

TTDGRA Awardees List 2026-2029

PI	PI Rank	Department	College/School	Proposal Title
Amanda Haboush-Deloye	Associate Professor	Social & Behavioral Health	School of Public Health	Understanding the Combined Effects of Pesticides and Maternal Stress on Early Neurodevelopment
Boo Shan Tseng	Associate Professor	Life Sciences	College of Sciences	Investigating biological solutions to controlling corrosion
Chandrabali Bhattacharya	Assistant Professor	Chemistry and Biochemistry	College of Sciences	Understanding Cellular Endocytosis of mRNA Lipid Nanoparticles Using 3D Label-Free Holotomography
Clariana Ramos de Oliveira	Assistant Professor	Nursing	School of Nursing	Advancing Maternal Mental Health Equity: A Nurse-led, Culturally Tailored Intervention for Latina Mothers in Clark County
Drew Peltier	Assistant Professor	Life Sciences	College of Sciences	Understanding novel juniper dieback.
Gabriela Buccini	Assistant Professor	Social & Behavioral Health	School of Public Health	Empowering for Breastfeeding Success: A Mixed Methods Evaluation and Co-Creation of Breastfeeding Support Interventions
Ganqing Jiang	Professor	Geoscience	College of Sciences	Tracing weathering intensity across major climate events in Earth history using Lithium and Potassium isotopes

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Huang Chen	Assistant Professor	Mechanical Engineering	Howard R. Hughes College of Engineering	Enhancing LVAD Hemocompatibility Using Novel Flow Control Methods
Jaeyun Moon	Associate Professor	Mechanical Engineering	Howard R. Hughes College of Engineering	Sustainable Biochar-based Composites for Water Remediation
Jorge Fonseca Cacho	Assistant Professor	Computer Science	Howard R. Hughes College of Engineering	Accelerating AI-Powered Biomarker Selection for Alzheimer's Drug Trials Using Localized LLM + RAG Systems
Lukasz Sznejder	Assistant Professor	Chemistry and Biochemistry	College of Sciences	Toxic RNA in myotonic dystrophy
Lung-Wen (Antony) Chen	Associate Professor	Health Environmental and Global Health	School of Public Health	Roots of Change: Linking Urban Greening to Healthier Air and Cooler Cities
Nicole Pietrasiak	Associate Professor	Life Sciences	College of Sciences	Biocrust-mediated soil carbon pools and transformations in gypsum drylands
Ronghuai Qi	Assistant Professor	Mechanical Engineering	Howard R. Hughes College of Engineering	Single-Port Multi-Arm Robotic Endoscope for Brain Tumor Surgery
Seungman Park	Assistant Professor	Mechanical Engineering	Howard R. Hughes College of Engineering	Label-Free Holotomography-Based Deep Learning System for Cellular Senescence Scoring
Shaikh Arifuzzaman	Assistant Professor	Computer Science	Howard R. Hughes College of Engineering	A High-Performance AI Framework for Simulating Urban Resilience in Extreme Environments

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Shoma Kitayama	Assistant Professor	Civil and Environmental Engineering and Construction	Howard R. Hughes College of Engineering	Enhancing Fatigue Life of Nevada's Highway Bridges: The Role of Damping Under Combined Thermal and Heavy Traffic Loading
Stephanie Gerow	Associate Professor	Early Childhood Multilingual and Special Education	College of Education	Developing a Telehealth Program to Support Families of Children with Autism
Yan Hu	Assistant Professor	Geoscience	College of Sciences	From Earth's Mantle to Lunar Formation: Potassium Isotopes and the Giant Impact
Zach Perzan	Assistant professor	Geoscience	College of Sciences	Uranium cycling during episodic oxygenation events in contaminated floodplains