



IVETTE FUENTES

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group website: <http://rqinottingham.weebly.com/>

ACADEMIC HISTORY

- 2015- present **Faculty of Physics, University of Vienna**
Professor of Theoretical Quantum Optics
- 2012- present **School of Mathematical Sciences, University of Nottingham**
Associate Professor (on leave)
- 2009-2012 **School of Mathematical Sciences, University of Nottingham**
Lecturer and EPSRC Career Acceleration Fellow
- 2008–2009 **Technical University of Berlin, Institute for Theoretical Physics, Germany**
Humboldt Fellowship for Experienced Researchers
- 2006-2010 **University of Waterloo, Institute for Quantum Computation, Canada**
Affiliate
- 2006–2007 **Universidad Nacional Autónoma de México, Instituto de Ciencias Nucleares**
Assistant Professor (Investigador Titular A)
- 2004–2005 **University of Oxford, Centre for Quantum Computation, UK**
Glasstone Research Fellowship, 3 year appointment (2004-2007)
- 2004–2005 **University of Oxford, Mansfield College, UK**
Junior Research Fellowship, 2 year appointment (2004-2006)
- 2002–2006 **Perimeter Institute for Theoretical Physics, Canada**
Postdoctoral Fellowship, Quantum Information Group, Mentor: R. Laflamme
- 1999–2003 **Imperial College, University of London, UK**
PhD in Theoretical Physics, 28 February 2003
Advisor: Prof. P. L. Knight (FRS) and Prof. V. Vedral
Thesis: Entanglement and geometric phases in light-matter interactions

RESEARCH GRANTS

- 2014-2015 **Engineering and Physical Sciences Research Council (EPSRC), UK**
INSPIRE Award, *Oscillation-based quantum gravimeter*
Role: Principal Investigator £50, 000.0
- 2013-2014 **The Royal Society, UK**
International Exchanges Award, *Decoherence and extraction of entanglement in relativistic QFT*
Role: Principal Investigator, Overseas Scientist: Timothy Ralph (Queensland), Value: £5,984.0
- 2012-2014 **Engineering and Physical Sciences Research Council (EPSRC), UK**
New Directions Research Award *Relativistic Quantum Metrology*
Role: Sole Principal Investigator, Value: £300, 000.0
- 2009-2014 **Engineering and Physical Sciences Research Council (EPSRC), UK**
Career Acceleration Fellowship *Exploiting Relativity in Quantum Information*
Role: Sole Principal Investigator, Value: £527,372.0
- 2012-2013 **Engineering and Physical Sciences Research Council (EPSRC), UK**
Bridging the Gaps *Relativistic Quantum thermometry with a Bose Einstein Condensate*
Role: Principal Investigator, Value: £42,030.0
- 2007–2008 **Universidad Nacional Autónoma de México**
PAPIIT research grant for the project *Quantum Information and Quantum Computation*
Role: Sole Principal Investigator
- 2007–2008 **Mexican National Council for Science and Technology (CONACyT)**
National Research Grant, Level 1
- 2006 **Chilean National Council for Science and Technology (FONDECyT)**
Research grant no. 706012 for visits to Chile
- 2006–2007 **Hewlett-Packard Labs, Bristol, UK**
QUIPROCONE grant no. 040. Research grant for work in quantum information

COMMITTEE SERVICE

- 2014- 2016 **International Society for Relativistic Quantum Information**
Elected co-Chair, Executive Committee
- 2010- 2014 **International Society for Relativistic Quantum Information**
Secretary, Executive Committee
- 2009–2011 **American Physical Society**
2-Year Member-at-Large, Executive Committee, Topical Group in Quantum Information
- 2012- present **Ministry of Knowledge of Economics, Korea**
Quantum Information and Communication Technology Forum
Member of the International Advisory Committee
- 2010-present **School of Mathematical Sciences, University of Nottingham**
member of the Research Board
- 2012-2013 **School of Mathematical Sciences, University of Nottingham**
Chair of the Athena Swan Committee
- 2013-present **School of Mathematical Sciences, University of Nottingham**
deputy member of the Women in Science Engineering and Technology Group
- 2010-present **School of Mathematical Sciences, University of Nottingham**
member of the Athena Swan Committee
- 2003–2004 **Perimeter Institute**
Member of the postdoctoral fellow selection committee

PROFESSIONAL SERVICES

Panel member and project reviewer for Future Emerging Technologies, European Commission.
 Member of the EPSRC Peer Review College
 Panel member at the EPSRC Physical Sciences Physics Panel Meeting : 26th September 2010
 Panel Chair at the EPSRC Physical Sciences Physics Panel Meeting: May 2014

PERSONAL DEVELOPMENT

2012 Residential Course on Research Team Leadership, The Leadership Foundation.
 2014 INSPIRE Physical Sciences Workshop, Developing Leaders team, EPSRC.
 2014 Physical Sciences Leaders Workshop, EPSRC.

