

Jesus Valencia

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Education

- St. Mary's University** San Antonio, TX
December 2020
B.S Biochemistry GPA: 3.7/4.0
- Presidential Scholar and received the Briggs Memorial Scholarship for Chemistry
 - Dean's List and Joint Admission Medical Program Trainee
- El Paso Community College** El Paso, TX
May 2015
A.A Biology GPA: 3.5/4.0
- Obtained Associates of Arts as Junior in High School as part of the Dual Credit Program at Northwest Early College High School
- Northwest Early College High School** El Paso, TX
High School Distinguished Diploma May 2016
- Graduated with honors
 - Nominated by scholastic committee and received the distinguished Agate Award for Academics

Research

- UT Health San Antonio** San Antonio, TX
Joel Baseman Lab (Mentorship by Dr. Jesus Segovia) 2016-2018
Undergraduate Researcher, 1000 hours
- Designed and executed a lab proposal investigating the effect of CARDS Toxin, the virulent determinant of *Mycoplasma pneumoniae* and its effect on U937 monocyte proliferation and cell division
 - Implemented cell culture techniques, cell death and viability assays, western blot and flow cytometry to characterize the effects of CARDS Toxin.
- Rice University** Houston, TX
BioXFEL Summer Research Program George Phillips Lab (Mentorship by Jose Olmos Ph.D. Candidate)
Undergraduate Researcher, 400 hours Summer 2017
- Under the guidance of the Phillip's Lab, purified and conducted the crystallization trials of New Delhi Metallo B-Lactamase (NDM1).
 - Implemented cloning, cell culture technique, HPLC protein purification, and X-Ray crystallography methods to obtain NDM-1 protein crystals.
 - Was granted the BioXFEL Argonne Natl. Lab travel award which allowed my lab partner and I to travel and analyze our crystals at Argonne National Laboratory with our lab mentor.

Healthcare

- UT Health San Antonio** San Antonio, TX
Shadowed in Anesthesia Department, 40 Hours 2019-Present
- Shadowed Dr. Boies as well as Anesthesia Residents as they performed general, local and MAC anesthesia
- Sonterra Dermatology** San Antonio, TX
Volunteer Scribe and Shadowed, 130 Hours Summer 2018-Present
- Shadowed Dr. Garcia and other providers they diagnosed and treated their patients
 - Trained on Electronic Medical Records, transferred patients into the consultation rooms, gathered medical histories and presented patients to providers.
- Texas A&M Health Science Center** College Station, TX
Joint Admission Medical Program Summer I Internship, 40 Hours
Trainee Summer 2018
- Participated in medical school classes such as Anatomy, Physiology, Medical Terminology as well as an MCAT prep course.
 - Shadowed physicians in Anesthesia, Family Practice and Internal Medicine in College Station, Temple and Houston.

Posters and Presentations

Effect of Mycoplasma pneumoniae CARDS TX on U937 Monocyte Growth and Viability

Research conducted in Joel Baseman Lab at UT Health San Antonio and presented at the following

Society for Advancement of Chicanos and Native Americans in Science Conference San Antonio, TX
October 2018

St. Mary's University Annual Summer Research Symposium San Antonio, TX
September 2018

Synthesis and Crystallization Trials of New Delhi Metallo B-Lactamase

Research conducted in George Phillip's Lab at Rice University and presented at the following

American Physician Scientists Association South Regional Conference San Antonio, TX
January 2018

Annual Biomedical Research Conference for Minority Students Phoenix, AZ
November 2017

SSRL/LCLS User's Meeting at Stanford University Stanford, CA
September 2017

IBB Summer Symposium at Rice University Houston, TX
Summer 2017

Awards

SACNAS Poster Presentation Award in Medicine San Antonio, TX
October 2018

- Society for Advancement of Chicanos and Native Americans Natl. Conference

ABCRRMS Travel Grant and Poster Presentation Award in Biochemistry Phoenix, AZ
November 2017

- Travel Grant Awardee and Poster Presentation Awardee (Biochemistry)

2018 Hispanic Scholarship Fund Scholar National Award

- Designated as an HSF Scholar by the Hispanic Scholarship Fund

Leadership Experience

Learning Assistance Center San Antonio, TX
2018-Present

Tutor and Mentor at St. Mary's University

- Established weekly tutoring sessions for a general biology course
- Fostered an environment that allowed for maximum participation and collaboration among freshman students by establishing interactive practice problems and discussions
- Guided and mentored students as they adjusted to the transition from high school to college by setting important development goals while maintain an equal work life balance

The Lab Blog (www.thelabjv.com) San Antonio, TX
2018-Present

Founder and Writer

- Developed a Digital Interface that provides professional development, research, and healthcare resources for undergraduate and high school students
- When requested provided face to face guidance for example Early Admission Programs (JAMP)

Maximizing Access to Research Careers (MARC) San Antonio, TX
2017-Present

Pre-MARC and MARC Associate

- Pre-MARC enables undergraduate students to access research opportunities and conferences
- As a senior member I provided guidance and advise to new trainees on research methods and professional development skills
- Selected to have fully funded trip to SACNAS National Conference 2018

Student Government Association San Antonio, TX
2017-2018

Sophomore Representative

- Served on Admissions and Financial aid committee as it collaborated with the Financial Aid Office to establish a marketing campaign on the importance of FAFSA and Departmental Scholarship Funds

Communities in Schools San Antonio, TX
Spring 2017

Mentor

- Served as a mentor to a high school student from a local high school in San Antonio. During our meetings, I would be a friend, a guide and a mentor.
- Gave advice and guidance on issues carrying from where to go to college to personal problems.