

Mirko Lobino

Contact details

Nationality:	Italian
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Employment History

September 2012-Present

Senior Lecturer

Centre for Quantum Dynamics, Griffith University and leader of the Integrated Quantum Photonics group.

- Lithium niobate devices for quantum photonics
- Integrated cluster state quantum computing
- Nonlinear waveguides for nonclassical light sources
- Ultrafast switching for feed-forward quantum information

September 2009-July 2012

Marie Curie Research Fellow

Centre for Quantum Photonics, University of Bristol, group lead by Prof. Jeremy O'Brien.

- Reference frame independent quantum key distribution
- Quantum effects in waveguide arrays
- Quantum computation in optical waveguides
- Single photon source at telecom wavelength
- Fabrication of quantum circuits in lithium niobate

July 2007-July 2009

Postdoctoral Associate

Institute for Quantum Information Science, University of Calgary, Quantum Optics group lead by Prof. Alexander Lvovsky.

- Single atom traps with tapered optical fibers.
- Quantum process tomography for continuous variable systems.
- Slow light propagation in mediums exhibiting electro-magnetically induced transparency (EIT).
- Optical parametric oscillators and generation of squeezed light.
- Implementing EIT in Rubidium vapor cells for quantum memories.

March 2007-July 2007

Assistant Researcher

Physics Department, Politecnico di Milano, Integrated Optics Group lead by Prof. Ramponi.

- Spatio-temporal soliton propagation in χ_2 material and pulse compression in periodically poled lithium niobate.

July 2002-July 2003

Internship

Pirelli Labs

Advanced Research Group lead by Dr. Flavio Fontana.

- Properties of non-diffractive Bessel beams.
- Conical mirror design and implementation for efficient Bessel beam generation.
- Fabrication of mode-locked fiber laser.

Teaching Experience

Griffith University, School of Natural Sciences

- Convenor of the Advanced Photonics course.

University of Calgary, Physics Department

- Assistant Instructor in Electricity and Magnetism for first year, undergraduate Engineering students.
- Assistant Instructor in graduate level Quantum Optics.

Politecnico di Milano, Physics Department

- Teaching Assistant for undergraduate classes in Mechanics, Electro-magnetism and Thermodynamics.

Education

Apri 20th 2007

Philosophiae Doctor in Physics

Physics Department, Politecnico di Milano in the Integrated Optics group under Professor Roberta Ramponi.

- Thesis title: '*Nonlinear Effects and Optical-Quantum Analogies in Lithium Niobate and Tantalate Guiding Structures*'
- Light propagation in waveguide arrays and their quantum analogies.
- Waveguides written by femtosecond laser pulses.
- Finite element modeling of waveguides, including effective indexes and annealing diffusion process.
- Design and realization of nonlinear waveguides for frequency conversion in TL band.

July 23rd 2003

Laurea Degree (Bachelor plus Master) in Nuclear Engineering

Department of Nuclear Engineering, Politecnico di Milano

- Thesis title: '*Analysis of Non-Diffracting Bessel Beams*'
- Thesis work developed at Pirelli Labs with Professor Orazio Svelto as advisor
- Graduated with a score of 98/100. Overall GPA: 3.6

Short courses

September 2003-February 2004

The Institute of Optics, University of Rochester

- Semester studies in the PhD program

Other Scientific Activities

- Co-chair of the Symposium on Integrated Quantum Optics at CLEO-Europe 2015, Munich Germany
- Session Chair at the 40th Annual Meeting of the APS Division of Atomic, Molecular and Optical Physics. May 19–23, 2009; Charlottesville, Virginia. Session Title: "Quantum Information with Matter and Light"
- Referee for Physical Review Letters, Physical Review A, Optics Letters, Optics Express and Journal of Physics B

Other Relevant Skills

- Proficient in MatLab, Labview, C++, FORTRAN, Windows and Microsoft Office.
- Good knowledge of Finite Element and Finite difference techniques, WKB and Monte Carlo method.
- Fluent in English and Italian (First Language).

