

Kevin Yuan

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Objective

To obtain hands-on research experience in a laboratory environment to develop and build my research skills and contribute to a research project.

Skills & Abilities

- Passion for research
- Initiative to look for opportunities/projects and see them to completion
- Technical laboratory skills learned from high school, York University Helix Program, University of Toronto CHM151 and BIO130 such as ELISA, DNA extraction, culturing cells, etc.
- WHMIS trained and strictly follows health and safety procedures
- Works efficiently independently and in a team environment; listens carefully to instructions
- Adept at using ChemDraw, all Microsoft Applications, Adobe Photoshop
- Working knowledge of Java, Python

Laboratory Experience

ADVANCED MEMBRANES LAB | MAY 2022 - PRESENT

- Researched synthesis and aqueous polymerization of charged monomers
- Honed synthesis, purification, polymerization techniques

YORK UNIVERSITY HELIX PROGRAM | JULY 2018 - AUGUST 2018

- Gained experience with micropipettes, cell cultures, gel electrophoresis, ELISA, TLC, and Drosophila and mosquito dissections
- Learned essential concepts about pharmacology, blood-borne diseases, and microbiology

UNIVERSITY OF TORONTO SCHOOLS LAB ASSISTANT | SEPTEMBER 2019 - MARCH 2020

- Prepared solutions from stocks
- Labelled materials and solutions and prepared them for labs; took inventories of existing materials
- WHMIS trained
- Worked both independently and under the guidance of the laboratory supervisor

Relevant Volunteer Work & Extracurriculars

CHEMISTRY STUDENT UNION SECRETARY | SEPTEMBER 2021 - PRESENT

- Worked with other CSU members to plan, organize, and host academic seminars, and social events
- Implemented feedback into CSU events to better cater to student body
- Honorable Mention for 2022 Canadian Society for Chemistry Student Chapter Merit Award

SOUTHERN ONTARIO UNDERGRADUATE STUDENT CHEMISTRY CONFERENCE COMMITTEE MEMBER | SEPTEMBER 2021 – APRIL 2022

- Set up virtual GatherTown conference for 250 attendees
- Attended weekly progress check meetings to debrief and set goals for next week
- Trained moderators and help-desk volunteers; actively communicate with team leads
- Overcame setbacks and failures; created plans, timelines, and goals to meet deadlines

CHM151 REGISTERED STUDY GROUP LEADER | SEPTEMBER 2021 – APRIL 2022

- Led discussions on class material; develop study strategies for group members
- Met with RSG study group assistant to discuss feedback and plans for study sessions

PROJECT: UNIVERSAL MINDS TUTOR | SEPTEMBER 2021 – JUNE 2022

- Help struggling students improve in math by breaking down important equations and concepts and demonstrating problem solving strategies
- Maintain consistent, professional communication with students

CHEMISTRY TUTOR | JULY 2020 – AUGUST 2020, JANUARY 2022 – APRIL 2022

- Create personalized one on one lessons with students using original lessons plans to teach important chemistry concepts and equations
- Break down difficult concepts and explain them using layman's terms

COORDINATOR OF FACE SHIELD DELIVERIES | JULY 2020 – AUGUST 2020

- Contacted Long Term Care Homes across the GTA to deliver free face shields in coordination with the Toronto General Hospital and the University of Toronto; over 5000 face shields donated

Education

BIOCHEMISTRY SPECIALIST | SEPTEMBER 2021 - PRESENT | UNIVERSITY OF TORONTO

- University of Toronto Scholar Scholarship
- GPA: 4.0
- CHM151Y1: Chemistry: The Molecular Science
 - Developed good scientific writing habits by writing multiple formal laboratory reports
 - Learned foundational laboratory skills such as extraction, distillation, chromatography, etc.
 - Conducted multiple literature searches to compare with the experimental data obtained
- BIO130H1: Molecular and Cell Biology
 - Performed various fundamental molecular biology laboratory techniques including DNA isolation, gel electrophoresis, microscopy, etc.
 - Learned fundamental bioinformatic techniques such as sequence searches and comparisons

Selected Achievements

AP SCHOLAR | 2021

CANADIAN CHEMISTRY OLYMPIAD BRONZE MEDAL | 2020

AP CHEMISTRY (SCORE: 5) | 2020

COMPLETION OF 2-MONTH EPIDEMIOLOGY COURSE UNDER THE GUIDANCE OF DR. AMIR M. MOHARAB, M.D. | 2020

AP COMPUTER SCIENCE PRINCIPLES (SCORE: 5) | 2019

Transcript and reference letter available upon request.