

Nicholas J. Roberts

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Profile

Hard-working analytical thinker with seven years worth of experience in academic research, looking to transition into industry. Thrives under pressure and with highly complex projects. One year's worth of experience acting as a technician for a mass spectrometer and high-end 3D printer. Extensive training in synthetic and analytical chemistry. Several years experience in computer aided design and hardware/software programming. Capable of initiating and completing projects in a timely manner.

Work Experience

MSc Student, University of Victoria

September 2023 – August 2025

Graduate researchers do the bulk of the science found in an academic institution. Responsibilities have included:

- project management
- instrument maintenance and training
- teaching undergraduate laboratories and classroom lectures
- providing hands-on mentoring for undergraduate students on research projects/acting as a project manager
- working with national and international collaborators
- robotics and engineering projects, e.g. hardware/software coding, 3D printing, computer aided design (CAD)
- thoroughly reviewing and writing scientific papers
- critically thinking on how to solve scientific problems

Joint Student Researcher, Dalhousie University

September 2021 – August 2022

Undergraduate student research roles are reserved for highly capable undergraduate students. As the lead researcher for this project, responsibilities included:

- connecting two different teams
- performing computational chemistry in a timely manner
- writing detailed reports/presentations

Inorganic Chemistry Exchange Student, Carleton University

May – August 2020

Inorganic chemistry exchange students are among the most outstanding undergraduate chemistry students across the country. Responsibilities for this role included:

- performing air-sensitive methods
- presenting scientific research

Education

Master's of Science, Chemistry, University of Victoria, Expected August 2025

Bachelor's of Science with Honours, Chemistry, Dalhousie University, 2023

Community Engagement

The University of Victoria Chemistry Equity, Diversity and Inclusion (EDI) Committee

As a graduate representative, I helped design content and advocate for EDI issues in the department of chemistry.

Dalhousie University Undergraduate Chemistry Society (DUUCS)

Former president of the undergraduate chemistry society, I managed many successful events during my tenure.

Other Skills & Interests

Languages: English, French

Coding: LaTeX, Python, Lua, Rust, C, C++, Gnu OCTAVE/MATLAB, shell scripting

Skills & Interests:

- Microsoft Office suite
- computational chemistry software/high-performance computing
- audio engineering
- video editing
- physical/digital art

Select Publications: *Nat. Rev. Chem.*, **2024**, *8*, 487–488 (**first author invited paper**); *Organometallics*, **2022**, *41*, 2180-2187 (**first author paper**); *ACS Cent. Sci.*, **2022**, *8*, 855-863 (**international collaboration**).