Grants and Fellowships

M. Y. Simmons et al.	Jan17-Dec22	ARC Centre of Excellence for Quantum Computation and Communication Technology	\$33.7M
M. Lobino	Jan15-Dec15	Griffith University Research Infrastructure Program	\$550k
M. Lobino	Jan14-Dec14	Griffith University New Researcher Grant	\$14k
M. Lobino, S. Dimitrijević and R. Leoni	Jan14-Dec16	ARC (Australia), Discovery Project 14	\$503k
N.T. Nguyen and M. Lobino	Aug13-Aug15	Griffith University Research Infrastructure Program	\$85k
M. Lobino	Jan13-Dec15	ARC (Australia), Discovery Early Career Research Award	\$375k
M. Lobino	Sep12-Dec14	Griffith University start-up grant	\$380k
J. L. O'Brien, M. Lobino et.al.	Jun12-Jun16	EPSRC (UK) project, Lithium niobate integrated quantum photonics.	£1.5M
M. Lobino	Mar10-Mar12	Marie Curie International Incoming Fellowship from the European Union	€173k
M. Lobino	May07, award not accepted	The Lady Davis Postdoctoral Fellowship	\$30k
M. Lobino	Mar07- Aug07	Postdoctoral Fellowship from the Physics Department, Politecnico di Milano	€10k
M. Lobino	Sep04-Feb07	Ph.D. scholarship from Italian minister of University and Research	€30k
M. Lobino	Mar04- Aug04	Fellowship from the Physics Department, Politecnico di Milano	€10k
M. Lobino	Jul02- Jul03	Pirelli Labs Scholarship	€7k
M. Lobino	Sep97	Institute for University Studies scholarship	€5k

Patents

1. A. Niskanen, L. Hongwei, A. Laing, M. Lobino, M. G. Thompson, J. L. O'Brien, Quantum Key Distribution, US patent number US20120195430.

Publications

1. H.-P. Phan, H.-H. Cheng, T. Dinh, B. Wood, T.-K. Nguyen, F. Mu, G. Walker, L. Hold, A. Iacopi, B. Haylock, D. V. Dao, M. Lobino, T. Suga, and N.-T. Nguyen, Single crystalline 3C-SiC anodically bonded onto glass: an excellent platform for high temperature electronics and bio applications, submitted.
2. V. Blums, M. Piotrowski, M. I. Hussain, B. G. Norton, S. Connell, S. Gensemer, M. Lobino, E. W. Streed, A single atom sensor for the detection of sub-attoNewton force in all three directions, submitted.
3. F. Lenzini, A. N. Poddubny, J. Titchener, P. Fisher, A. Boes, S. Kasture, B. Haylock, M. Villa, A. Mitchell, A. S. Solntsev, A. A. Sukhorukov, and M. Lobino, Direct characterization of a nonlinear photonic circuit's wave function with laser light, submitted.
4. F. Lenzini, B. Haylock, J. C. Loredo, R. A. Abrahao, N. A. Zakaria, S. Kasture, I. Sagnes, A. Lemaitre, H. Phan, D. V. Dao, P. Senellart, M. P. Almeida, A. G. White and M. Lobino, Active demultiplexing of single-photons from a solid-state source, **Laser and Photonics Reviews** 11, 1600297 (2017).

