

GREGORY ESTRERA

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EDUCATION

University of Texas at Austin

Major: Biology **Minor:** Business

Cumulative GPA: 3.86

Science GPA: 3.80

Bachelor of Science & Arts: May 2021

Relevant Coursework: Biology, Chemistry and Lab, Sociology, Genetics, Organic Chemistry and Lab, Psychology, Biochemistry, Biostatistics, Physiology, Physics, Physics Lab

RELEVANT MEDICAL EXPERIENCE

Vascular Surgeon Shadow: Houston Vein Specialists, Houston, TX

August

2018

- 3 weeks of working with and shadowing vascular surgeons
- Contributed to preparation of patients for physician
 - Assisted in blood pressure monitoring, patient history and physical, treatment room preparation
 - Aided physician in preparation of medical devices and procedure
 - Helped in treatment room clean up

Orthopedic Surgeon Shadow: TMI Sports Medicine & Orthopedics, Dallas, TX

June

2018

- Shadowed Surgeon during pre and post operative interviews
- Observed spinal reconstruction and hip and knee replacements
- Observed physical therapy procedures

Cardiovascular - Thoracic Surgeon Shadow: McGovern Medical School at UT Health, Houston, TX

June

2018

- Shadowed surgical rounds with attending cardiac surgeon and fellows
- Observed cardiac surgery

RESEARCH EXPERIENCE

Research Assistant, Microbiology Lab, University of Texas at Austin

May

2019 - Present

- Developed a split-GFP tag to mark secreted proteins in order to quantify the level of secretion by gram-negative bacteria
- Acquired skills include bacterial cell culturing, bacterial plasmid transformation, fluorescence assay, limited genetic analysis, DNA electrophoresis, DNA extraction and purification

Inventor's Fellowship

June

2020 - Present

- Received a fellowship for the development of a gut model to study antimicrobial therapies
- Investigating the use of microcins as an alternative to antibiotics in the treatment of gut infections

EXTRACURRICULAR ACTIVITIES AND LEADERSHIP

University of Texas Club Sports: Men's Lacrosse Officer

May

2018-Present

- 2020 President of UT Lacrosse Team - responsible for overseeing all organizational activities of the men's lacrosse team
- 2019 UT Lacrosse Equipment Manager - managed, designed and ordered equipment for the men's lacrosse team
- 2018: Assistant Equipment Manager- managed, designed and ordered equipment for the men's lacrosse team

University of Texas Club Sports: Men's Lacrosse Team

May

2018-Present

- Played Defensive midfielder

- Participated in hosting a tournament for youth lacrosse players in order to promote the sport and encourage physical activity and teamwork
- Elected President of the organization Senior year, responsible for overseeing all organizational activities

Houston Food Bank

- Volunteered preparing meal boxes for senior citizens and families at the Houston Food Bank

We Are Blood: Blood Bank

- Volunteered at the recovery room for blood donors, offering support and care for those who donated blood.