JOHN HOWAT

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www.howat.ca

Education		
2008 – 2012 2007 – 2008 2003 – 2007	Doctor of Philosophy in Computer Science Master of Computer Science Bachelor of Computer Science (Highest Honours) Minor in Mathematics	Carleton University Carleton University Carleton University
Experience		
2014 – 2015	Instructor Taught 6 undergraduate courses on Python, Java, C++, discrete mathematics, and cryptography with a total enrollment of about 1,100 students. Managed 39 teaching assistants. Received a Professional Achievement Award (only two awarded throughout the university).	
2012 – 2014	Postdoctoral Fellow Wrote custom C++ and Java software for our partner firm for the cleaning and manipulation of large 3D meshes in the context of laser-scanning and 3D-printing operations. Designed new memory-efficient algorithms that drastically increased the sizes of meshes that can be processed.	
2009 – 2012	Contract Instructor Taught 5 undergraduate courses on discrete mathematanalysis of algorithms.	Carleton University atics and the design and
2005 – 2012	Teaching Assistant Ran tutorials, held office hours, and graded assignmen	Carleton University its under tight deadlines.
Skills		
Programming Development Software Research Communication	C, C++, Java, Python, Perl, SQL (MySQL) Big data analysis, Git, object-oriented development, cryptography, databases Windows, Linux (Ubuntu), 图EX, Maple Data structures (especially those that adapt to queries), algorithm design Teamwork (problem solving, documenting results), teaching/presenting to both technical and non-technical individuals and groups	
Selected Awards	and Scholarships	
2015	Professional Achievement Award	Carleton University

Canada Graduate Scholarship (Doctoral)

Canada Graduate Scholarship (Master's)

NSERC

NSERC

2009-2012

2008-2009