

# Curriculum Vitae – Student Name

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e-mail

Phone:  
Mobile:

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## PROFESSIONAL GOAL

### Ph.D. in Pharmacogenomics and Pharmaceutical Sciences

*Prevention of health and higher education disparities within minority populations through research and education..*

## EDUCATION

**Bachelor of Science, Biochemistry, Minor in Spanish** St. Edward's University, December 2003

## SKILL PROFILE

*Advanced Molecular Biology and Biochemistry skills.*

*Knowledgeable in PCR, SDS-PAGE, Western Blot, Gene Sequencing, Agarose Gel Electrophoresis, RT-PCR, Recombinant cloning skills (digestion, ligation, transformation), UV-VIS, HPLC, Atomic Absorption, and Fluorescence spectroscopy.*

*Experience in designing and performing experiments.*

*Willing to work independently and collaboratively in research assignments; goal oriented.*

*Rapidly acquired knowledgeable in literature of assigned research.*

*Excellent oral and writing communication proficiency in both Spanish and English; strong presentational skills.*

*Initiative to follow-through on tasks beyond expectation.*

## RESEARCH AND EXPERIENCE

### Fogarty-NIH MIRT Program, Lancaster, England

#### Molecular Biologist Intern

May 2003-August 2003

- *Contributed to the investigation of the "Production of Recombinant Dermatopontin"*
- *Constructed plasmid clone through digestion, ligation, PCR and identified results through agarose gel electrophoresis*
- *Strengthened gene expression techniques of protein through induction and SDS-PAGE analysis*
- *Handled gene sequencing and oversaw identification of defaults in such procedure*
- *Coordinated protein identification through Western Blotting*
- *Managed protein purification through SDS-PAGE and Nickel column techniques*
- *Currently in the process of being published*

### St. Edward's University-Welch Foundation Scholarship, Austin, TX

#### Chemistry Intern

May 2002-May 2003

- *Conducted Enzymatic Assays to calculate the Kinetics of Yeast Enolase*
- *Designed the protocol to understand  $V_{max}$  and  $K_m$  of Yeast Enolase*
- *Analyzed the kinetics results of Yeast Enolase through Minitab software to specify binding constants and required concentrations of metal ions and substrate*
- *Extensive use of UV-VIS to accomplish kinetics and presentational results*

### MD-Anderson Cancer Science Park Research Division, Smithville, TX

#### Carcinogenesis Intern

Oct. 2001-July 2002

- *Assisted in the MNU project to improve the understanding of the genomics of transgenic and carcinogenic mice*
- *Conducted PCR experiments to genotype wild and knockout mice*
- *Handled agarose gel electrophoresis procedures to identify the alleles of knockout mice*
- *Captured pictures to illustrate results from above procedures*

### CANDAX-ME McNair Scholars Program-Notre Dame University, Notre Dame, IN

#### Biochemistry Intern

June-August 2001

- *Experimented with the enzyme yeast enolase in Fenton Chemistry*
- *Studied the different types of metal ions involved in the catalysis of Yeast Enolase*
- *Conducted assays to verify for inactivation of Yeast Enolase at specific pH of 6.5*
- *Analyzed results through SDS-PAGE procedure*

**Brackenridge Children's Hospital- Pharmacy Department, Austin, TX****Pharmacist Volunteer/ Intern**

Jan.-May 2001

- *Assisted Pharmacist in supplementing medicine to customers*
- *Oversaw Pharmacist and Pharmacy Technicians in the techniques used to calculate concentration and amount of medicines administered to customers*
- *Organized medicines and applied blood pressure exams on customers.*
- *Translated between non-speaking English customers and the staff at the pharmacy*

**Monsanto Company, St. Louis, MO****Agricultural Biotechnology Intern**

June-August 2000

- *Researched techniques to reduce the amount of foaming present in physical plants*
- *Investigated the properties of the copper catalyst in the Round-up Program*
- *Activated DSIDA column and conducted timed experiments to observe the properties of foam*
- *Oversaw and conducted various analytical techniques and procedures to understand effects of foam on standardized column*
- *Rotated around molecular, physical chemistry, and analytical chemistry labs to learn procedures for future reference*

**St. Edward's University Career Opportunity and Internship Office, Austin, TX****Peer Mentor (Title V Grant)**

June 2002-Present

- *Mentored college students in the areas of Biology, Biochemistry and Chemistry*
- *Researched internships and guided science majors in career orientation around professional goals*
- *Coordinated workshops to expose current internships, post baccalaureate and medical programs*
- *Served as assistance in academic events such as career symposiums and graduate fairs.*
- *Handled office tasks such as clerical duties and marketing designs*

**ACHIEVEMENTS IN SCIENCE**

*President -Academic Society for the Advancement of Minorities in Medicine (ASAMM) 2002-2003*  
*Ronald E. McNair Scholar/Presenter at the 2001 National Conference-Madison Wisconsin*  
*National Science Foundation Teaching Scholar at Allison Elementary & Linder High School 2001-present*  
*Student Representative for St. Edward's School of Natural Sciences 2002-2003*  
*Undergraduate Presenter at the 2001 & 2003 SACNAS National Conference*  
*Undergraduate Presenter - 2002 Southwest Regional ACS and 2003 ACS National Conference*  
*Undergraduate presenter at St. Edward's 2002 SOURCE Symposium*

**PROFESSIONAL AFFILIATIONS AND SERVICE**

*AmeriCorps Member and Mentor at Linder Elementary, Community Mentor Program, 2000-2001*  
*Community Service Coordinator for Hispanic Student Association, 2002-2003*  
*Math/Chemistry tutor for Junior League Hispanic Mother-Daughter Program at University of Texas at Austin, 2000-present*  
*United Medical Center Pharmacy Student Volunteer, December annually 1999-2002*  
*Student Director of St. Edward's Ballet Folklórico, 2002-present*  
*St. Edward's University College Assistance Migrant Program Scholar and Student Leader, 1999,2002-2003*  
*Eucharistic Minister at St. Edward's University Our Lady Queen of Peace Chapel*

**SCHOLARSHIPS**

*College Assistance Migrant Program Scholarship 1999-2000*  
*St. Edward's University Service Scholarship 2000-2003*  
*Monsanto Academic Scholarship 2000-2001*  
*Mitchell Houston Scholarship for Minority Students in the Sciences 2002-2003*  
*Teaching Scholar Partnership (TSP) Scholarship 2001-2003*  
*AmeriCorps National Service Scholarship 2001*  
*Welch Foundation Scholarship 2002-2003*  
*Orton Family Scholarship 1999-2000*  
*Farmworker's Migrant Scholarship 2000*  
*Sam Walton-Wal-Mart Scholarship 1999-2000*  
*Nation's Bank Scholarship 2000-2001*