REFEREE FOR SCIENTIFIC JOURNALS

Annals of Physics
 Canadian Journal of Physics
 Europhysics Letters
 International Journal of Quantum Information
 JOSA B Optical Society of America
 Journal of Mathematical Physics
 Journal of Modern Optics
 Journal of Optics B
 Journal of Physics A
 Journal of Physics B
 Nature Physics
 New Journal of Physics
 Physics Letters A
 Physical Review A
 Physical Review Letters
 Proceedings of the Royal Society
 Scientific Reports, Nature
 Quantum Information and Computation
 Referee for Quantum Information Processing 2013
 Referee for research grants: Dirección Nacional de Ciencia y Tecnología, Uruguay
 Referee for Discovery Research Grants: NSERC, Canada
 Referee for SSC Grants: EPSRC, UK

GROUP MEMBERS

I created and currently lead a group working on relativistic quantum information. Our group is considered to be leading at an international level. For more details please visit our website: <http://rqinottingham.weebly.com/>

Postdoctoral Researchers

2012-2014 Mehdi Ahmadi
 2012-2014 Jason Doukas
 2010-2012 Andrzej Dragan (now Assistant Professor at University of Warsaw)
 2013-2015 Antony R. Lee (EPSRC Doctoral Prize)
 2012-2014 Carlos Sabin
 2012-2013 Angela White (now EPSRC Research Fellow at University of Newcastle, UK)

Fellowship host for

S. Weinfurter, Nottingham Advanced Fellowship (value £217,163.0) and Royal Society Fellowship (value £598,062.0).

Current PhD students

Karishma Hathlia, University of Nottingham. First year. Maximillian Lock, Doctoral Training Center, Imperial College London
 Dominik Šafránek, University of Nottingham. Second year.
 Tupac Bravo Ibarra, University of Nottingham, funded by CONACyT, Mexico. Second year.
 Giannis Kogias, University of Nottingham. Third year.
 Samy Ragy, University of Nottingham. Third year

Graduated PhD students

2013. Nicolas Friis, University of Nottingham. Thesis: Cavity Mode Entanglement in RQI

2013. Anthony Lee, University of Nottingham. Thesis: Localised Systems in Relativistic Quantum Information

Graduated Diploma [equiv. MSc] students

2009–2010 Thomas Isele, Technical University of Berlin. Thesis: *Generalized entanglement in relativistic settings*

2008–2009 Martin Kliesch, Technical University of Berlin. Thesis: *Holonomies and their applications in exact models*

Summer Project Students

2013 Bartoz Regula, University of Nottingham, Internship funded by EPSRC

2012 Kevin Truong, University of Nottingham, Internship funded by EPSRC

Other student supervision

2006–2008 **Licenciatura [equiv. BSc] thesis supervisor**

of Cristopher Hernández Salinas, UNAM

Thesis: *Many-body collisions in the two-mode Bose-Einstein Condensate*

2006–2007 **PhD thesis Tutorial Committee Member**

of Osvaldo Jimenez Farias, UNAM

2004–2005 **Assisted Prof. K. Banaszek supervise PhD thesis**

for Jonathon Ball, University of Oxford, UK

2000–2002 **Assisted Prof. V. Vedral supervise PhD thesis**

of Angelo Carollo, Imperial College, London, UK

2001 **Assisted Prof. V. Vedral supervise undergraduate research project**

of Julian Hartley, Imperial College, London, UK

Long-term visitors

2014 Jan Kohlrus, Aix-Marseille Université, 4 months internship funded by M2P3TMA/A*MIDEX.

2013 David E. Bruschi, The Hebrew University of Jerusalem, regular visitor.

2013 Farouk Ghiti, Constantine 1 University, Algeria, 1 month.

2013 V Baccetti, Victoria University of Wellington, 7 months.

2013 L. Cortes Barbado, U. Complutense de Madrid, 3 months, funded by Spanish Science Ministry.

2010 E. Martin-Martinez, U. Complutense de Madrid, 6 months, funded by Spanish Science Ministry.

2010 T. Downes, University of Queensland, 1 month, funded by University of Queensland.

TEACHING EXPERIENCE

I have been excused from teaching and other school duties since my appointment at the University of Nottingham in 2009 so that I can focus on work for my EPSRC Career Acceleration Fellowship and New Directions Award.

