Hugo V. Lepage

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19 JJ Thomson Avenue
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United Kingdom

Education

2020 **University of Cambridge** — Cambridge, UK
Ph.D. Physics
- Marie Skłodowska Curie Fellow

2015 **University of Toronto** — Toronto, ON
M.A.Sc. Electrical & Computer Engineering

2013 **McGill University** — Montreal, QC
B.Sc. Honours Physics
- Graduated with first class honours

Work Experience

2017 **University of Cambridge**
Supervisor for Girton College
- Teaching and tutoring Natural Sciences Tripos Maths 1A course.

2013 **McGill University**
Research Assistant under Prof. Michael Hilke
- Growth of graphene monolayers and band structure analysis via Raman spectroscopy.

2013 **McGill University**
Teaching Assistant for Prof. Johannes Walcher
- Grading of MATH 249 (Complex Variables)

2012 **University of Cambridge**
Research Internship under Prof. Chris Ford
- Coding a finite element modelling tool to calculate the charge density and potential layout of semiconductor devices.

2011 **University of Montreal**
Research Internship under Prof. Michel Côté
- Coding a numerical solver calculate the conversion efficiency of tandem organic photovoltaic cells.

Publications

2018 Shuji Mori, Yousuke Kikuchi, Nobuyuki Hirose, Hugo Lepage, and Willy Wong, Auditory gap detection: psychometric functions and insights into the underlying neural activity, Trends in Hearing. (submitted TIH-18-0060)

2017 D. R. M. Arvidsson-Shukur=, H. V. Lepage=, E. T. Owen=, T. Ferrus, and C. H. W. Barnes, Protocol for Fermionic Positive-Operator-Valued Measures, Phys. Rev. A.

2016 Hugo Lepage, Willy Wong, Markus Bussmann, and Honghi Tran. Acoustic analysis of recovery boiler dissolving tank operation and smelt shattering efficiency, TAPPI Journal.

2016 Willy Wong and Hugo Lepage, A peripheral model of gap detection, The Journal of the Acoustical Society of America.

Awards

2017 **FRQNT Doctoral Award**
Fonds de recherche du Québec - Nature et technologies

2016 **MSCA Fellow**
Marie Skłodowska-Curie Actions
Horizon 2020 Grant No. 642688

2013 **NSERC Stipend**
Natural Sciences and Engineering Research Council

2012 **Edgar & Margaret Wilson Bursary**
McCall MacBain Scholarships and Student Aid Centre

2012 **Mobility Award**
McGill SESA Office

Extracurricular Activity

2017 **Cavendish Physics at Work**
University of Cambridge - Cavendish Laboratory
- Scientific outreach for high-school classes.

2012 **OSD Note-Taker**
McGill University - Office for Students with Disabilities
- Transcribe and upload lecture notes for students with disabilities.

2011 **Project SEUR**
University of Montreal
- One hour lectures on superconductivity to high school students.
- Demonstrations using superconductors and liquid nitrogen.

Skills

Programming languages: C, C++, C#, CUDA, OpenCL, FORTRAN, Python, Bash
Operating systems: Linux, MacOS, Windows
Applications: Visual Studio, Mathematica, MATLAB, Maple, ssh, LaTeX, various others…
Spoken Languages: English (Native), French (Native), German (Fair)
Miscellaneous: Strong verbal and written communication skills, excellent problem solving skills, practiced with the redaction of research papers, good team spirit.