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Chloe Wu

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Multipotentialite excited about sustainable innovations for improving consumers' quality of life, leveraging broad-based skills in chemical biology, project management, and user experience.

WORK EXPERIENCE

Suncor Energy Agrosience, McMaster University – Hamilton, ON Jan 2021 – May 2021

Research Laboratory Intern – Bacterial testing & formulation

- Conduct research biotesting for disinfectant efficacy against *Pseudomonas aeruginosa* and *Staphylococcus aureus* under the supervision of Dr. Hoare Lab at McMaster University and the Biointerfaces Institute.
- Synthesize and characterize formulations of antimicrobial coating electropolymeric complexes for long term surface protection, preparing presentations on a monthly basis to present results and research updates.
- Experience with digital light scattering (DLS) for particle size and zeta potential characterization as well as biotesting protocols such as: Single Tube Method for biofilm grown in CDC biofilm reactor, Crystal Violet Assay.

LEAP Canada (supports transition of secondary students to post-secondary opportunities) June 2020 – Present

Marketing Advisor / Board of Directors – Finance & Marketing

- Manage and drive motivation for a team of 10 volunteers to create and execute market research and strategies.
- Led 20+ social media campaigns across Facebook, LinkedIn, Instagram and TikTok, reaching 700,000 students – building skills in project management, leadership and experience in organizational tools like Trello and Notion.
- Set monthly objectives for the professional and personal development of each member within the division to encourage growth within the team and drive motivation to successfully create social media strategies.
- Promoted in one month from graphic designer for involvement and initiative in the marketing department.

Faculty of Chemistry & Chemical Biology, McMaster University – Hamilton, ON Sept 2020 – Present

Chemistry Teaching Assistant

- Tutor a group of 40 first year chemistry students by answering questions, holding study sessions, and moderating discussions through a virtual help desk and dedicated synchronous office hours held on Microsoft Teams.
- Lab instruction and supervision of 20+ students.
- Support first year students in their transition into university in the virtual learning space.
- Received consistent positive student feedback on approachability, clarity and attentiveness.

Harrison Lab, McMaster University – Hamilton, ON May 2020 – Sept 2020

User Interface Developer

- Initiated a web development project after COVID-19 cancelled research to replace professor's outdated lab website.
- Translated complex technical concepts to an appropriate level to personalize website for the end user.
- Self-taught prototyping and coding on Adobe Creative Cloud and React.js to build responsive webpages from scratch to create an easy-to-use and informative user experience targeted to university researchers.
- Active website can be found here: www.chemistry.mcmaster.ca/harrison/.

McMaster Asian Federation of Charitable University Students – Hamilton, ON Sept 2018 – Present

Asian FOCUS is a student-run university organization with a focus in philanthropic contributions while holding cultural and social events to celebrate and emphasize the complexity of Asian culture within our campus and student body.

President

- Create and execute *Humans of AF*, consisting of interview-style features of McMaster students.
- Initiated infrastructure changes, including instructional guides for new executives, a structure for workflow, as well as a new communication platform. Resulting in overall improved club operations.
- Build transparent relationships with club members for efficient communication.
- Initiated and managed promotional merchandise, increasing our campus presence, in addition to creating marketing material for large-scale events, garnering over 500 attendees.

TESTIMONIALS

Dr. Wenzhi Ckurshumova, Research Associate

Suncor Energy, Agrosience – Performance Review

- *Chloe is an extremely quick learner on new protocols, very smart, hard-working, and modest – consistently. She approached work as a learner even after she had developed solid skills in her work area.*
- *She has excellent initiative and is always willing to share the work and help with the tasks. She is very good at time management and can handle multiple tasks during a short time period, consistently generating high quality experimental data.*
- *She can get along well with others and do collaborative work in the team, which included both academic and industry collaborators.*

Dr. Lisha Zhao, Postdoctoral Fellow

McMaster Department of Chemical Engineering – Performance Review

- *Chloe is a very organized and capable researcher who has done an excellent job in her 8-month co-op with us. She is very diligent and is able to finish most of work before deadlines with a high degree of reliability and accuracy.*
- *She is good at taking notes and can identify the unique features in similar procedures without confusion.*
- *She can also clearly remember the details of her experiments to allow her to do repeated experiments in a consistent and reliable manner.*
- *Her time management is also good, and she can handle multiple tasks within one day with different formulations without making errors. She has also been very collegial in working in the lab.*

EDUCATION

McMaster University, Hamilton, ON

2018 – Present

Honours Bachelor of Science (B.Sc.), Chemical Biology Co-op, Minor in Sustainability

Expected May 2023

Courses of instruction: organic, polymer, physical, analytical, inquiry-based chemical biology and computer science.

- Technical skills include instrumental analysis (NMR, HPLC, GCMS), WHMIS, Standard Operating Procedures.
- Senior thesis project:
- Other activities: Chemistry & Chemical Biology (C&CB) Co-op Ambassador, C&CB EDI Committee, Faculty of Science Student Ambassador, NSERC CREATE Training Program for Controlled Release Leaders (ContRoL)

ADDITIONAL SKILLS

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| ▪ Skilled in UI design (Adobe) and web development (HTML, CSS, React.js) | ▪ English, Mandarin, and Cantonese (proficient); French (basic) | ▪ safeTALK Suicide Alertness Certification; Living Work |
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