to new technology. Meanwhile, Professor Nachman Gutowski contributed *"Forging Ahead or Proceeding with Caution; Developing Policy for Generative Artificial Intelligence in Legal Education"*, which tackles how institutions should govern AI's use in legal teaching and practice.



## INTELLECTUAL PROPERTY LAW

Faculty research in intellectual property at Boyd runs deep and reaches far beyond Nevada. Samuel S. Lionel Professor of Intellectual Property Law Marketa Trimble focuses on treaties, geoblocking, conflict of laws, and cross-border patent and copyright issues. Her work includes *Global Patents: Limits of Transnational Enforcement* and *The EU Geo-Blocking Regulation: A Commentary*. IGT Professor of Intellectual Property Law Mary LaFrance brings heavyweight scholarship in entertainment law, copyright, trademark, and the taxation of IP, looking at how these areas play out across media, technology, and global markets. Her recent work includes *Copyright, eBook, and the Future of Digital Lending* in the *Yale Journal of Law and Technology*. Together, they're tackling the big-picture challenges shaping IP today including the international enforcement of rights to the way streaming, digital platforms, and the internet redefine ownership and remedy. Their work positions Boyd Law as a serious voice in the global IP conversation.



## CORPORATE GOVERNANCE & PROFESSIONAL RESPONSIBILITY

Professors Benjamin Edwards and Nancy Rapoport focus on corporate governance, ethics, bankruptcy, and legal innovation. Associate Dean for Faculty Development and Research and Professor of Law, Edwards' recent article *"Alternatives to Delaware? Evaluating Corporate Law in Nevada, Texas, and Wyoming"* (co-authored with Joseph Landau) probes how firms are shifting their corporate domiciles and what that means for regulatory competition. Rapoport, the Garman Turner Gordon Professor of Law and UNLV Distinguished Professor, in *Using General Counsel to Set the Tone for Work in Large Chapter 11 Cases*, argues that a company's general counsel can shape bankruptcy staffing and fee decisions by signaling core values early in the engagement. Together, Edwards and Rapoport exemplify Boyd Law's commitment to rigorous, policy relevant research at the intersection of business, ethics, and law.





**5.1M**

IN GRANT DOLLARS RECEIVED IN  
FY25



**31%**

INCREASE IN FUNDED PROJECTS IN  
FY25



**78.8%**

FIRST-YEAR RETENTION RATE OF  
FALL 2024 STUDENT COHORT

## UNLV COLLEGE OF LIBERAL ARTS SHAPING THE FUTURE

At the UNLV College of Liberal Arts, our innovative research and interdisciplinary work are advancing critical knowledge in the humanities and social sciences.

### Driving Innovation through Research and Collaboration

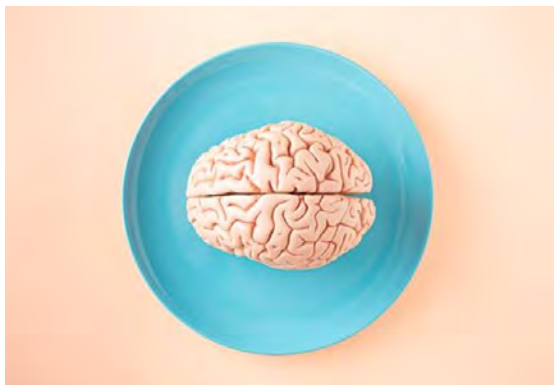
The impact of our rigorous scholarship and creative activity is demonstrated across various fields of study. Faculty in the College of Liberal Arts conduct research across nine departments and four community-engaged institutes. Interdisciplinary collaboration is a cornerstone of our productivity, transcending institutional and departmental boundaries for greater efficiencies and outcomes that address some of the most pressing needs of Southern Nevada, the state, and beyond.

