Kathryn Landry

Cumberland, ME • Kathryn.landry@mail.mcgill.ca • (207) 807-5899

EDUCATION

North Carolina State University, Raleigh, NC

2021-Present

Master of Microbial Biotechnology

McGill University, Montréal, QC

Bachelor of Science (Agr&Env), Honors Life Science Specialization in Microbiology and Molecular Biotechnology

2017-2021 GPA: 3.82

EXPERIENCE

Teaching Assistant

2021-Present

North Carolina State University, Raleigh, NC

- Lead laboratory experiments for undergraduates in General Microbiology (MB352)
- Lecture background information and demonstrate tasks

Undergraduate Research Assistant

2021

Whyte Lab, McGill University, Montréal, QC

- Assisted in the development of a microfluidics microbial activity assay that measures the metabolic activity of active microbes
- Optimized the procedure and extracted DNA from salt crystals from the high arctic

R&D Laboratory Technician

2020

Magnus Chemicals Ltd., Boucherville, OC

- Filtered water samples, cultured organisms, and performed qPCR on the samples to determine *Legionella pneumophila (Lp)* presence
- Confirmed Lp by screening colonies and performed antibody agglutination tests
- Maintained laboratory equipment, disposed of contaminated samples, and performed sterility tests

Undergraduate Research Assistant

2019-2021

Faucher Lab, McGill University, Montréal, QC

- Constructed a deletion mutant of Lp for lpg0500 and created a complemented strain
- Tested the ability of the deletion mutant to intracellularly replicate in amoeba
- Performed Western Blot to determine expression of *lpg0500*
- Isolated bacterial and eukaryotic organisms from a model cooling tower
- Identified microbial species using PCR, gel electrophoresis, and DNA purification
- Characterized the ability of isolates to stimulate or inhibit Lp growth
- Performed biofilm formation crystal violet assay

SKILLS AND RECOGNITIONS

Software: RStudio, PowerPoint, Excel and Word

Awards: Graduated with distinction and honors (2021). Blackwood Convocation Prize in

Microbiology. McGill Space Institute Summer Undergraduate Research Scholarship. Jeff Mills Memorial Prize. Varsity athlete (2017-2020).

2021