CURRICULUM VITAE

Emily Verkuil, M.Sc.

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EXPERT SUMMARY

Ms. Emily Verkuil is an Associate with the Remediation team in 30 Forensic Engineering's Toronto office. She holds a Bachelor of Science degree in Medicinal Chemistry from the University of Waterloo and a Master of Science in Chemistry from the University of Western Ontario. Emily's experience includes quality control, analytical research, and indoor and outdoor environmental assessment, having worked in private industry, academic research, and federal government sectors. Emily has also taught several chemistry courses at the University of Western Ontario and University of Waterloo.

SPECIALIZED PROFESSIONAL COMPETENCIES

- Physical and Chemical Testing
- Mould, Asbestos, and Indoor Air Quality Assessments
- Designated Substance Surveys
- Mould Remediation
- Lab Analysis
- Project Management
- Analytical Research

ACADEMIC BACKGROUND

Master of Science, Chemistry, University of Western Ontario, London, ON, 2024

Bachelor of Science, Medicinal Chemistry, University of Waterloo, Waterloo, ON, 2021

PROFESSIONAL EXPERIENCE

30 Forensic Engineering

Associate, Remediation
2024 – Present, Toronto, ON

- Conduct site examinations and investigations after mould, water, and/or fire impacts
- Complete Designated Substance Surveys for hazardous materials
- Perform remediation and abatement oversight

- Prepare technical reports based on investigations and analysis

University of Western Ontario

Teaching Assistant
2022 – 2024, London, ON

- Integrated Science, Exploring Science; first-year undergraduate lab that explores foundational topics in biology, chemistry, and physics to foster teamwork, interdisciplinary thinking, and the development of problem-solving and critical-thinking skills
- Organic Chemistry for Life Sciences; second-year undergraduate lab that explores a variety of chemical reactions as an introduction to concepts of structure and stereochemistry

Bio Agri Mix

Quality Control Chemist
2021 – 2022, Mitchell, ON

- Responsible for physical and chemical testing on different APIs, including pH appearance, IR, UV, titrations, and HPLC/UPLC assays

Avro Life Science

Analytical Research Assistant, Co-op
May – August 2020, Waterloo, ON

- Worked with an analytical technician to determine relevant drug concentrations from diffusion samples on HPLC-UV

University of Waterloo

Teaching Assistant
2019 – 2020, Waterloo, ON

- Analytical Chemistry Lab 1; second-year undergraduate lab teaching the basics of gas chromatography by identifying an unknown in a mixture by creation of a calibration curve, with a strong emphasis on accuracy and

PolyGone Technologies

Research and Development Assistant, Co-op
May – August 2019, Waterloo, ON

- Experimented on various types of plastic to collect physical data, including density, ability to absorb dye, and identification analysis via FTIR

Agriculture and Agri-Food Canada

Soil and Environmental Quality Lab Assistant, Co-op
September – December 2018, Harrow, ON

- Responsible for collecting gas samples from various field sites and analyzing samples for nitrous oxide and carbon dioxide via gas chromatography

AWARDS AND ACHIEVEMENTS

- Corrosion Research and Training Experience (CRTE) Award, 2024
- Merit Scholarship, University of Waterloo, 2016-2017

ACADEMIC SPEAKING ENGAGEMENTS AND FACILITATION

- Poster Presentation: Comparative Study on Ice-Melting Capacity and Environmental Impact of Common and Alternative De-icers (2024). Canadian Society for Chemistry Conference.
- Poster Presentation: Is there an alternative? Ice-Melting Capacity and Environmental Impact of De-icers (2024). International Association for Great Lakes Research (IAGLR) Conference.
- Facilitation: Corrosionist Professional Development in Surface Science and Electrochemistry Techniques (2023). Corrosion Summer Institute and Corrosion Communication Awareness Training.
- Poster Presentation: A Comprehensive Investigation of the Ice-Melting Capacity and Environmental Impact of Common De-icers (2023). Canadian Society for Chemistry Conference.