Our research excellence areas include:

- Neuroscience
- Clinical psychology
- Mental health and related disorders
- Biological anthropology
- Medical humanities
- History of medical disparities
- Public history
- Asian American and Pacific Islander culture

**UNLV** | COLLEGE OF  
LIBERAL ARTS

# UNLV cutting-edge research is addressing Southern Nevadans' needs



## UNLOCKING HOW DIABETES DISTORTS MEMORY

UNLV researchers found that type 2 diabetes may rewire the brain in ways similar to early Alzheimer's disease, likely due to a link between high blood sugar and the anterior cingulate cortex (ACC). Published in the *Journal of Neuroscience's Computational Properties of the Prefrontal Cortex Special Collection*, the study shows that diabetes weakens ACC function, suppressing reward perception and memory signals, which can cause mild cognitive impairment resembling early Alzheimer's disease. Psychology professor James Hyman led the interdisciplinary research with contributions from UNLV's Interdisciplinary Neuroscience program and Brain Health department.



## ENGINEERING CBD-LIKE SEIZURE TREATMENTS

A UNLV-led research team has turned a common kitchen spice — caraway seeds — into a new class of cannabidiol (CBD)-like medicines with powerful seizure-reducing effects. By modifying the seeds' main chemical component, scientists enhanced CBD's therapeutic benefits while removing THC, creating safer, more affordable and effective treatments for childhood seizure disorders. Preclinical trials showed the caraway-based compounds outperformed current drugs without the harmful brain effects of benzodiazepines. Led by neuroscience/psychology professors Dustin and Rochelle Hines with student researchers as well as colleagues at New Mexico State University, the study was published in the *Nature* journal *Neuropsychopharmacology*.



## WORKING TO PRESERVE WALKING BOX RANCH

The Reid Public History Institute has been integral to the restoration and interpretation of Walking Box Ranch. Built by 1920s actors Clara Bow and Rex Bell, the historic property remains one of the best-surviving examples of large-scale desert ranching in the American Southwest. After receiving a \$200,000 Saving America's Treasures Grant to stabilize the house and conduct interdisciplinary research, institute director Andy Kirk, public history faculty, and students have catalogued the material culture, developed storage plans, and created educational programming for K-12 students and the public.





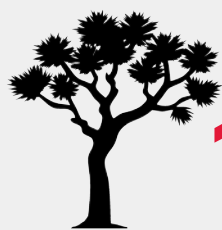
**1.25M**

VISITORS TO THE LIBRARIES IN  
2024-2025 FISCAL YEAR



**2.06M**

DIGITAL & ELECTRONIC  
COLLECTIONS



**15M**

WORLDWIDE DOWNLOADS  
FROM OASIS, UNLV'S  
INSTITUTIONAL REPOSITORY

## UNIVERSITY LIBRARIES THE HEART OF UNLV

The University Libraries play a central role in supporting research across the university, providing access to an extensive array of scholarly resources, expert guidance, and state-of-the-art research tools. Faculty and students benefit from millions of digital and print materials; robust interlibrary loan services; and expert subject librarians who offer tailored consultations for every discipline. We also maintain a suite of research infrastructure services, including data management support, digital scholarship tools, citation management guidance, and instructional workshops, that help researchers develop skills, refine methodologies, and navigate an increasingly complex information landscape.

Beyond collections and research services, the Libraries cultivate an environment that fosters discovery, collaboration, and innovation. Special Collections & Archives provide unique primary source materials that drive original scholarship, while the Libraries' partnerships with campus units such as the Office of Information Technology and the Office of Research enable transformative initiatives like immersive learning, digital preservation, and open access publishing. Through dedicated spaces, research-driven programming, and strategic support for faculty and student research, we serve as an essential partner in advancing knowledge, enhancing the university's research profile, and empowering the UNLV community to achieve new levels of scholarly excellence.

[LIBRARY.UNLV.EDU](https://library.unlv.edu)

**UNLV** | UNIVERSITY  
LIBRARIES

# Advancing Knowledge. Supporting Every Scholar.



## RESEARCH INFRASTRUCTURE

We strengthen the university's research infrastructure by providing essential tools, expertise, and platforms that help scholars thrive. We offer instruction and consultations in data management, data literacy, and GIS, while providing access to a wide range of research databases and digital collections that support inquiry across disciplines. We maintain OASIS, UNLV's digital institutional repository, which preserves and showcases the university's scholarly output and advances the university's open access efforts. Through programs like the Research Impact Challenge and ongoing support for open access publishing, the Libraries help researchers increase the visibility, accessibility, and impact of their work.



