VICTOR VEITCH

PERSONAL INFORMATION

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STATEMENT OF INTEREST

I am interested in the theory and application of mathematics, particularly applied statistics, statistical methodology, machine learning and information theory.

EDUCATION

2013-present The University of Toronto

Doctor of Philosophy, Statistical Sciences Statistical Theory and Applications

My research primarily focuses on Bayesian nonparametrics and the development of techniques for the statistical analysis of networks.

Advisor: Prof. Daniel Roy

2011-2013 The University of Waterloo

Masters of Mathematics Applied Mathematics Specialization

Thesis: Negative Quasi-Probability in the Context of Quantum Computation My research was focused on quantum information science and the foundations of quantum mechanics. My thesis was recognized as the best Masters thesis in

the Mathematics faculty in 2013. Advisor: Prof. Joseph Emerson

2006-2011 The University of Waterloo

Bachelor of Science

Honours Mathematical Physics, Pure Mathematics Minor · Dean's Honours List

WORK EXPERIENCE

2013–Present Teaching Assistant, Statistical Sciences

University of Toronto Duties included planning and running tutorial sessions for between 15 and 200 students, preparing assignment and test questions and solutions, providing individual instruction during office hours and grading. Courses TA'd have spanned introductory statistical theory, application and mathematical probability. I have consistently received extremely positive feedback from students, and won the departmental TA award in 2015. I also worked on the development of an online statistics course as part of Ontario Online program.

2011–2013 Teaching Assistant, Applied Mathematics

University of Waterloo

This work includes a number of introductory applied mathematics courses. Duties were similar to those at the University of Toronto, described above.

2010-2011 Research Assistant

Institute for Quantum Computing

This work primarily focused on designing and evaluating techniques for the evaluation of quality of quantum devices; particularly using simulation and optimization with Matlab and C++.

PUBLICATIONS

	TOBLEMITORS
2014	Contextuality supplies the magic for quantum computation. M. Howard, J. Wallman, <i>V. Veitch</i> , J. Emerson. Nature 510, 351355. doi:10.1038/nature13460
2013	The resource theory of stabilizer quantum computation. <i>V. Veitch</i> et al. New J. Phys. 16 013009 doi:10.1088/1367-2630/16/1/013009
2013	Efficient simulation scheme for a class of quantum optics experiments with non-negative Wigner representation. <i>V. Veitch</i> et al. New J. Phys. 15 013037 doi:10.1088/1367-2630/15/1/013037
2013	Negative quasi-probability as a resource for quantum computation. <i>V. Veitch</i> et al. New J. Phys. 14 113011 doi:10.1088/1367-2630/14/11/113011
	PREPRINTS
2015	The class of random graphs arising from exchangeable random measures. V. Veitch, D.M. Roy. arxiv.org/abs/1512.03099
2013	The whole is greater than the sum of the parts: on the possibility of purely statistical interpretations of quantum theory. J. Emerson, D. Serbin, C. Sutherland, <i>V. Veitch</i> . arxiv.org/abs/1312.1345
	COMPUTER SKILLS
Basic	JAVA, HASKELL, Inkscape
Intermediate	c++, c#, Fortran 95, Maple, LATEX, LYX, Linux, Microsoft Windows
Advanced	Matlab, R
	OTHER INFORMATION
Selected Talks	2013 · The Resource Theory of Stabilizer Computation <i>Invited talk</i> at June meeting of the CIFAR Quantum Information Processing meeting. Edmonton, Canada.
	2013 · Negative Quasi-Probability as a Resource for Quantum Computation. Contributed talk at Quantum Information Processing 2013. Beijing, China.
Awards and Honours	2016 · Best Oral Presentation at Statistical Society of Canada Meeting
	2015 · Best Theory Poster at 10th Conference on Bayesian Nonparameterics
	2015 · University of Toronto Statistical Sciences Teaching Assistant Award
	2013 · University of Waterloo Outstanding Achievement in Graduate Studies
	2013-2016 · NSERC PGS-D
	2013-2014 · Ontario Graduate Scholarship (Declined)
	2012-2013 · Ontario Graduate Scholarship
	2012-2013 · University of Waterloo President's Graduate Scholarship
	2011-2012 · Ontario Graduate Scholarship
	2011-2012 · University of Waterloo President's Graduate Scholarship
	2011 · NSERC USRA

Web GrтHuв · github.com/vveitch

Wikipedia.org/wiki/User:Victor_veitch

 $Google \ Scholar.google.ca/citations?user=xkn_XZgAAAAJ\&hl=en$

Website · utstat.utoronto.ca/~victor