5. M. Ghadimi, V. Blums, B. G. Norton, P. Fisher, S. C. Connell, J. M. Amni, C. Volin, H. Hayden, C.S. Pai, D. Kielpinski, M. Lobino, and E.W. Streed, Efficient integrated optics for quantum networking, **NPJ Quantum Information** 3, 4(2017).
6. A. Riduan M. Foisal, H. Phan, T. Dinh, K. Nguyen Tuan, A. Qamar, M. Lobino, and D. V. Dao, 3C-SiC on Glass: an Ideal Platform for Temperature Sensors under Visible Light Illumination, **RSC Advances** 6, 87124(2016).
7. S. Kasture, F. Lenzini, B. Haylock, A. Boes, A. Mitchell, E. W. Streed, and M. Lobino, Frequency conversion between UV and telecom wavelengths in a lithium niobate waveguide for quantum communication with Yb⁺ trapped ions, **Journal of Optics** 18, 104007(2016).
8. M. I. Hussain, M. J. Petrasianus, C. D. B. Bentley, R. L. Taylor, A. R. R. Carvalho, J. J. Hope, E. Streed, M. Lobino, and D. Kielpinski, Ultrafast, high repetition rate, ultraviolet, fiber laser source: application towards Yb⁺ fast quantum-logic, **Optics Express** 24, 16638(2016).
9. B. Haylock, F. Lenzini, S. Kasture, P. Fisher, E. W. Streed, and M. Lobino, Nine Channel Mid-Power Bipolar Pulse Generator Based on a Field Programmable Gate Array, **Review of Scientific Instruments**, 87, 054709 (2016).
10. D. Kielpinski, C. Volin, E. W. Streed, F. Lenzini, and M. Lobino, Integrated optics architecture for trapped-ion quantum information processing, **Quantum Information Processing** 15, 5315 (2016).
11. F. Lenzini, S. Kasture, B. Haylock, and M. Lobino, A complete model for high quality fabrication of Annealed and Reverse Proton Exchanged waveguides in congruent Lithium Niobate, **Optics Express** 22, 1748 (2015), arXiv:1410.5168.
12. K. Poullos, R. Keil, D. Fry, J. D. A. Meinecke, J. C. F. Matthews, A. Politi, M. Lobino, M. Grafe, M. Heinrich, S. Nolte, A. Szameit, and J. L. O'Brien, Quantum walks of correlated photon pairs in two-dimensional waveguide arrays, **Physical Review Letters** 112, 143604 (2014), arXiv:1308.2554.
13. P. Zhang, K. Aungkunsiri, D. Bonneau, P. Jiang, A. Laing, M. Lobino, E. Martín-Lopez, J. Munns, R. Nock, H.-W. Li, J. Wabnig, A. Niskanen, J. G. Rarity, M. G. Thompson, and J. L. O'Brien, Reference frame independent quantum key distribution server accessible via telecom-fibre hook-up to client with integrated photonic chip, **Physical Review Letters** 112, 130501 (2014), arXiv:1308.3436.
14. A. Crespi, M. Lobino, J. C. F. Matthews, A. Politi, C. R. Neal, R. Ramponi, R. Osellame, J. L. O'Brien, Integrated quantum optical bio-sensing, **Applied Physics Letters** 100, 233704 (2012), arXiv:1109.3128.
15. D. Bonneau, M. Lobino, P. Jiang, C. M. Natarajan, M. G. Tanner, R. H. Hadfield, S. N. Dorenbos, V. Zwiller, M. G. Thompson, J. L. O'Brien, Fast path and polarisation manipulation of telecom wavelength single photons in lithium niobate waveguide devices, **Physical Review Letters** 108, 053601 (2012), arXiv:1107.3476.
16. P. J. Shadbolt, M. R. Verde, A. Peruzzo, A. Politi, A. Laing, M. Lobino, J.C.F. Matthews, and J. L. O'Brien, Generating, manipulating and measuring entanglement and mixture using a reconfigurable quantum photonic circuit, **Nature Photonics** 6, 45 (2012), arXiv:1108.3309.
17. H. W. Li, S. Przeslak, A. O. Niskanen, J. C. F. Matthews, A. Politi, P. Shadbolt, A. Laing, M. Lobino, M. G. Thompson, J. L. O'Brien, Reconfigurable controlled two-qubit operation on a quantum photonic chip, **New Journal of Physics** 13, 115009 (2011).
18. M. Lobino, G. D. Marshall, C. Xiong, C. M. Natarajan, M. G. Tanner, R. H. Hadfield, S. N. Dorenbos, T. Zijlstra, V. Zwiller, M. Marangoni, R. Ramponi, B. J. Eggleton, and J. L. O'Brien, Correlated photon pairs generation in reverse proton exchanged waveguide on periodically poled 1% MgO doped stoichiometric lithium tantalate via cascaded second order nonlinear processes, **Applied Physics Letters** 99, 081110 (2011), arXiv:1103.3769.
19. C. Xiong, G. D. Marshall, A. Peruzzo, M. Lobino, A. S. Clark, D.-Y. Choi, S. J. Madden, C. M. Natarajan, M. G. Tanner, R. H. Hadfield, S. N. Dorenbos, T. Zijlstra, V. Zwiller, M. G. Thompson, J. G. Rarity, M. J. Steel, B. Luther-Davies, B. J. Eggleton, J. L. O'Brien, Generation of correlated photon pairs in a chalcogenide As₂S₃ waveguide, **Applied Physics Letters** 98, 051101 (2011), arXiv:1011.1688.