## COLLABORATIVE SPACES & INSTRUCTION

We provide dynamic spaces that empower innovative research and hands-on learning across disciplines. From the Makerspace, with 3D printing, fabrication tools, and creative technologies, to the Multimedia Studios that support video, audio, and digital project creation, students and faculty have access to environments designed for experimentation and collaboration. We also partner on immersive learning initiatives such as Dreamscape Learn, offering cutting-edge virtual reality experiences that enhance research and instruction. Through course-integrated classroom teaching, research workshops, and tailored support from expert librarians, we ensure that researchers can develop the skills and creativity needed to explore new ideas and produce impactful academic work.



## SPECIAL COLLECTIONS & ARCHIVES

Special Collections & Archives is a premier resource for researchers seeking original materials that illuminate the history, culture, and development of Las Vegas, Southern Nevada, and the global gaming industry. Our collections include rare books, manuscripts, photographs, architectural drawings, maps, and audiovisual materials. And we house the Oral History Research Center, which documents the lived experiences of community members, civic leaders, and industry professionals. Through ongoing digitization efforts, the Libraries make thousands of these unique items accessible worldwide, ensuring that scholars, students, journalists, and the public can explore and engage with these primary sources from anywhere.





**68.5M**

AWARDED FROM 179 GRANTS  
IN FY2016-FY2025.



**14.2M**

AWARDED FROM 32 GRANTS  
IN FY2025 ALONE.



**335+**

SCHOLARLY WORKS  
IN CY2024.

## SCHOOL OF MEDICINE

### Redefining Medical Research for Nevada's Future

Founded in 2014, the school advances medicine through 12 academic departments, 11 residency and 13 fellowship programs, nearly 150 academic, 140+ administrative and 400+ community faculty, over 350 residents and fellows, and 250+ medical students, driving research innovation, collaborative training, and clinical excellence that strengthens healthcare across Las Vegas and Nevada.

### Transforming Healthcare Through Research

Our research enterprise is strengthened by funding from federal and other agencies as well as private and community partners, supporting a broad range of clinical, translational, educational, workforce development, and community health initiatives. Grant-funded programs span brain health and aging, injury prevention and traffic safety, chronic and metabolic diseases, maternal and child health, behavioral and mental health, rural and underserved care, workforce training, telehealth, disaster preparedness, biomarker and stem cell research and translational and biomedical innovation. An expanding clinical trials' portfolio includes trials focused on rheumatologic therapies, diabetes management, near-infrared surgical technologies, minimally invasive women's health procedures, breast reconstruction materials, biodegradable reconstructive solutions for malignant skin cancers, and other trials that are designed to improve health outcomes.

KIRK KERKORIAN  
SCHOOL OF MEDICINE

UNLV

# Driving a culture of scientific inquiry and transformative impact



## ADVANCING NEVADA'S HEALTH

Our research spans clinical, translational, public health, medical education, behavioral, and neuroscience fields. Clinical work examines acute and chronic care, injury prevention, surgical outcomes, perioperative safety, emergency care, and quality improvement.

Neuroscience studies advance biomarkers, fMRI, cognitive aging, molecular mechanisms, and brain repair. Additional efforts address maternal and child health, behavioral interventions, chronic disease, and data-driven health improvement in Nevada each year.



## IMPROVING ALZHEIMER'S OUTCOMES

The department of brain health, the school's newest addition, has become a nationally recognized research enterprise focused on neurodegenerative disease. The department's Pam Quirk Brain Health and Biomarker Laboratory was one of only three sites contributing data to a biomarker now approved by the U.S. Food and Drug Administration (FDA) as a screening tool for neurological conditions.



## HOME TO THE WORLD'S #1 RANKED SCHOLARS

Our school has an impressive group of researchers, including Jeffrey Cummings, MD, who was named the "World's #1 Ranked Scholar" in the fields of dementia and drug development.

Kavita Batra, PhD, also ranked in the top 0.5% of scholars worldwide for her impactful contributions to COVID-19 research, according to ScholarGPS.

