

# Ragd Sami Elsaigh

Biochemistry & Biophysics Undergraduate Student at  
Texas A&M University  
Prospective PhD/MD Student, Cancer Researcher, and  
Pathologist  
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**Personal Statement & Career Outlook**  
A diligent and committed student who is prepared to learn and put forth an honest effort. Strong team-worker, critical-thinker, and communicator. Enjoys challenging, hands-on work, growth opportunities, and contributing a positive energy to her work environment. My goal is to contribute novel findings in my profession and to use my specialty to serve those in my community.

## EDUCATION

**James E. Taylor High School, Katy, TX —**

**High School Diploma (MAY 2023) GPA:**

**4.5294/5**

**Texas A&M University, College Station, TX —**

**Biochemistry Bachelor's of Science Degree**

**(MAY 2027) GPA: 3.903**

## COMMUNITY INVOLVEMENT, PROFESSIONAL & CIVIC ACTIVITIES

**TAMU BioMedathon, 2024**

- Professional development competition organized by TAMU Biomedical Sciences Association
- 48-hour research experience
- Worked as part of a team to design a feasible and practice wearable health device that has not been invented before.
- Device was judged based on need and addressing of a current and relevant health concern, financial feasibility, marketing technique, safety/practicality, & overall oral presentation performance
- Designed the Innovative Alzheimer's Smart Stent as part of a team, an implantable device that is used for early detection of Alzheimer's disease to better treatment efficacy as well as quality of life & lower treatment cost for patients

**Chemistry Open House Volunteer- Texas A&M, 2023**

- Helped guide and introduce 2023 Chemistry Open House Visitors to displays & resources within the Chemistry Department at TAMU
- Helped organize events and interactive performances ensuring needed supplies were provided, and properly cleaned up afterwards

**Global Welcome Party Volunteer- Texas A&M, 2023**

- Assist with food distribution to guests and answering any queries
- Kept record of volunteer sign-up and check in

**National Honors Society (NHS)**

- Elected Secretary & Treasurer
- Documented information at meetings and coordinated future club plans
- Contributed to the community through completing over 50 hours of community service in environmental, humanitarian, governmental, religious, and educational institutions.

**Maud Smith Marks Public Library**

- Shelved books and performed clerical tasks
- Helped visitors with inquiries

**Health Occupational Students of America/  
Project CURE**

- Blood drive organization and donor care
- Regional winner in Forensic Science
- Packaged Medical supplies to be sent to underserved areas or those facing medical crisis

## AWARDS AND CERTIFICATIONS

- Semi-Finalist for the Freshman Gathright Phi Kappa Phi Dean's Excellence Award in the College of Agriculture & Life Sciences - Summer 2024
- Biochemistry Departmental Honors and University Honors Programs - Spring 2024
- Deans Honor Roll- Fall 2023
- BLS,CPR, & AED- Certification Exp. Date: Nov. 2025
- Valid Class C Drivers License
- AP scholar with Distinction Award -mastery of over 10 AP courses
- High Honors graduate (top 10% of class #49/641 students)
- National Merit Scholarship Commended: Scored 1470 on SAT
- Fluent Arabic Speaker

## Career Progression & Work Experience

**Summer Undergraduate Intern in Dr. Ramos's Lab, Institute of Biosciences and Technology- Summer 2024**

(12-15 hours/week) Trained on how to perform Western Blot, Real-time PCR, and cell culturing to compare samples of different lung cancer cell types and their expression of Line-1 when compared to control cells. Trained on mice dissection.

**Undergraduate Researcher in Dr. Kurouski's Lab- 2023-Present**

(6-10 hours/week) Conduct data collection using confocal Raman spectroscopy to scan various blood samples, with hopes of utilizing Infrared laser to detect HIV infectious blood samples from pigs. Learning multiple skills and procedures by shadowing and training under senior lab members. These include: handheld Raman, nanoparticle synthesis, Nano-IR, AFM, HPLC, and protein and purification procedures.

**Weekend Math & Language Arts Tutor at ClassUp- 2023- Present**

- Part-time online tutor, 4-5 hours/week. Tutor students of various grade levels for long-term classes, on various English Language Arts concepts as well as Mathematics concepts.

**EMS Dispatcher Trainee with BLS Certification- Jan. 2024- Aug. 2024**

- TAMU EMS Dispatcher Trainee (5-12 hours/week)
- Utilizing multiple programs (ProQA, radio systems, RapidSOS) to quickly access the patient and send unit
- Developing multitasking and critical communication skills
- Ensuring organization and timely delivery of needed resources to crew and patient

**SEEML Labs (Microbiology Lab) Intern- Jan 2023-Jun 2023**

- Logged reports of analyst findings onto templates using Microsoft Excel for each project
- Worked as a front desk clerk, taking client orders, addressing concerns, and greeting clients when receiving spore samples at the front desk
- Completed over 100 hours learning laboratory functions, tests, and regulations
- Prepared 150+ slides for spore samples brought by clients
- Helped with major environmental assessment projects from companies all over the U.S.
- Analyzed bacterial, fungal, and pollen spores under a microscope

**Pediatrician Shadow- Katy, TX -Sept.2021-Mar. 2022**

- Shadowed a local Pediatrician (Unnissa Iftekhar M.D) for a total of 6 months
- Filed confidential patient pathology documents and visit reports, helped nurses assess vitals and schedule appointments online.
- Observed Dr. Iftekhar as she assessed and diagnosed patients.

**Texas A&M Honor Council Panel Member- 2023-Present**

A committee that receives Aggie Honor Code Violation reports and investigates the details surrounding the case, in order to serve as an intermediary between student and instructor, and to provide a judgement that is based on a holistic review of the case.

- Serve as a voting panelist on Aggie Honor Code Violation hearings, conferences, and appeals.
- Observe the value of upholding integrity and the meaning of the Aggie Code of Honor
- Utilize established Aggie Honor Code rules, evidence, and testimonies to make supported judgements to better student upholding of integrity and ensure academic success
- Produce reports for rulings and justification for sanctions or decision made
- Work alongside a team of panelists to deliberate and agree on an appropriate decision

**Student Research Week Executive Committee- 2023- 2024**

- A committee that organizes and conducts Texas A&M's largest annual student- run Student Research Week Symposium
- 2023-present, SRW Logistics & Technical Coordinator
- Managed SRW website and including a variety of information and resources for students to access while preparing for the event
- Created event schedule and organized room bookings for the event with MSC coordinator
- Manage, plan, and report costs, orders, & supplies needed for the event
- Participated in event promotion and flyer creation/ distribution
- Developed effective marketing and action-plans with other executive officers weekly to ensure event success.
- Oversaw the event and learned about different research projects being conducted on campus from multiple disciplines.