20. M. Lobino and J. L. O'Brien, Entangled Photons on a chip, **Nature** 469, 43 (2011).
21. A. Peruzzo, M. Lobino, J. C. F. Matthews, N. Matsuda, A. Politi, K. Poulios, X. Zhou, Y. Lahini, N. Ismail, K. Wörhoff, Y. Bromberg, Y. Silberberg, M. G. Thompson and J. L. O'Brien, Quantum walks of correlated photons, **Science** 329, 1500 (2010), arXiv:1006.4764.
22. M. Lobino, C. Kupchak, E. Figueroa and A. I. Lvovsky, Memory for Light as a Quantum Process, **Physical Review Letters** 102, 203601 (2009), arXiv:0812.4053.
23. K. Kuntz, B. Braverman, S.-H. Youn, M. Lobino, E. M. Pessina and A. I. Lvovsky, Spatial and temporal characterization of a Bessel beam produced using a conical mirror, **Physical Review A** 79, 043802 (2009), arXiv:0812.2514.
24. E. Figueroa, M. Lobino, D. Korystov, C. Kupchak and A. I. Lvovsky, Propagation of squeezed vacuum under electromagnetically induced transparency, **New Journal of Physics** 11, 013044 (2009), arXiv:0804.2703.
25. M. Lobino, D. Korystov, C. Kupchak, E. Figueroa, B. C. Sanders and A. I. Lvovsky, Complete characterization of quantum-optical processes, **Science** 322, 563 (2008), arXiv:0811.2784.
26. M. Marangoni, M. Lobino and R. Ramponi, Optical parametric generation of nearly transform-limited mid-infrared pulses in dispersion-engineered nonlinear waveguides, **Optics Letters** 33, 2107 (2008).
27. J. Appel, E. Figueroa, D. Korystov, M. Lobino and A. I. Lvovsky, Quantum memory for squeezed light, **Physical Review Letters** 100, 093602 (2008), arXiv:0709.2258.
28. R. Osellame, M. Lobino, N. Chiodo, M. Marangoni, G. Cerullo, R. Ramponi, H. T. Bookey, R. R. Thomson, N. D. Psaila and A. K. Kar, Femtosecond laser writing of waveguides in periodically poled lithium niobate preserving the nonlinear coefficient, **Applied Physics Letters** 90, 241107 (2007).
29. S. Longhi, M. Lobino, M. Marangoni, R. Ramponi, P. Laporta and V. Foglietti, Semiclassical motion of a multiband Bloch particle in a time dependent field: Optical visualization, **Physical Review B** 74, 155116 (2006).
30. M. Marangoni, M. Lobino and R. Ramponi, Simultaneously phase-matched second and third harmonic generation from 1.55 μm radiation in annealed proton-exchanged PPLN waveguides, **Optics Letters** 31, 2707 (2006).
31. S. Longhi, M. Marangoni, M. Lobino, R. Ramponi, P. Laporta, E. Cianci and V. Foglietti, Observation of dynamic localization in periodically-curved waveguide arrays, **Physical Review Letters** 96, 243901 (2006), arXiv:quant-ph/0511132.
32. M. Marangoni, M. Lobino, R. Ramponi, E. Cianci and V. Foglietti, High quality buried waveguides in stoichiometric LiTaO₃ for nonlinear frequency conversion, **Optics Express** 14, 248 (2006).
33. M. Lobino, M. Marangoni, R. Ramponi, E. Cianci, V. Foglietti, S. Takekawa, M. Nakamura and K. Kitamura, Optical-damage-free guided second-harmonic generation in 1% MgO-doped stoichiometric lithium tantalate, **Optics Letters** 31, 83 (2006).

Conference Publications

1. E. W. Streed, M. Ghadimi, V. Blums, B. Norton, P. Connor, J. Amini, C. Volin, M. Lobino, and D. Kielpinski, "Integrated Fresnel Mirrors for Scalable Trapped Ion Quantum Computing," in Conference on Lasers and Electro-Optics, OSA Technical Digest (online) (Optical Society of America, 2016), paper FM2C.2.
2. F. Lenzini, J. Titchener, S. Kasture, A. Poddubny, A. Boes, B. Haylock, M. Villa, A. Mitchell, A. S. Solntsev, A. A. Sukhorukov, and M. Lobino, "A nonlinear waveguide array with inhomogeneous poling pattern for the generation of photon pairs," in Conference on Lasers and Electro-Optics, OSA Technical Digest (online) (Optical Society of America, 2016), paper FTh4A.1.
3. M. I. Hussain, M. Petراسiunas, V. Blums, M. Lobino, E. Streed, and D. Kielpinski, "Picosecond, ultraviolet fiber laser at 300MHz repetition rate: resonant quantum logic gate source," in Conference on