Visit [unlv.edu/medicine](https://unlv.edu/medicine)

KIRK KERKORIAN  
SCHOOL OF MEDICINE

UNLV





**94%**

NURSING BSN GRADUATES GO ON  
TO PRACTICE DIRECTLY IN NEVADA



**13M**

NURSING FACULTY RESEARCH  
AWARDS (2024-2025)



**408**

NEW NURSES GRADUATING FROM  
PRE-LICENSURE PROGRAMS EACH  
YEAR

## UNLV NURSING NURSE LEADERS BEGIN HERE

Research discoveries help preserve and promote the health and wellness of Nevadans and the future of nursing education. The UNLV Nursing research programs offer exceptional opportunities for both students and faculty to engage in meaningful, community-focused, and translational scholarship.

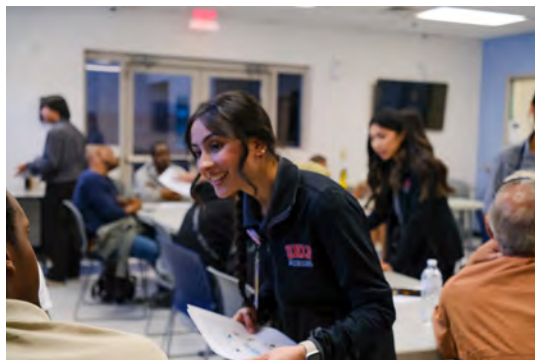
Our research topics span across several focus areas:

- Sleep, stress, and mental health
- Bio-behavioral and physiological mechanisms
- Chronic conditions and risk reduction
- Vulnerable populations, inclusion, and education
- Health disparities and community-based
- Maternal and child-focused

We take pride in our strong partnerships with industry and government agencies that enhance our research impact and real-world application. Our research centers and laboratories serve as primary engines for discovery, innovation, and technology transfer – fostering interdisciplinary collaboration and translating research into practical solutions.

**UNLV** | SCHOOL OF  
NURSING

# Creating healthier communities through research and discovery



## COMMUNITY-CENTERED CARE

Faculty research addresses critical health disparities through targeted, culturally responsive interventions. Dr. **Jinyoung Kim**, funded by an **NIH National Institute on Aging (NIA) R21** grant, investigates sleep biomarkers and Alzheimer's disease risk in **shift workers**, a population facing significant health vulnerabilities due to circadian disruption. Dr. **Clariana Ramos de Oliveira** leads a culturally adapted mental health intervention for **perinatal Latina mothers**, while Dr. **Andrew Reyes** develops mindfulness interventions for **college student veterans** with post-traumatic stress.



## BEHAVIORAL HEALTH & WORKFORCE SOLUTIONS

Drs. **Rei Serafica** and **Hyunhwa "Henna" Lee** lead the **Bridge to Behavioral Health (B2H)** initiative funded by the the **Health Resources and Services Administration (HRSA)**, a \$2.3 million project training 64 culturally competent Psychiatric-Mental Health Nurse Practitioners (PMHNP) to serve at-risk youth and families in rural and underserved communities. Faculty are also pioneering novel interventions for veterans with PTSD through a clinical trial led by Drs. **Rebecca Benfield**, **Reimund Serafica**, **Andrew Reyes**, and **Catherine Dingley** in partnership with Dr. **Alicia Brown** of the VA Southern Nevada Healthcare System. This research demonstrates that warm water immersion significantly reduces anxiety, pain, and PTSD symptoms, offering an accessible, low-risk adjunct therapy for veterans.



## INNOVATIONS IN NURSING EDUCATION

UNLV Nursing faculty are reimagining how to prepare tomorrow's healthcare workforce through initiatives that advance accessibility and technology integration. Drs. **Kayla Sullivan** and **Angela Silvestri-Elmore** received a prestigious **Josiah Macy Jr. Foundation** grant to develop inclusive clinical training programs for nursing students with disabilities. Drs. **Jennifer Vanderlaan**, **Lisa Nicholas**, and **Necole Leland** created a comprehensive **generative AI toolkit** to guide educators in curriculum design, assessment development, and simulation integration. Together, these initiatives reflect the School's commitment to embracing emerging technologies while removing barriers to nursing education and practice.

Visit [unlv.edu/nursing](https://unlv.edu/nursing)

**UNLV** | SCHOOL OF NURSING





**\$18M**

FY24

**IN RESEARCH AWARDS RECEIVED**

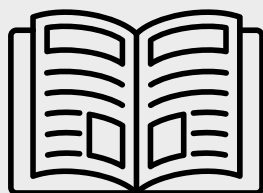
61 total grant funded projects.



