

Monzer Alatrach

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EDUCATION

The University of Texas at Austin, Austin, TX

May 2021

Bachelor of Science and Arts in Biology, 3.69 GPA

- Minor in Arabic
- **Honors & Awards:** American Druze Society Houston Chapter Scholarship Award, University Honors, Undergraduate Research Fund, StudentsCare Buddy of the Week, StudentsCare Buddy of the Month

RESEARCH EXPERIENCE

MD Anderson Cancer Center, Houston, TX

June 2016 – August 2018

Undergraduate Lab Rotation

- Shadowed and worked under a Post-doc in the Melanoma/Myeloma/Lymphoma Lab on a novel immunotherapy known as Epitope Hunters
- Synthesized and massed peptides using a mass spectrometer to use in assays to identify novel peptides
- Performed cell culture on multiple cell lines for peptide binding assays and flow cytometry
- Shadowed oncologists during patient rounds and observed stem cell transplantations

UT Austin Freshman Research Initiative, University of Texas at Austin, Austin, TX

August 2017 – December 2018

Undergraduate Research Assistant

- Investigated the effects of the human Hist1H4G gene by transforming the human H4 gene variant to replace the Hhf1 gene in *S. cerevisiae* using CRISPR/Cas9
- Cultured GFP containing *E. coli* and isolated the CRISPR/Cas9 +GFP plasmid to be edited
- Utilized PCR to replace the GFP in the plasmid with the gRNA sequence used for yeast transformation
- Cultured *E. coli* with edited plasmid to amplify plasmid sequence for yeast transformation

UT Austin Bittner Laboratory, University of Texas at Austin, Austin, TX

December 2018 – Present

Undergraduate Research Assistant

- Performed polyethylene glycol fusion single cut surgeries on 37 Sprague Dawley rats and successfully demonstrated recovery
- Performed polyethylene glycol fusion allograft surgeries on 2 Sprague Dawley rats
- Collected and analyzed rat functional recovery through the use of the Sciatic Functional Index and Selective Functional Movement Assessment
- Organized and headed workshops to teach newcomer undergraduate researchers Sciatic Functional Index and Selective Functional Movement Assessment testing and grading
- Assisted undergraduate research colleagues in learning methods for micro suturing and electrophysiological testing in-vivo and ex-vivo for rat sciatic nerves
- Harvested sciatic nerve samples from Sprague Dawley rats and successfully maintained nerve viability in various saline solutions
- Researched and analyzed various saline solutions' efficacy in ex-vivo nerve viability through ex-vivo Compound Action Potential recordings

WORK EXPERIENCE

Pizza Hut, Katy, TX

June 2018 – August 2018

Delivery Driver

- Delivered pizza and food to customers in the Katy area in a timely manner
- Executed closing protocols to ensure restaurant is tidy and food remains fresh for the next day
- Answered phone calls and carried out customer orders with professionalism and customer etiquette
- Organized training session for new hires to learn store products and delivery etiquette

Family Dental Corner, Richmond, TX

June 2019 – Present

Front Desk

- Sanitized and arranged the patient rooms in a timely manner before patients were seen by the dentist
- Answered phone calls and scheduled patients for appointments and meetings with the dentist
- Greeted patients and business partners and conveyed professionalism and medical etiquette

University of Texas at Austin, Austin, TX

August 2020 – December 2020

Undergraduate Teaching Assistant

- Assisted Dr. Bittner and students in the NEU 365N/381N Basic Processes of Nerve Cells course at UT Austin
- Answered students' questions on general course subject and project assignments outside of class time hours
- Organized a class student roster sheet and attended lectures to keep track of an attendance list for each student
- Contacted students and created Canvas announcements to convey messages from Dr. Bittner to the class

- Returned assignment comments and input student assignment grades in a timely manner

COMMUNITY INVOLVEMENT & LEADERSHIP

American Medical Student Association, Austin, Texas

August 2017 – December 2019

Member

- Attended lectures and seminars by doctors and medical recruitment personnel from Texas medical schools
- Sorted and distributed food donations for Texans experiencing food insecurity at the Central Texas Food Bank
- Headed the runner hydration station and t-shirt station at the Central Texas Warrior Dash to raise money for an Austin based non-profit organization

Delta Epsilon Mu, Austin, Texas

January 2018 – February 2021

Fundraising and Recruitment Committee

- Spread organizational awareness through social media techniques to target prospective members
- Tabled during passing periods with fellow recruitment members to spread awareness and provide information for prospective members
- Interviewed prospective members and evaluated applicants with fellow recruitment members to be accepted for the semester Delta Epsilon Mu incoming class
- Tabled during passing periods with fellow fundraising committee members to raise money for the Austin based non-profit organization Socks for the Sole by selling baked goods and drinks to students and staff

Arab Students Association, Austin, Texas

August 2018 – Present

Member

- Attended the Middle Eastern Culture Night: Art as Resistance to learn more about Arab culture
- Attended the Mediterranean Festival in Austin to experience the food and customs from Mediterranean countries

University of Texas at Austin Athletic Department, Austin, Texas

August 2019 – Present

Volunteer

- Timed swimming and diving athletes in various events at a UT mid-season meet and the Big XII Championship swim meet
- Operated the score board and executed statistic collection for the flag football athletes at the NCS Regional Flag Football Tournament

Texas Sports Analysts Group, Austin, Texas

August 2019 – Present

Analyst

- Collaborated with other members in using statistical criteria to determine a mock 2021 NBA All-stars East and West roster
- Utilized Basketball Reference, Excel, and R to analyze the offensive effect that Stephen Curry displays when he is on the basketball court through the use of Offensive Rating, lineup assessment, on/off measurements, and corresponding teammate ratings

StudentsCare, Austin, Texas

July 2019 – Present

Buddy Booster Officer and Hospital Buddy

- Created an enjoyable and structured atmosphere for patients in the hospital experiencing a long-term stay
- Assisted the Child Life Office with organizing gift donations and gift distributions to patients throughout the hospital
- Generated storytelling videos of children's books to be shared with patients at Dell Children's Hospital during the ongoing pandemic
- Organized the Dell Children's Hospital Winter Wonderland toy drive collection and assembled the donations into holiday gift baskets for the patients
- Facilitated various fundraising events for Dell Children's Hospital such as the Kendra Scott profit share and a valentine's flower gram event
- Spearheaded recruitment efforts through social media techniques leading to greater organizational awareness on campus and increased applicant volume to compensate for the loss of members due to graduation

Dell Medical School Impact Corps, Austin, Texas

January 2021– Present

NACER Project Team Leader

- Collaborated with NACER and Dr. Sharp of the American Institutes for Research to evaluate the NACER project implementations and outcomes of the NACER initiative
- Headed the Impact Corps NACER project team by curating a Scope of Work and delivering the project objectives in a timely manner