

# Sara Mikhail

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## Education and Certifications

**Master of Science: Major in Bioresource (Thesis, CGPA 3.96/4.00)** 2019- Current

McGill University - Montreal, Quebec

- Hazardous Waste Disposal Management Certification
- Travel Award, 1600\$: Conferences in Canada and USA (Summer 2019)
- Grad Excellence Award, 8000\$ (Winter 2019)
- Publication in the Journal of Scientometric Research

**Bachelor of Engineering: Major in Bioresource** 2015- 2018

McGill University - Montreal, Quebec

- Bieler Internship Award, 1500\$ (Summer 2016/2018)

**Bachelor of Arts and Science: Major in Biology (completed 2 years)** 2013- 2015

Concordia University - Montreal, Quebec

## Skills

**Technical:** FTIR, SEM microscope, bomb calorimeter, proximate and elemental analysis, gas chromatography, open flash point, four ball wear test and particle count test.

**Computer:** Windows, MS Office (Word, PowerPoint, Excel), Internet Databases, MATLAB and AutoCAD, JMP, Simulink and CONSOL programming

**Languages:** English and French (fluent)

## Career Related Experience

**Laboratory Research Assistant** Fall 2019

Sentinel Canada - Montreal, Quebec

- Perform quality control and quality assurance tests on a variety of chemical fluids and lubricants used in the industrial and military industry

**Research Assistant in Food Engineering** Summer 2018

McGill University - Montreal, Quebec

- Assisted three PhD students over the course of four months:
- Analyzed lobster waste as an alternative fuel source using laboratory techniques
- Experimented with a hybrid-drying concept for apple drying
- Facilitated with the initial stages of a fluidized flatbed microwave dryer for onions

**Plastic Waste Management Intern** Summer 2017

Sustainable Barbados Recycling Center - St. Thomas, Barbados

- Surveyed and separated plastic waste into five different (distinct) categories
- Recorded and quantified data
- Presented weekly updates on research project to stakeholders and businessmen
- Performed physical and chemical tests at McGill University on various types of plastic containers used in Barbados' fast food industry in Montreal
- Projected the shipping cost of plastic waste off the island of Barbados.
- Educated public and staff on the effects of plastic waste on the environment (specifically terrestrial and marine ecosystems).

- Submitted recommendations and research proposals for future industry management. Estimated the amount of plastic waste that would be processed by the facility in the following 6 months
- Reported back to McGill University the findings

### **Food Waste Intern**

Summer 2016

Biowallonie - Namur, Belgium

- Surveyed food waste in the regional hotel and restaurant industry
- Recorded and quantified data for the Ministry of Environment in Belgium
- Reported back to McGill University the findings

### **Additional Work Experience**

#### **Customer Service**

Fall 2016 - Current

Premiere Moisson - Montreal, Quebec

- Record sales and quantify data for daily preparation
- Maintain food preparation areas, facilities and equipment
- Serve food, beverages and desserts and operate cash register

#### **Note Taker for Students with Disabilities**

Winter 2016-2018

McGill University- Montreal, Quebec

- Wrote notes for students with special needs in five engineering courses; Ordinary differential equations, Post-Harvest Storage, Post-Harvest Drying, Engineering Professionalism and Engineering Economy

#### **International Buddy Program Volunteer**

Fall 2016 – 2018

McGill University - Montreal, Quebec

- Assist newly arrived international students settle into Montreal, and McGill University during their first year

#### **Youth Hostel Volunteer**

Namur, Belgium

Summer 2016

- Volunteered preparing and serving drinks

#### **Adaptive Aquatics Instructor**

2009-2016

Pointe-Claire Aquatic Center - Montreal, Quebec

- Facilitated one-on-one and group sessions to a broad spectrum of youth with disabilities; helped develop gross and fine motor skills and increased self-esteem. (3-18 years old)
- Ensured safety and provided first aid, part of the medical team
- Taught swimming lessons

#### **Volunteer at Concordia University's People's Potato**

Montreal, Quebec

Winter 2015

- Prepared and served vegan and sustainable food through a student union run lunch program, People's Potato, to over one hundred students.

### **Additional Skills**

- PADI Open Water Diver
- Basic life support/AED
- Driver's license

*References available upon request*