**\$8M**

FY24

**IN RESEARCH EXPENDITURES**



**251**

FY24

**PUBLISHED RESEARCH**

Articles in peer-reviewed journals authored by School of Public Health faculty.

## UNLV SCHOOL OF PUBLIC HEALTH CHANGING THE WORLD

At the UNLV School of Public Health, our research changes the world. With 38 highly-engaged research faculty, we play an active role in preventing disease, protecting under-represented populations, and preparing the next generation of public health professionals.

### Influencing Change through Impactful Research

The School of Public Health is committed to advancing change that impacts communities in Southern Nevada and beyond, in the broad research areas of biostatistics, environmental and global health, epidemiology, healthcare administration and policy, and social and behavioral health.

Some of our current research topics include:

- Aging and chronic diseases
- Food insecurity and nutrition
- Global health
- Health and healthcare equity
- Health services and policy
- Infectious disease
- Maternal and child health
- Mental health
- Physical activity
- Social determinants of health
- Substance misuse

# UNLV research addresses health disparities near and far



## TAKING THE BITE OUT OF MOSQUITOES

Led by Dr. Louisa Messenger, this research seeks to implement a portable experimental hut tent (PEHT) as a low-cost way to control the spread of mosquito-borne diseases. The hut's design is based on World Health Organization (WHO) west African experimental hut dimensions, which uses a seven feet high cabin style tents and 3-D printer technology. Dr. Messenger also leads a team of students and staff in the Parasitology and Vector Biology (PARAVEC) Laboratory to combat the spread of mosquito-borne illnesses in Clark County.



## SUPPORTING MATERNAL AND CHILD HEALTH

Dr. Gabriela Buccini is leading research on how to promote food security for mothers and children in Southern Nevada. Using a community-based participatory approach, this research aims to assess changes in the severity of household food insecurity in families with mothers and children. Buccini and her team also regularly work to help food-insecure families in Southern Nevada's most vulnerable zip codes access maternal-child health resources as part of the Early Responsive Nurturing Care for Food Security (EARN-FS) project.



## ANALYZING CHEMICALS IN OUR ENVIRONMENT

How does widespread exposure to certain chemicals impact children's health? Led by Dr. Ann Vuong, this research assesses how chemicals in flame retardants can impact a child's cholesterol and disrupt the processes in their body that create energy and process sugar. The project utilizes the Health Outcomes and Measures of the Environment (HOME) Study to examine whether early exposure to these chemicals are associated with adverse health outcomes.





**86.5%**

1ST YEAR RETENTION RATE OF  
FALL 2023 STUDENT COHORT



**\$25M**

AWARD DOLLARS RECEIVED IN FY 2024



**2,192**

STUDENTS

## UNLV COLLEGE OF SCIENCES SHAPING THE FUTURE OF SCIENCE

At the UNLV College of Sciences, our research and discoveries are advancing science and innovation while protecting and serving the people of Nevada.

### Driving Innovation through Research and Collaboration

Faculty in the College of Sciences conduct research across five departments, one school, and one institute. Interdisciplinary collaboration is a hallmark of the college, frequently crossing departmental boundaries and aligning with our research excellence areas.

- Chemistry/Biochemistry
- Geoscience
- Mathematical Sciences
- Physics & Astronomy
- School of Life Sciences

#### Areas of Research Excellence:

- Cells, Genomes, and Life
- From Atom to Universe
- Health, Diseases, and Medicine,
- New Materials and Applications
- Environment and Life
- Technology and Instrumentation
- Natural Resources, Climate, & Clean Energy
- Mathematics, Statistics, Big Data
- Science Education
- Computation and Artificial Intelligence

**UNLV** | COLLEGE OF  
SCIENCES

# UNLV science is rising to the challenge of our time



## PRECISION CARE, BETTER LIVES

A research team led by UNLV geneticist Dr. Lukasz Szajder, The Hospital for Sick Children (SickKids; Toronto), and the University of Florida, Adam Mickiewicz University (Poland), has discovered that a mutation in a specific gene can disrupt the expression of multiple autism-related genes during brain development. This groundbreaking finding, recently published in Nature Neuroscience, paves the way for precision medicine approaches - treatments tailored to an individual's unique genetic profile. Such therapies hold the promise of being more effective, with fewer side effects, and could significantly improve the quality of life for individuals on the autism spectrum.



