
MELANIE NIU

EDUCATION AND AWARDS

2020-2024 | University of Toronto

Bachelor of Science - Earth System and Environment, Human Biology, Chemistry Minor

Awards

Daniela and Alexander Tintor Undergraduate Scholarship	2023
Dean's List Scholar University of Toronto	2021, 2022, 2023
Undergraduate Summer Research Awards University of Toronto	2022, 2023
In-course scholarship University of Toronto	2020, 2021
Singapore MOE Full Scholarship (Awarded to 1% students to study abroad)	2004 -2008

PROFESSIONAL EXPERIENCE

Rogers Laboratory, Mount Sinai Hospital

Research Staff | September 2021 - August 2023

- Prepared culture media for cell and whole organ growth using sterile filtration and aseptic techniques. Independently prepared for and performed analytical assays such as Glycosaminoglycan (GAGs) assay, Bicinchoninic acid (BCA) assay following laboratory protocols.
 - Devised and executed decellularization and intercellular transport experiments; performed immunohistological staining.
 - Documented detailed experimental setups and methods; wrote manuscripts outlining the methods, results and discussion of the research projects.
 - Presented the project findings at the Department Symposium.
 - Trained new researchers to follow established protocols used in the laboratory.
 - Requested test orders and track animal status using the LIMS portal.
 - Utilized and maintained laboratory supplies and equipment, such as microscopes, incubators, cell counters; trained in laboratory material handling and safety.
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ADDITIONAL EXPERIENCE

Tim Hortons. September 2014 - February 2021

Manager | December 2016 - February 2021

- Worked with the public health inspectors. Ensured staff followed sanitary practices and the space was inspection ready.
- Passed all public health inspections. Implement corrective actions into the restaurant system
- Coordinate with downtown Tim Horton restaurants to allocate supplies and products
- Conducted daily shift meetings to communicate goals, daily tasks and ensure work activities were executed effectively by the team.
- Supervised the operation, maintenance and cleaning of equipment. Troubleshoot for equipment malfunctioning.
- Promoted a safe work environment through monthly inspections and quarterly health and safety meetings. Escalated any potential hazards, and developed solutions.
- Maintained high standards of food and product quality by reviewing shipments, overseeing preparation and monitoring food safety.
- Ordered products and supplies through the company's web portal.

Tim Hortons. September 2014 - February 2021

Supervisor | October 2015 - November 2016

- Trained team members on products and equipment. Ensured safety and product standards were consistently met.
- Oversaw the facility to ensure cleanliness and preparedness

COMMUNITY INVOLVEMENT

Living Faith Baptist Church

Leader U of T Student Ministry | February 14 - Present

East And West Learning Connection

Member, poster designer | September 2020 - Present

Canadian Memory Championship

Member, | June 2014 - June 2016