# Nicholas J. Roberts

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## Profile

Hard-working analytical thinker with seven years worth of experience in scientific research. 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 (air-stable/air-sensitive) 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 – Expected: August 2025

Graduate researchers do the bulk of the science found in an academic institution.

- Successfully managed 6 research projects over 2 years
- Developed high-quality samples via organic/inorganic synthetic chemistry
- Maintained and trained users on a high-end instrument (mass spectrometer, 3D printer)
- Taught undergraduate students through laboratories and classroom lectures
- Mentored 4 undergraduate researchers on 4 separate scientific projects
- Collaborated with an international research team via a travel scholarship
- Developed 3 automation tools for chemical research via 3D printing/design and programming
- Contributed to the scientific literature by writing and co-peer reviewing 4 scientific papers each
- Finding solutions to scientific problems through critical thinking and communication

**MITACS International Researcher, York University** January – April 2025

MITACS scholarships are highly competitive and reserved for outstanding (under)graduate researchers.

- Reproduced high-quality samples through air-sensitive chemistry
- Presented scientific results to an audience at a conference
- Adapted quickly and efficiently to a new working environment

**Joint Student Researcher, Dalhousie University** September 2021 – August 2022

Undergraduate student research roles are reserved for highly capable undergraduate students.

- Computed over 700 structures via computational chemistry software/high-performance computing
- Liaised between two different teams to consolidate results
- Obtained results by a deadline to have the work published
- Wrote detailed reports and presentations to update team leads

## Education

**Master's of Science**, Chemistry, The University of Victoria — Expected: August 2025
Notable achievements:

- Mitacs Globalink Research Award Abroad, National — January – April, 2025
- NSERC Alexander Graham Bell CGSM, National — 2023 – 2024
- Gilead Early Career Award for EDI, National — 2024

**Bachelor's of Science with High Honours**, Chemistry, Dalhousie University — 2023
Notable achievements:

- Society of Chemical Industry Merit Award, Dalhousie University — 2023
- Award for Undergraduate Research in Inorganic Chemistry, National — 2023
- President's Graduate/Undergraduate Student Teaching Award, Dalhousie University — 2022

## Community Engagement

**The University of Victoria Chemistry Equity, Diversity and Inclusion (EDI) Committee** — January – December, 2024
Designed content and advocated for EDI issues as the graduate representative in the department of chemistry.

**Dalhousie University Undergraduate Chemistry Society (DUUCS)** — 2019 – 2023
Managed multiple successful evens during tenure as president of the undergraduate chemistry society.

## Other Skills & Interests

**Languages**: English, French

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

**Skills & Interests**:

- Proficient in both Microsoft and Google office suites
- Proficient in image manipulation tools (Inkscape, GIMP)
- Proficient in several audio engineering platforms (FL Studio, LMMS, Audacity)
- Proficient in video editing/recording software (OBS, DaVinci Resolve, Kdenlive)
- Familiar with digital (Krita) and physical 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**).