

CIMA-LSAMP

PROGRAM ALLIANCE

STUDENTS



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



Alexandra Barba

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



Aaron Buelna

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 Catalysts

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

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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 Hansen

Northeast 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 Lara

San 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 burgdorferi*

Research completed at:

University of Texas at San Antonio



Cheo Lee

Northeast Lakeview College, Mathematics

Selenium Nanoparticles Synthesized in the Presence of Chitosan by Pulsed Laser Ablation

Research completed at:

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 Mujica

Palo 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 Ochoa

San Antonio College, Engineering

Exploring Nonvisual Imaging In An Unmanned Underwater Vehicle

Research completed at:

San Antonio College



John Ohlhausen

Palo 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

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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



Hannah Reinhard

Northwest Vista College, Biology

C-Isotope Chemo Stratigraphy of the Hensel Formation, Central Texas

Research completed at:
University of Texas at San Antonio



Grace Rojas

San Antonio College, Biology

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

Research completed at:
Northeast Lakeview College



Ryan Rose

Northwest 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-Scull

San Antonio College, Civil Engineering

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

Research completed at:
San Antonio College



Jason Sepulveda

St. 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 Thai

Northwest 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 Trejo

Northwest Vista College, Computer Science

Heart Rate Variability as an Indicator of Fatigue and Performance

Research completed at:
University of Texas at San Antonio

STUDENTS

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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