PROGRAM ALLIANCE



Jessica Anthony Palo Alto College, Chemistry **Reductive Amination Enables** Functionalization of-Amino Acid

Research completed at: University of Texas at San Antonio



Oumar Bah Northwest Vista College, Industrial Engineering Relationship Between Eye Movements Detected in Eog and Phases of Sleep Research completed at:

University of Texas at San Antonio



Julio Banda San Antonio College, Engineering Exploring Nonvisual Imaging in an Unmanned Underwater Vehicle Research completed at:

San Antonio College



St. Philip's College, Biology Efficacy of Three Insecticides Applied by Mist and Ultra-Low Volume Vehicle-Mounted Sprayers in an Abandoned Tire Site in South San Antonio, Texas

Research completed at: Texas A&M University-San Antonio



Amanda Bray San Antonio College, Environmental Science Bee Bluff Structure Gravitational Anomaly Research completed at: San Antonio College



St. Philip's College, Mechanical Engineering Comparing Mechanical Behavior of

the Real Bone and Generated Mathematical Model via Compression Test

Research completed at: University of Texas at San Antonio



Quy Bui Northeast Lakeview College, Biology

Discovery of Candidate Gene Orthologs in the Transcriptome of Lumbriculus variegatus

Research completed at: Northeast Lakeview College



Nikolas Carwile Northeast Lakeview College, Civil Engineering

The Interaction of Nitrifying Bacteria and Zinc Oxide Nanoparticles

Research completed at: University of Texas at San Antonio



Cristian Castillon St. Philip's College, Biology

A Novel Biofuel Synthesis from Furfural Alcohol and Butanol over Heteropoly Acid Catalysts

> Research completed at: St. Philip's College



Paola De Hoyos St. Philip's College, Chemistry

A Novel Biofuel Synthesis from Furfural Alcohol and Butanol over Heteropoly Acid Catalysts

> Research completed at: St. Philip's College



Stephanie Fierros St. Philip's College, Biology

A Novel Biofuel Synthesis from Furfural Alcohol and Butanol over Heteropoly Acid Catalysis

> Research completed at: St. Philip's College



Joseph Isaac Garcia San Antonio College, Physics

Molecular Dynamics of Aquaporin-4 Inhibited by Acetazolamide

Research completed at: University of Texas at San Antonio

PROGRAM ALLIANCE



Michael Gardner
San Antonio College, Physics
Identification of Zinc Phase in Iron Ore
Research completed at:
University of Texas at San Antonio



Daniel Guarnero
Palo Alto College, Biology

Silver(I) Selenide Nano-Alloys Synthesized through Pulsed Laser Ablation in Liquids

Research completed at:
University of Texas at San Antonio



Amanda Guindry
Northeast Lakeview College, Biology
Construction of Expression Plasmids
to Study the Yeast Proteasome
Research completed at:
Northeast Lakeview College



Tabitha HansenNortheast Lakeview College, Biology
Identification of Yeast Promoters that
Initiate Gene Expression in E. Coli
Research completed at:
Northeast Lakeview College



Ashley Hughes
Palo Alto College, Biology

The Biological Effects of Selenium Coated with Chitosan Nanoparticles on the Retinal Pigmented Epithelial Cells

Research completed at:

University of Texas at San Antonio



Dylan LaraSan Antonio College, General Science
Bee Bluff Structure Gravitational Anomaly
Research completed at:
San Antonio College



Bryan Larison
San Antonio College, General Science
The Role of Competence Locus E (comE)
in the Virility of Borrelia Burgdoferi
Research completed at:
University of Texas at San Antonio



Selenium Nanoparticles Synthesized in the Presence of Chitosan by Pulsed Laser Ablation Research completed at:

Northeast Lakeview College, Mathematics

University of Texas at San Antonio



Ravi Martinez
St. Philip's College, Mathematics

Data Mining to Study Factors Which Induce Stronger Academic Engagement with STEM Fields in Underrepresented Minorities