## MARS CLUES FOR EARTH'S FUTURE

New research led by geochemist Libby Hausrath and colleagues suggests Mars once supported an active carbon cycle, with significant amounts of the iron carbonate mineral siderite in Gale Crater - up to ~10.5% of rock weight - indicating that ancient Mars had a thick CO<sub>2</sub> - rich atmosphere that trapped heat and supported liquid water. Mar's geologic record - unchanged by plate tectonics - acts as a "time capsule", offering a clearer glimpse into early planetary evolution than Earth can. Learning how carbon cycles operated on Mars helps us understand Earth's carbon reservoirs and long-term climate behavior.



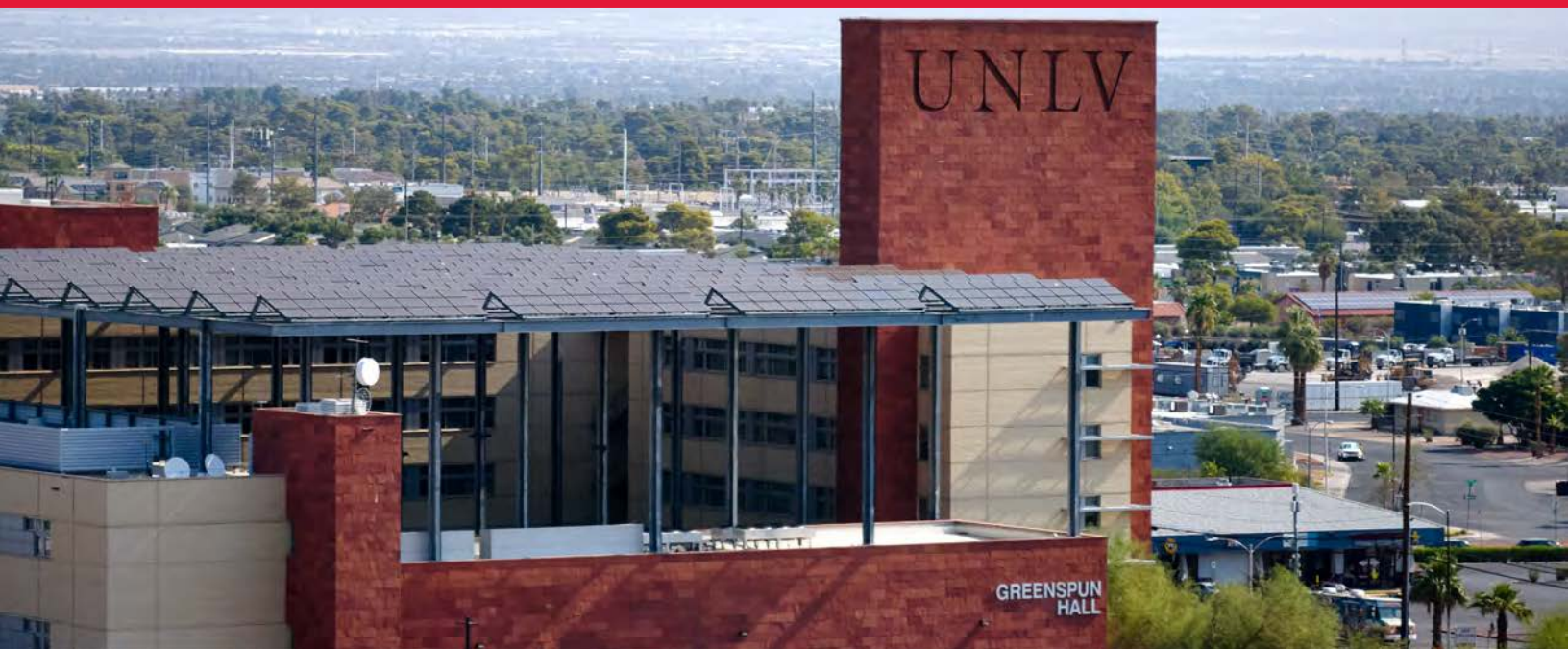
## UNLV POSITIONED AS QUANTUM LEADER

The Department of Defense (DoD) awarded UNLV a grant to install a state-of-the-art dilution refrigerator - the only one of its kind in Nevada - to advance quantum science research in Southern Nevada. This specialized system enables the study of quantum particles and superconducting devices at temperatures near absolute zero. Dr. Joshua Island notes that the work supports development of quantum technologies, with potential applications in computing, secure communications, and sensing. The project positions UNLV as a regional leader, with possible long-term benefits in cybersecurity, health care, and national defense.

Visit [unlv.edu/sciences](https://unlv.edu/sciences)

**UNLV** | COLLEGE OF  
SCIENCES





## UNLV | GREENSPUN COLLEGE OF URBAN AFFAIRS

### Tourist Safety Institute

UNLV | GREENSPUN COLLEGE  
OF URBAN AFFAIRS

STUDIES FOCUS ON  
PERCEPTIONS OF SAFETY,  
SECURING EXPERIENCES FOR  
LIVE EVENTS, WELLBEING OF  
RESIDENTS AND VISITORS, AND  
RESILIENCY

### MGM Resorts Public Policy Institute

UNLV | GREENSPUN COLLEGE  
OF URBAN AFFAIRS

STUDIES FOCUS ON WORKFORCE  
PROGRAMS, PATHWAYS TO MIDDLE  
CLASS, OPPORTUNITIES FOR  
EDUCATIONAL ADVANCEMENT

At the Greenspun College of Urban Affairs, it is our mission to improve local, national, and global communities through our research and educating the leaders of tomorrow.

### Creating Leaders Who Drive Meaningful Change

Through our community resilience initiative, we partner and collaborate with community leaders, advance important social causes, and help inform decisions and strategies that serve the needs of individuals and society. We form relationships with state, local, and federal government leaders, the nonprofit sector, and various stakeholders.

Our research currently centers on:

- Tourist Safety
- Social and Emotional Wellness
- Media, Communication, Relationship Building
