

Andrea Rocchetto

Contact Information	Department of Computer Science University of Oxford Wolfson Building, Parks Road Oxford, OX1 3QD UK	+44 07546641268 andrea.rocchetto@spc.ox.ac.uk Nationality: British, Italian DOB: 15/07/1991
Education	UNIVERSITY OF OXFORD Ph.D. Candidate, Computer Science (expected June '19) Advisors: S. Severini, V. Kanade, S. Benjamin	Oct. '15 – Present
	IMPERIAL COLLEGE LONDON M.Sc. in Physics with Distinction	Oct. '14 – Sept. '15
	SAPIENZA UNIVERSITÀ DI ROMA B.Sc. in Physics cum Laude	Sept. '10 – Nov. '13
Visiting Positions	2019 Visiting Scholar, Berkeley Center for Quantum Information and Computation, University of California, Berkeley 2019 Semester as a Graduate Fellow at the Kavli Institute for Theoretical Physics, University of California, Santa Barbara 2018 Trimester on “Measurement and control of quantum systems: theory and experiments”, Institut Henri Poincaré 2016 – 2019 Research Assistant, Quantum Group, Department of Computer Science, University College London	
Publications and Preprints	<i>Stabiliser states are efficiently PAC learnable</i> , Quantum Information and Computation, Vol. 18, No. 7&8 (2018) <i>Learning DNFs under product distributions via μ-biased quantum Fourier sampling</i> , arXiv preprint arXiv:1802.05690 (2018). With V. Kanade and S. Severini <i>Quantum machine learning: a classical perspective</i> , Proceedings of the Royal Society A 474, No. 2209 (2018). With C. Ciliberto, M. Herbster, A. D. Ialongo, M. Pontil, S. Severini, and L. Wossnig <i>Learning hard quantum distributions with variational autoencoders</i> , npj Quantum Information, 4 (2018). With G. Carleo, E. Grant, S. Severini, and S. Strelchuk <i>Modelling non-Markovian quantum processes with recurrent neural networks</i> , New Journal of Physics, Vol. 20, No. 12 (2018). With L. Banchi, E. Grant, and S. Severini <i>Approximating Hamiltonian dynamics with the Nyström method</i> , arXiv preprint arXiv:1804.02484 (2018). With C. Ciliberto, M. Pontil, A. Rudi, S. Severini, and L. Wossnig <i>Experimental learning of quantum states</i> , Science Advances 5, No. 3, eaau1946 (2019). With S. Aaronson, I. Agresti, M. Bentivegna, G. Carvacho, D. Poderini, and S. Severini <i>Stabilizers as a design tool for new forms of the Lechner-Hauke-Zoller annealer</i> , Science Advances 2, No. 10, e1601246 (2016). With S. Benjamin and Y. Li	

Honors and Awards	2019	Kavli Institute for Theoretical Physics Graduate Fellowship
	2018 – 2022	Aspen Institute Italia Junior Fellow
	2016 – 2019	Qinetiq Studentship
	2016	Nature Innovation Forum on Quantum Technologies
	2015 – 2019	EPSRC DTP Scholarship
Refereeing	Journals:	Nature, npj Quantum Information, Physical Review A, Science Advances
	Conferences:	ITCS
Invited Talks	2019	Program “Machine Learning For Quantum Many-Body Physics”, Kavli Institute for Theoretical Physics, Santa Barbara, US
	2018	Workshop “Algebraic Graph Theory and Complex Networks”, University of Naples “Federico II”, Naples, Italy
	2018	Workshop “Observability and Estimation”, Institut Henri Poincaré, Paris, France
	2018	Workshop “Machine learning in physics”, Flatiron Institute, New York, US
Invited Seminars	2019	Berkeley Center for Quantum Information and Computation, Berkeley, California, US
	2018	Perimeter Institute for Theoretical Physics, Waterloo, Canada
	2018	CSML, Istituto Italiano di Tecnologia, Genoa, Italy
	2017, 2018	DAMTP, University of Cambridge, Cambridge, UK
	2018	IRIF, Université Paris-Diderot, Paris, France
	2018	IQIM, Caltech, Los Angeles, US
	2017	Department of Physics, University of Oxford, Oxford, UK
Contributed Talks and Posters	2019	Quantum Information Processing (QIP) Conference, Boulder (CO), US (poster)
	2018	Neural Information Processing Systems (NIPS) Conference, Montreal, Canada (poster at the “Machine Learning and Molecules” workshop)
	2018	Quantum Information Processing (QIP) Conference, Delft, The Netherlands (poster)
	2017	Neural Information Processing Systems (NIPS) Conference, Long Beach (CA), US (poster at the “Machine Learning and Molecules” workshop)
	2017	Adiabatic Quantum Computing (AQC) Conference, Tokyo, Japan (contributed talk)
Relevant Skills	Languages:	English, Italian
	Programming:	C, Mathematica, Matlab, Python