Ian Kivlichan

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EDUCATION	**Honours Bachelor of Science Candidate**	Class of 2014
	University of Trinity College at the **University of Toronto**	
	Programs of Study: Physics Specialist, Mathematics Minor	
	Current Grade Point Average: 4.00/4.0	
	Current Percentage Average: 93.0%	

EXPERIENCE

Undergraduate Thesis Student 2013 – 2014
Steinberg Group, University of Toronto
Analyzing the possibility of using entangled multi-photon states for
sub-Rayleigh imaging. Extending measurement of U(1) rotations of
polarization states to measurement of SU(2) rotations.

NSERC USRA Student (Chair's Scholar) Summer 2013
Paramekanti Group, University of Toronto
Developed Monte Carlo methods to address Bose condensation,
superfluidity, and strong correlations in ultracold atomic gases.

NSERC USRA Student Summer 2012
Thywissen Group, University of Toronto
Upgraded a design for an external cavity diode laser. Optimized, built,
and tested the design, and made recommendations for a future revision.

Undergraduate Research Assistant Summer 2011, 2012
Burch Group, University of Toronto
Designed and optimized a setup for optical spectroscopy, resulting in
up to a 7x improvement in intensity compared to the old setup.

PAPERS

Reijnders, A. A. *et al.* (2014). "Optical evidence of surface state suppression
in Bi-based topological insulators". *Physical Review B* **89**, 075138.

OUTREACH

Physics Peer Counsellor 2012 – 2014
Trinity College, University of Toronto

SKILLS

**Python, C/C++, Java, MATLAB, SolidWorks, Autodesk Inventor,
Advanced Systems Analysis Program (ASAP), LaTeX, Adobe Illustrator**

RECENT AWARDS

The 3To M&P and Associates Scholarship	2012, 2013
The Drew Foster Scholarship	2013
University of Toronto Scholarship	2011 – 2013
The Bryan Statt Prize for Outstanding Experimental Work	2013
Samuel Beatty In-Course Scholarship	2013
The Archibald Hope Young Scholarship (for highest combined average in first and second years)	2012
Herbert Edwin Chadburn and Florence Grace Chadburn Memorial Scholarship in Mathematics and Physics	2012