- Lasers and Electro-Optics, OSA Technical Digest (online) (Optical Society of America, 2016), paper FM3C.5.
4. D. Massoubre, L. Wang, J. Chai, G. Walker, L. Hold, M. Lobino, S. Dimitrijević and A. Iacopi, Single-crystalline 3C-SiC thin-film on large Si substrate for photonic applications, Proceeding of the TechConnect World conference 2014, Washington DC (USA).
 5. Mirko Lobino, Anthony Laing, Pei Zhang, Kanin Aungskunsiri, Enrique Martin-Lopez, Joachim Wabnig, Richard W. Nock, Jack Munns, Damien Bonneau, Pisu Jiang, Hong Wei Li, John G. Rarity, Antti O. Niskanen, Mark G. Thompson, Jeremy L. O'Brien, Quantum Key Distribution with Integrated Optics, 014 19th Asia and South Pacific Design Automation Conference (ASP-DAC), Pages: 795-9.
 6. M. Lobino, S. Rahimi-Keshari, D. Korystov, C. Kupchak, E. Figueroa, A. Scherer, B. C. Sanders and A. I. Lvovsky, Quantum-optical process tomography using coherent states, Proceedings of 10th International Conference on Quantum Communication, Measurement and Computation, pp. 197 – 206 Published by American Physical Society (APS), College Park, United States of America, 2011.
 7. E. Figueroa, J. Appel, C. Kupchak, M. Lobino, D. Korystov and A. I. Lvovsky, Electromagnetically-induced transparency and squeezed light, 21 March 2009, Proceedings of Quantum Communication, Measurement and Computing (QCMC 2008), A. I. Lvovsky, eds. **1110**: 249 - 252, University of Calgary, Alberta, Canada, 19 Aug 2008 - 24 Aug 2008, Published by American Institute of Physics Inc., Melville, United States of America (ISBN 0735406476).
 8. K. Kuntz, B. Braverman, S.-H. Youn, M. Lobino, E. M. Pessina and A. I. Lvovsky, Spatial and temporal characterization of a Bessel beam produced using a conical mirror, 21 March 2009, Proceedings of Quantum Communication, Measurement and Computing (QCMC 2008), A. I. Lvovsky, eds. **1110**: 291 - 294, University of Calgary, Alberta, Canada, 19 Aug 2008 - 24 Aug 2008, Published by American Institute of Physics Inc., Melville, United States of America (ISBN 0735406476).
 9. M. Lobino, D. Korystov, C. Kupchak, E. Figueroa, B. C. Sanders and A. I. Lvovsky, Coherent-state quantum process tomography, 21 March 2009, Proceedings of Quantum Communication, Measurement and Computing (QCMC 2008), A. I. Lvovsky, eds. **1110**: 447 - 450, University of Calgary, Alberta, Canada, 19 Aug 2008 - 24 Aug 2008, Published by American Institute of Physics Inc., Melville, United States of America (ISBN 0735406476).

Presentations to international conferences

1. F. Lenzini, B. Haylock, J. C. Loredano, R. A. Abrahao, N. A. Zakaria, S. Kasture, I. Sagnes, A. Lemaitre, H. Phan, D. V. Dao, P. Senellart, M. P. Almeida, A. G. White and M. Lobino, Active Demultiplexing of Single Photons from a Solid State Source, International Conference on Integrated Quantum Photonics, Rome (Italy) September 2017.
2. F. Lenzini, J. Titchener, P. Fisher, A. Boes, A. N. Poddubny, S. Kasture, B. Haylock, M. Villa, A. Mitchell, A. S. Solntsev, A. A. Sukhorukov, and M. Lobino, Direct characterisation of a nonlinear photonic circuit's wave function with laser light, International Conference on Integrated Quantum Photonics, Rome (Italy) September 2017.
3. S. Connell, M. Ghadimi, V. Blüms, B.G. Norton, P. Fisher, J.M. Amini, C. Volin, D. Kielpinski, M. Lobino, and E. W. Streed, Monolithically integrated optics for scalable trapped-ion single-photon sources, Frontiers in Optics. Laser Science Conference, Washington DC (USA) September 2017.
4. B. Haylock, F. Lenzini, J. C. Loredano, R. A. Abrahao, N. A. Zakaria, S. Kasture, I. Sagnes, A. Lemaitre, H. Phan, D. V. Dao, P. Senellart, M. P. Almeida, A. G. White and M. Lobino, Active Spatial Demultiplexing Of A Single Photon Emitter, CLEO Pacific Rim, Singapore, August 2017.
5. E. W. Streed, V.s Blums, M. Piotrowski, M. I. Hussain, B. Norton, S. Connell, S. Gensemer, M. Lobino, Single Atom Sub Atto-Newton Force Sensor in Three-Dimensions, CLEO: QELS_Fundamental Science, 2016, San Jose (USA) June 2017.

