

Shivani Madhav

2215 Rio Grande Street Unit 516-B, Austin, TX 78705

972-510-3928 | shivanikrs@gmail.com

EDUCATION

University of Texas at Austin | College of Natural Sciences

Austin, TX

Bachelor of Science and Arts

Graduation: May 2021

- **Major:** Biology // **Minor:** Business
- **GPA:** 3.7

CLINICAL EXPERIENCE

Downtown Dental Design

Austin, TX

Shadowing

December 2018-Present

- Shadowed Dr. Negar Eslami in a general and restorative dentistry practice in downtown Austin.
- Viewed procedures involving crowns, bondings, fillings, Invisalign, as well as regular check-ups.
- Gained understanding of the gradual changes that come with owning a private practice over a longer period of time and how this affects the dynamic of a dental team.

Pristine Orthodontics

Plano, TX

Shadowing/Hands-on Practice

January 2020

- Shadowed Dr. Nimesh Patel and observed procedures and consultations involving expanders, braces, Invisalign, and retainers. Some procedure watched were bonding/unbonding, tightening, and cinching of braces.
- Observed differences in working with adult versus pediatric patients and how this affects treatment plans. Also got exposure to using different languages to communicate with patients to tell them about payments/procedures.
- Gained hands on experience with making molds for retainers and expanders. Learned how to use water pressure to sand down molds before sending off to labs.

Endodontics Association of Frisco

Frisco, TX

Shadowing

December 2019

- Shadowed Dr. Robert Hale in an endodontics team practice.
- Saw numerous root canals and was able to observe during minor surgeries such as Apicoectomies.
- Learned how to accommodate for patients who experience dental anxiety, substance abuse, and limited payment options.
- Got to see how fast paced clinics work and got more on insight on how insurance plays a monumental role in dental practices.

LEADERSHIP/SERVICE

UTeeth for the Youth

Austin, TX

Student Volunteer and Committee Member

August 2019-Present

Description: The goal of this organization is to educate young children who may not have the resources needed to maintain good oral health. All of the schools visited were in lower socioeconomic areas and many did not have the proper funding to have good facilities or enough staff for students. Most places the younger kids would only speak Spanish, so we would have to adjust the curriculum so they could follow.

- Visited underprivileged pre-schools and elementary schools and gave children ranging from Pre-K to 5th grade presentations on how to maintain good oral health.
- Created interactive activities/worksheets to help children engage in lessons.
- Allotted free kits filled with toothbrushes, floss, and toothpaste for every student to ensure they could continue maintaining safe oral hygiene in day-to-day lives.

Texas Lassos

Austin, TX

Active Member

August 2019- Present

Description: This organization is a spirit and service group which supports Down Syndrome Association of Central Texas (DSACT).

- Helped create opportunities to kids with down syndrome and also gave support to the families that are affected by down syndrome by raising funds and participating in Buddy Walk/Dance Parties/Fun Run.
- Volunteered at places such as the UT Microform and Lassos Garden to understand more about current environmental issues as well as encourage sustainability throughout the UT Austin campus.
- Started a book drive on campus for students ranging from KG-8th Grade. Books were donated to underprivileged schools and focused on helping non-native English speakers. Collected, sorted, and delivered books to Book springs.

Kappa Rho Pre-Health Women's Honor Society

Austin, TX

Active Member

September 2017- Present

- Participated in numerous volunteer activities that encouraged young girls into STEM and also raised awareness about pre-health professions to females at UT Austin.
- Joined the Kappa Rho Texas THON team which served to raise funds for children and their families at Dell Medical Center.

North Texas Food Bank/Central Texas Food Bank

Dallas/Austin, TX

Volunteer

June 2017- Present

- Packaged and sorted through donated foods to provide meals that may be sent to a food pantry or given directly to those who may need.

RESEARCH

Bio-Bricks for Molecular Machines Lab

Austin, TX

Student Researcher

January 2018- December 2018

- Mastered lab techniques to prep, transform, purify, and clone DNA
- Researched the effects of CDX2 on DNA repair binding sites. CDX2 is a protein homeodomain that is responsible for ATM kinase inhibition and transcription of DNA. ATM inhibition is linked to neurodegenerative diseases, immunodeficiency, and sensitivity to DNA damage in human cells.
- Experimented on CDX2 mutant D195A via expression and purification methods.
- Conducted follow up research based on published article.

Participant, Undergraduate Research Symposium

- Discussed lab techniques involving transformation, expression, and purification, of proteins as well as SDS-PAGE and Western Blot analysis.
- Presented poster regarding research on E. Coli bacteria and purple protein purification at the UT Austin Undergraduate Research Symposium.

PROFESSIONAL EXPERIENCE

Texas Athletics

Austin, TX

Undergraduate Content Tutor for Intercollegiate Athletes

January 2020- Present

- Tutored student athletes one-on-one in biology and general/organic chemistry.
- Developed lesson plans and provided academic resources to athletes. Continuously met with the same students to assess how they are progressing in certain subjects.

Nekter Juice Bar

Dallas, TX

Team Member

May 2018-August 2018

- Demonstrated strong understanding about nutritional juices and helped communicate this to customers and other employees.
- Responsibilities consisted of cleaning, being cashier, handling food orders, and giving an energizing guest experience.

Spanish Tutor

Dallas, TX

Self-Employed Tutor

June 2017/2018

- Taught beginner level Spanish to 7th graders and 8th graders.
- Created study strategies, lesson plans, and curriculum for middle schoolers to follow over the course of the summer.

AWARDS

- **University Honors (Spring 2018 to Spring 2020)**- maintained full course load and GPA over 3.5.
- **Undergraduate Research Symposium (Fall 2018)**- BioBricks won “Award for Best Research Stream” for Purple Protein project.
- **Distinguished Philanthropy Lasso (Fall 2019)**- Surpassed expectations for Lasso Philanthropy commitment for the Fall 2019 semester via more service to the Down Syndrome Association of Central Texas.