- Workforce Development
- Public Policy Solutions

Our research impacts:

- Military Veterans
- First-responders
- Policymakers
- Nevada's Workforce

Visit [unlv.edu/urbanaffairs](http://unlv.edu/urbanaffairs)

# Research Aimed at Community Resilience



## Pathways to the Middle Class

Researchers at The MGM Resorts Public Policy Institute at UNLV Greenspun College of Urban Affairs address fundamental solutions about the future of work and pathways to the middle class. Researchers provide expertise to the MGM College Opportunity Program, a partnership between the Nevada System of Higher Education and MGM Resorts International. In addition, researchers have studied the benefits of Career and Technical Education programs, the importance of public and private collaborations, and the impact of higher education on career advancement.



## Research That Produces Solutions

The UNLV Tourist Safety Institute at the Greenspun College of Urban Affairs conducts research and creates solutions on safety, security, and health as it relates to the tourist industry. One of the core research areas includes a program to help Nevada Highway Patrol employees focus on mindfulness, emotional regulation, attention control, and maintaining effective interpersonal relationships. The Emergency Responder Resilience Training program is designed to give officers tools to do their job better and increase their health and wellness, with additional benefits of greater job and life satisfaction.



## Providing Support for Disconnected Youth

The Urban Affairs faculty provide a wide variety of solutions for youth that are disconnected from families, interpersonal relationships, education, and society. Our community partners include Las Vegas Metro Police, Nevada Partnership for Homeless Youth, MGM Resorts International, and the Nevada Highway Patrol. Our research solutions involve determining community support assets for youth, developing pathways for young people to access resources, and provide job opportunities.



The logo for UNLV Research is located in the bottom right corner. It features the text "UNLV" in a large, white, serif font, with a thin white horizontal line underneath. Below the line, the word "RESEARCH" is written in a smaller, white, serif font. At the bottom, the website address "unlv.edu/research" is displayed in a small, white, sans-serif font. The logo is set against a red background that is separated from the rest of the page by a diagonal black line.

UNLV

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RESEARCH

[unlv.edu/research](http://unlv.edu/research)