6. M. Lobino, M. Ghadimi, V. Blüms, B.G. Norton, P. Fisher, H. Hayden, J.M. Amini, C. Volin, D. Kielpinski, and E. W. Streed, Monolithically integrated optics for scalable trapped-ion single-photon sources, QCMC2016, Singapore July 3-9.
7. F. Lenzini, J. Titchener, P. Fisher, A. Boes, A. N. Poddubny, S. Kasture, B. Haylock, M. Villa, A. Mitchell, A. S. Solntsev, A. A. Sukhorukov, and M. Lobino, Photon pair generation measurements in nonlinear waveguide arrays with specialized poling pattern, QCMC2016, Singapore July 3-9.
8. M. I Hussain, M. Petrasianus, V. Blums, M. Lobino, E. Streed, D. Kielpinski, Picosecond, ultraviolet fiber laser at 300MHz repetition rate: resonant quantum logic gate source, CLEO: QELS_Fundamental Science, 2016, San Jose (USA) June 2016.
9. F. Lenzini, J. Titchener, P. Fisher, A. Boes, A. N. Poddubny, S. Kasture, B. Haylock, M. Villa, A. Mitchell, A. S. Solntsev, A. A. Sukhorukov, and M. Lobino, A nonlinear waveguide array with inhomogeneous poling pattern for the generation of photon pairs, CLEO: QELS_Fundamental Science, 2016, San Jose (USA) June 2016.
10. M. Lobino, A. Laing, P. Zhang, K. Aungkunsiri, E. Martin-Lopez, J. Wabnig, R. W. Nock, J. Munns, D. Bonneau, P. Jiang, H. Wei Li, J. G. Rarity, A. O. Niskanen, M. G. Thompson, J. L. O'Brien, Quantum Key Distribution with Integrated Optics, ASP-DAC 2014, Singapore January 20th-23rd (**invited**).
11. J. C. F. Matthews, M. Lobino, D. Bonneau, J. L. O'Brien, A. Politi, A. Crespi, R. Ramponi, R. Osellame, C. R. Neal, Integrated Optics and Microfluidics for Quantum-Enhanced Sensing, European Conference on Integrated optics 2012, April 17th-22nd 2012. Sitges, Spain.
12. M. Lobino, D. Bonneau, P. Jiang, C. M. Natarajan, M. G. Tanner, R. H. Hadfield, S. N. Dorenbos, V. Zwiller, M. G. Thompson and J. L. O'Brien, Manipulation of telecom photon path and polarisation in lithium niobate devices, European Conference on Integrated optics 2012, April 17th-22nd 2012. Sitges, Spain.
13. D. Bonneau, M. Lobino, P. Jiang, C. M. Natarajan, M. G. Tanner, R. H. Hadfield, S. N. Dorenbos, V. Zwiller, M. G. Thompson and J. L. O'Brien, Fast path and polarisation manipulation of telecom wavelength single photons in lithium niobate waveguide devices, IQEC/CLEO Pacific Rim Conference 28th August-1st September 2011 Sydney (post-deadline presentation).
14. K. Aungkunsiri, M. Lobino, P. Jiang, D. Bonneau, E. Bray, M. Thompson, and J. O'Brien, "Integrated Quantum Photonic Circuits in Lithium Niobate", International Conference on Quantum, Atomic, Molecular and Plasma Physics, 18-22 September 2011 Oxford, U.K.
15. M. Lobino, K. Aungkunsiri, D. Bonneau, E. Engin, D. Fry, J. Hadden, P. Kalasuwan, J. Kennard, T. Lawson, L. Marseglia, E. Martin-Lopez, J. Matthews, J. Meinecke, A. Peruzzo, K. Poulios, P. Shadbolt, A. Stanley-Clark, M. Halder, J. Harrison, D. Ho, P. Jiang, A. Laing, A. Politi, B. Patton, M. Rodas Verde, X-Q. Zhou, M. Cryan, J. Rarity, M. Thompson, S. Yu, and J. O'Brien, Integrated Quantum Photonics, 20th International Laser Physics Workshop (LPHYS'11), July 11–15, 2011, Sarajevo, Bosnia and Herzegovina (**invited**).
16. Mirko Lobino, Quantum Information Science in Optical Waveguides, Quantum Optics V, Cozumel, Mexico (**invited**).
17. Damien Bonneau, Pruet Kalasuwan, Anthony Laing, Jonathan C.F. Matthews, Alberto Peruzzo, Kostas Poulios, Peter Shadbolt, JP Hadden, Joanne Harrison, Antony Stanley-Clarke, Luca Marseglia, Ying-Lung Daniel Ho, Brian Patton, John G. Rarity, Pisu Jiang, Matthaeus Halder, Mirko Lobino, Alberto Politi, Maria Rodas Verde, Xiao-Qi Zhou, Mark Thompson and Jeremy L. O'Brien, Integrated Quantum Photonics, 10th Asian Conference on Quantum Information Science (AQIS'10), August 27-31, 2010, The University of Tokyo.
18. A. Peruzzo, M. Lobino, J. C. F. Matthews, N. Matsuda, A. Politi, K. Poulios, X. Zhou, Y. Lahini, N. Ismail, K. Wörhoff, Y. Bromberg, Y. Silberberg, M. G. Thompson and J. L. O'Brien, Multi-Particle Quantum Walk in Integrated Photonic Circuits, Integrated Photonics Research, Silicon and Nano Photonics, Monterrey, July 25-28 2010.

