William Hamilton

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(438) 821-9105

Education

B.S. & M.S. (Joint Program) Computer Science — GPA 3.96/4.00   *Graduation: May 2014*
McGill University, Montreal, QC, Canada

Relevant Experience

Undergraduate Researcher, *McGill Reasoning and Learning Lab*   *Summer 2012 - Fall 2012*
- Work with Professor Joelle Pineau.
- Funded by a NSERC Undergraduate Science Research Award.
- Designed and implemented a novel large-scale machine learning algorithm.
- Currently implementing a machine learning framework that will be freely distributed as open-source software.
- Work will be published in the Proceedings of the 30th International Conference on Machine Learning.

Undergraduate Researcher, *McGill Cognitive Science*   *Summer 2011 - Fall 2011*
- Worked with Professor Ian Gold.
- Funded by McGill ARIA research grant.
- Designed and implemented simulations using principles from reinforcement learning and evolutionary game theory.
- Wrote paper summarizing work that was highly commended for the Oscar Wilde International Academic Gold Medal.

Lab Assistant, *McGill Philosophy and Psychiatry Lab*   *Fall 2011*
- Helped design interfaces for optimizing subject experience during experiments.
- Wrote research proposals and summarized technical reports.

Relevant Coursework

Honors Algorithms and Data Structures 1 & 2, Software Development, Artificial Intelligence, Algorithm Design, Software Systems, Algorithmic Game Theory, Numerical Analysis, Probability and Statistics, Discrete Structures, Algebra 1 & 2.

Skills

Programming: Java, C, Python, Perl, Assembly, C++, HTML/CSS, MATLAB, R, Common Lisp, Bash

Operating Systems: Windows, Mac OS X, Linux, UNIX

Awards and Honors

Governor General's Academic Medal, Saskatchewan School Board	*2009*
JW McConnell Scholarship, McGill University	*2009 - 2013*
Dean's Honor List, McGill University	*2009 - Present*
Mathematical and Computational Sciences Research Award, McGill University	*2012*
Undergraduate Research Award, McGill Computer Science	*2012*
Best Project, McGill Computer Science, AI Course (music recognition system)	*2012*

Leadership Activities

Co-founder, Co-President, McGill Community Task Force	*Summer 2010 - Spring 2011*
Volunteer Care Provider, Montreal Friendship Circle	*Fall 2011 - Summer 2012*
Tutor, Aden Bowman Collegiate Institute	*Fall 2008 - Spring 2009*
Day Manager, Pete's Terrace Restaurant	*Summer 2010 - Fall 2010*