LOUIS ROSSIGNOL
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EDUCATION

McGill University **September 2024 - August 2028**
Philosophy Doctorate (Ph.D), *Theoretical Physics* *Montreal, Quebec, Canada*

McGill University **September 2020 - December 2023**
Bachelor of Science, Major Physics and Minor Computer Science *Montreal, Quebec, Canada*

University of Maryland **January 2023 - May 2023**
Exchange program *College Park, Maryland, USA*

PROFESSIONAL EXPERIENCE

McGill Physics Department **September 2024 - Today**
Doctoral Researcher *Montreal, Quebec, Canada*

- Conducting research supervised by Professor Hong Guo in Theoretical condensed matter physics.

McGill Physics Department **September 2024 - Today**
Teaching Assistant *Montreal, Quebec, Canada*

Fall 2024:
- Teaching assistant for PHYS230: Dynamics of Simple Systems

Winter 2025:
- Teaching assistant and ANS coordinator for PHYS 102 Introductory Physics - Electromagnetism
- Teaching assistant and ANS coordinator for PHYS 142 Electromagnetism and Optics

Kastler Brossel Laboratory **January 2024 - July 2024**
Research internship *Paris, France*

- Conducted research supervised by Professor Quentin Glorieux at the Quantum Fluid of Light Group in machine learning for quantum optics measurements.

McGill Tutoring Services **September 2022 - April 2024**
Tutor *Montreal, Quebec, Canada*

- Helped students in mathematics and physics.

McGill Physics Department **September 2023 - December 2023**
Undergraduate Research Project *Montreal, Quebec, Canada*

- Conducted research supervised by Professor Michael Hilke at the Quantum Nano Electronics Laboratory (QNEL).
- Investigating the decoherence dynamics of Qubits coupled to a Su-Schriefer-Heeger (SSH) chain to probe the topological states of the chain.

Institut national de recherche en informatique et en automatique (INRIA) **May 2022 - June 2022**

Research Intern *Nancy, France*

- Conducted research supervised by Dr. Marie-Dominique Devignes at the Computational Algorithms for Protein Structures and Interactions (CAPSID) team.

SKILLS

- Programming: C, Python, Java, OCaml
- Software: Matlab, Microsoft Office Suite, RESCU, NanoDcal, VASP
- Languages: French (Native), English (Toefl IBT: 98/120), Spanish (high school level)