19. M. Lobino, J. C. F. Matthews, A. Peruzzo, A. Politi, A. Laing, P. Kalasuwan, X.-Q. Zhou, M. Rodas Verde, M. J. Cryan, J. G. Rarity, A. Stefanov, S. Yu, M. G. Thompson, J. L. O'Brien, Quantum information science in optical waveguides (**invited**), Second Peter Brojde Workshop on Physical Implementation of Quantum Information, Yad ha Shmona, Israel, 9 December 2009.
20. M. Lobino, Memory for light and Quantum Communication (**invited**), Colloquium at the Racah Institute of Physics, Hebrew University of Jerusalem, Jerusalem, Israel, 7 December 2009.
21. C. Kupchak, M. Lobino, E. Figueroa and A. I. Lvovsky Process tomography of quantum-optical memory (**invited**), International Laser Physics Workshop (LPHYS'09) Barcelona, Spain, 13 July 2009 - 17 July 2009.
22. M. Lobino, C. Kupchak, E. Figueroa, J. Appel and A. I. Lvovsky A peek into a quantum black box (**plenary**), The 54th Annual conference of the South African Institute of Physics Durban, South Africa, 6 July 2009 - 10 July 2009.
23. M. Lobino, C. Kupchak, E. Figueroa, J. Appel and A. I. Lvovsky Do we need quantum light to test quantum memory? (**invited**), Quantum Optics VII Zakopane, Poland, 8 June 2009 - 12 June 2009.
24. M. Lobino, Coherent State Quantum Process Tomography (**invited**), 40th Annual Meeting of the APS Division of Atomic, Molecular and Optical Physics (DAMOP 2009) Charlottesville, 19 May 2009 - 23 May 2009.
25. B. C. Sanders, M. Lobino, D. Korystov, C. Kupchak, E. Figueroa and A. I. Lvovsky Complete Characterization of Quantum-Optical Processes (**plenary**) Physics of Quantum Electronics (PQE 2009) Snowbird, Utah, 4 January 2009 - 8 January 2009.
26. M. Lobino, E. Figueroa, D. Korystov, C. Kupchak, B. C. Sanders and A. I. Lvovsky A continuous-variable approach to process tomography (**invited**) Quantum Estimation: Theory and Practice Waterloo, Ontario, Canada, 25 August 2008 - 30 August 2008
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