

Kajal Patel

1711 Old Spanish Trail Apt 131 Houston, TX 77054
(713)-240-5993 – kajal.a.patel@uth.tmc.edu

EDUCATION

McGovern Medical School, Houston, TX

2020 - Present

MD Anticipated 2024

The University of Texas at Austin, Austin, TX

2015 - 2019

Bachelor of Science and Arts in Biology

- Certificate in Business Foundations; GPA (3.95)

RESEARCH EXPERIENCE

Texas Children's Hospital- NICU Research Department, Houston, TX

June 2018—May 2019

Research Assistant to Dr. AnnaMarie Arias-Shah, MD, FAAP

- Constructed codes on MatLab to extract data for over 15,000 NICU patients including their PaCO₂, EtCO₂, and O₂ percentages
- Analyzed data to determine correlations between EtCO₂ and PaCO₂ levels in hopes to implement non-invasive, end-tidal carbon dioxide monitoring practices
- Observed Dr. Shah as she visited patients and obtained informed consent on participating on future clinical trial

BioBricks for Molecular Machines, Austin, TX

January—May 2016

Research Assistant to Dr. Soo-Hyun Yang

- Extracted a gene of interest from purple coral in order to construct oligonucleotide primers prior to the amplification of the gene
- Constructed ZeroBlunt vectors including the gene of interest to facilitate bacterial transformation
- Performed PCR, gel electrophoresis, DNA extraction and purification, transformation of bacteria, molecular DNA cutting and pasting, and recombinant protein expression and purification

CLINICAL EXPERIENCE

Houston Methodist Hospital, Houston, TX

Summer 2016—May 2019

Shadowed under Dr. Hemangshu Podder, MD (Organ Transplant)

- Participated in team rounding in clinic to provide multidisciplinary care to patients receiving kidney, heart, pancreas, liver, and/or lung transplants
- Traveled to various cities in Texas with the transplant team and scrubbed into transplant operations in an operating room
- Shadowed various doctors at Houston Methodist in fields including Pulmonology, Internal Medicine, Emergency Medicine, NICU, PICU, and more

RC Health Services, Austin, TX

March 2019—May 2019

Emergency Medical Technician

- Under ambulatory services, collected vitals and patient history and presented findings to healthcare team upon arrival to emergency room
- In emergency room, preformed EKGs, assisted nurses in triaging patients, and prepared dosages for medications
- Plan to work under local ambulatory services and emergency rooms over the summer and following year

Global Medical Brigades, Esteli, Nicaragua

December 2017

Volunteer Medical Brigader

- Triaged roughly 1000 local Nicaraguans while gathering vitals and patient histories
- Shadowed physicians and dentists during consultations and assisted in pharmaceutical administration
- Coordinated with team in building sustainable water ducts that could store clean, drinkable water

LEADERSHIP AND ORGANIZATIONS

Women's Health Elective Director, Houston, TX

Feb 2021—Current

Elective Director

- Will design an elective course covering important topics relevant to women's health
- Spreads advocacy on current legislation important to women's health

University of Texas at Austin, Sanger Learning Center, Austin, TX

August 2018—May 2019

Tutor

- Tutored students one-on-one on a variety of undergraduate science courses
- Utilized Socratic method of teaching to allow student to engage in sessions and increase competency
- Assisted staff in hiring new tutors by helping to conduct interviews and providing input on applicants' teaching performances

MCAT Committee Board

- Developed curriculum for Sanger's inaugural MCAT workshop
- Coordinated and facilitated future medical school application workshops

Research Committee Member

- Created flyers, planned research symposiums, and facilitated research networking events in order to advocate for student involvement in research opportunities
- Reorganized and revised undergraduate research database (*Eureka*) in order to make it more accessible to students

SKILLS

Technical/Computer Skills: Excel, R Studio, MatLab (novice)

Languages: English, Gujarati, and Spanish (novice)

Hobbies: Swimming, Piano, Baking