

MOHANAD ELCHOUEMI

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EDUCATION

The University of Texas at Austin	Bachelor of Science in Computational Biology	Expected May 2023
	Cumulative GPA: 4.0	

EXPERIENCE

Cenik Lab, Austin, TX	December 2020 – Present
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Undergraduate Researcher

- Working on a project developing a computational framework to predict protein abundance using transcriptome-wide measurements of translation and RNA expression.

Covid 19 Consortium, Austin, TX	September 2020 - Present
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Research Assistant

- Standardized Covid-19 data received from Austin and the state of Texas to improve model projections
- Contributed to data warehouse with standardized data pipelines.
- Gained experience in data cleaning (using R), normalization and pipeline.

Urban Ecosystem Analytical Chemistry Team, Austin, TX	June 2020 – December 2020
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Student Researcher

- Collaborated with Dr Barbara Mahler from the United States geological survey.
- Used data analysis/mining techniques to analyze data collected over 5 years by the professor.
- Attained fluency in R.
- Worked on a project that is focusing on Multivariate Analysis of Chemical Signatures Between 5 Regions in the US.

January 2021 – Present

Student Research Mentor

- Assisted Students in their own research computational projects.
- Helped lead weekly student and mentor meetings.

Freshman Research Initiative, Luminators Lab, Austin, TX	January 2020 - May 2020
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Student Researcher

- Characterized and synthesized photoluminescent lanthanide coordination complexes.
- Utilized X-ray crystallography to determine structure of the crystalline solids.
- Used UV/Vis fluorescence to determine light emitting properties of compounds made.

Biodiversity Discovery Laboratory, Austin, TX	May 2018 - July 2018
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Student Researcher

- Conducted genetic analysis of fire ants from nearby UT field station in Smithville.
- Performed DNA extractions, polymerase chain reactions, and gel electrophoresis.
- Curated Specimens from UT Herbarium.

Great Hills Country Club, Austin, TX	June 2019 - Present
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Associate Tennis Coach

- Taught various private tennis lessons with clients of ages ranging from 4 to 80 years old.
- Coached various winter, spring, and summer weeklong camps for 4 to 10 year old clients.

VOLUNTEERING

Austin Partners in Education, Austin, TX	October 2020 - Present
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Mentor

- Mentoring an 11-year-old refugee in the Austin Independent school district.
- Meet weekly to discuss to talk or play games via zoom.

North Austin Muslim Community Center Food Pantry, Austin, TX	July 2017 – May 2020
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Week 4 Team Leader & Volunteer

- Distributed food packages to over 300 families in the North Austin area.
- Translated for many families who could not speak any English.
- Managed a team of 10-20 volunteers every 4th week of the month.

UT Outreach: Project Finish Line, Austin, TX

January 2020 – Present

Tutor & Member

- Working with low-income high school students in the Austin area.
- Tutored through zoom students with their homework assignments.
- Guided high school seniors in their application to colleges.

United Mission for Relief and Development, Austin, TX

September 2019 – Present

Member

- Created over 100 hygiene packages and distributed lunch to the homeless every second Sunday of every month.
- Tabled to help raise money for refugees in countries that were in need: Yemen, Syria, Lebanon and many others.

CLINICAL/ MEDICAL EXPERIENCES**Dell Seton UT Austin, Austin, TX**

January 2020 - Present

Student Volunteer

- Assisted nurses by taking room calls from recovering patients and relayed important messages to the nurses.
- Delivered requested food items to patients to help the CNAs.

New Century Hospice, Austin, TX

January 2020 - Present

Hospice Volunteer

- Comforted patients who were nearing the end of their life. Included reading childhood stories or just listening to music.
- Connected with fellow volunteers, including other college students to 60-year-olds.

Al Saraya Hospital, Alexandria, Egypt

Dec. 2019 – Jan. 2020

Observer

- Shadowed, Dr. Amal Ahmed and Dr. Mohamed Al Rahmani, an internal medicine doctor and a neurosurgeon at Al Saraya hospital.
- Was able to enter the ICU and see patients while the doctors and their nurses did their rounds at the hospital.

Associated Neurological Specialties and Sleep Disorders Center, Austin, Texas

June 2019 – July 2019

Observer

- Shadowed, Dr. Rani Das, a neurologist at her clinic.
- Was able to dialogue with patients and ask about their ailments.
- Assisted nurses with their initial check in of patients.

COVID Vaccination at UT Austin, Austin, Texas

March 2021 – Present

Mobility, Observation Volunteer

- Assisted the elderly with getting in line for vaccination
- Guided those who were vaccinated through a post vaccination packet.

Hobbies

- Tennis – Love to play tennis. Spend summer and winter breaks playing almost every day. Play UTR and USTA tennis league tournaments.
- Soccer – Play on Intramural soccer team with my friends. Won Co-ed A draw soccer in Fall 2019.

SKILLS

- **Languages:** Full Arabic proficiency
- **Computer/Technical Skills:** Proficiency in R, Intermediate in Python
- **Laboratory Skills:** PCR, X-ray crystallography, gel electrophoresis,

HONORS AND AWARDS

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| - University Honors | Fall 2019, Spring 2019, Fall 2020 |
| - College of Natural Sciences 2021 Second Year Excellence Award | Spring 2021 |
| - College of Natural Sciences Distinguished College Scholars | Spring 2021 |