Research completed at: St. Philip's College Southwest Campus



Alfredo MujicaPalo Alto College, Biology

Looking for Hydrocarbons in the Venom Sac of Fire Ant (Solenopsis Invicta) Queens

Research completed at: University of Texas at San Antonio



Dominic OchoaSan Antonio College, Engineering

Exploring Nonvisual Imaging In An Unmanned Underwater Vehicle

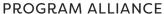
Research completed at: San Antonio College



John OhlhausenPalo Alto College, Biology

Effect of Microbial Interactions in a Plant-plant Competition Study Between a Perennial Native Grass and a Perennial Non-Native Grass

> Research completed at: Texas A&M University–San Antonio





Brittney Oliver
Northwest Vista College, Physics
Effects of Simulated Insect Herbivory
on Plant Growth and Development
Research completed at:

University of Texas at San Antonio



Eben Pfeil
San Antonio College, Engineering
Exploring Nonvisual Imaging in
an Unmanned Underwater Vehicle
Research completed at:
University of Texas at San Antonio



Markus Potter
St. Philip's College, Biology

The Role of Competence Locus F (ComF) in the Virulence of Borrelia Burgdorferi

Research completed at:
University of Texas at San Antonio



Northwest Vista College, Biology
C-Isotope Chemo Stratigraphy
of the Hensel Formation, Central Texas
Research completed at:
University of Texas at San Antonio



San Antonio College, Biology

Comparison between Transcranial Perfusion
and Immersion Fixation for
Immunohistochemistry in SNC/VTA

Research completed at:
Northeast Lakeview College



Ryan RoseNorthwest Vista College, Biomedical Engineering

Novel Method for Oximetry Using Dual Wavelength Imaging on the Bulbar Conjunctiva and Episcleral Microvasculature

Research completed at: University of Texas at San Antonio



Irene Salazar
San Antonio College, Engineering
Exploring Nonvisual Imaging in
an Unmanned Underwater Vehicle

Research completed at: San Antonio College



Stela Staver-ScullSan Antonio College, Civil Engineering

Hydroponic Systems: Comparison of Deep Water Culture and Ebb and Flow Systems

Research completed at: San Antonio College



Jason SepulvedaSt. Philip's College, Engineering

A Novel Biofuel Synthesis from Furfural Alcohol and Butanol over Heteropoly Acid Catalysts

Research completed at: University of Texas at San Antonio



Alexandria Stewart

Northeast Lakeview College, Chemistry

Utilizing GC-MS to Identify the Chemical Composition of Essential Oil Pesticides

Research completed at: University of Texas at San Antonio



Thu ThaiNorthwest Vista College, Biology

Synthesis and Characterization of Conjugated Gold Nanorods (GNR) and Magnetic Nanoparticles (MNP) as Contrast Agent

> Research completed at: University of Texas at San Antonio



Brenda TrejoNorthwest Vista Colllege,
Computer Science

Heart Rate Variability as an Indicator of Fatigue and Performance

Research completed at: University of Texas at San Antonio

PROGRAM ALLIANCE



Chimezie Ukwouma
Northwest Vista College,
Mechanical Engineering

Morphological Analysis of Trabeculae Carnae in the Left Ventricle of Mammalian Hearts

Research completed at: University of Texas at San Antonio



Natasia Upadhaya San Antonio College, Mechanical Engineering

Hydroponic Systems: Comparison of Deep Water Culture and Ebb and Flow Systems

> Research completed at: San Antonio College



Nicolas Villareal
Northeast Lakeview College,
Biophysics
Molecular Dynamics of Beta-Amyloid
in Physiological Saline

Research completed at: University of Texas at San Antonio



Madeline Wrzesink
San Antonio College,
Computer Engineering
Automation and Control of
Hydroponic Systems
Research completed at:
San Antonio College