- 2014 **First year undergraduate tutor**
University of Nottingham, UK
- 2013 **First year undergraduate tutor**
University of Nottingham, UK
- Canadian Summer School on Quantum Information**
Calgary, Canada
4.5hr lecture series on Relativistic Quantum Information delivered in May 2013
- Summer School on Quantum Information, Computing and Control**
Imperial College London, UK
4.5hr lecture series on Relativistic Quantum Information delivered in Sep 2013
- 4th Quarter Lectures on Quantum Field Theory for Quantum Information,**
CSIC Madrid, Spain
4.5hr lecture series on Relativistic Quantum Metrology delivered by C. Sabin on my behalf
- 2011 **International School on Quantum Information**
Bhubaneswar, India
3hr lecture series on Quantum entanglement
- 2010 **Summer School on Diversities in Quantum Computation/Information,**
Osaka, Japan
7.5-hour course on Relativistic Quantum Information
- 2010 **Workshop in honour of Reinhold Bertlmann, Vienna, Austria**
3-hour course on Relativistic Quantum Information
- 2008 **International Iran Summer School**
4-hour course on Relativistic Quantum Information
- Technical University of Berlin**
Supervisor at seminar course
From qubits to quantum computers
- 2007 **Universidad Nacional Autónoma de México, México**
designed and taught 48-hour undergraduate course
Quantum Information and Computation II
- 2006 **Universidad Nacional Autónoma de México, México**
designed and taught 48-hour undergraduate course
Quantum Information and Computation I
- 2005 **Universidad de Concepción, Chile**
Invited Visiting Professor. Lecture Series on *Geometric Phases*
- University of Tokyo, Japan**
Invited Visiting Professor. Lecture Series on *Holonomic Quantum Computation*
- 2004 **University of Waterloo, Canada**
Invited Visiting Professor. Lecture Series on *Holonomic Quantum Computation*
- 2003 **Perimeter Institute for Theoretical Physics, Waterloo, Canada**
Tutor at the International Summer School for Young Physicists
- 2001–2002 **Imperial College, London, UK**
Demonstration classes for first-year seminars
Demonstration classes and marking for third-year *Quantum Mechanics rapid feedback*
- 1997–1999 **Universidad Nacional Autónoma de México, México**
Tutor at the Mathematics Workshop, Faculty of Sciences

ACADEMIC RESPONSIBILITIES

- 2014 **Internal PhD examiner, University of Nottingham, February 2014**
Merlijn van Horssen
- 2013 **External PhD examiner, University of Vienna, Austria**
Fabio Costa
- 2012 **External PhD examiner, Imperial College, London, 19 November**
Mehdi Ahmadi
- External PhD examiner, Uppsala University, 7 June**
Markus Johansson
note: I was not able to attend the exam due to surgery
- 2011 **External PhD examiner, Universitat Autònoma de Barcelona, 28 October**
Mariona Aspachs
- External PhD examiner, Universidad Complutense de Madrid, 22 June**
Eduardo Martin-Martinez
- 2010 **First year report viva examiner, University of Nottingham**
Hugo Ferreira, Benito Juarez
- 2010-2012 **First, second and third year report viva examiner, University of Nottingham**
Merlijn van Horssen
- 2007 **Internal Examiner, Universidad Nacional Autónoma de México**
Igor Peña Ibarra (PhD thesis)
Carlos Pineda (PhD thesis)
Maurico Torres (PhD admission examination)

ORGANIZATION OF CONFERENCES AND ACADEMIC EVENTS

2015	Gavity in the Lab Main organizer	Benasque, Spain
2014	Relativistic Quantum Metrology Workshop Main organizer, funded by my EPSRC New Directions award with the participation of more than 30 researchers including R. Penrose (Oxford), M Kasevich (Stanford), Roman Schnabel (Hannover)	Nottingham, UK
	Relativistic Quantum Information North Workshop International Organizing Committee	Seoul, Korea
2013	Relativistic Quantum Information North Workshop Main organizer, funded by my EPSRC New Directions award with the participation of more than 90 researchers including W. Unruh, C. Roveli, P. Delsing	Nottingham, UK
	When Relativistic Quantum Information met Analogue Gravity Organizer, funded by my EPSRC New Directions award	Nottingham, UK
2011	Relativistic Quantum Information Workshop member of the International Organizing Committee	Madrid, Spain
	Relativistic Quantum Information Mini-workshop main organizer	Nottingham, UK
2010	International Iran Conference on Quantum Information member of the Programme Committee	Kish, Iran
	Developments in Computational Models member of the Programme Committee	Edinburgh, UK
	Quantum Information meets gravity mini-workshop main organizer	Nottingham,UK
2009-2010	Quantum Stochastics and Information Seminar Series main organizer	Nottingham, UK
	Quantum Information and Cold Atoms Seminar Series Initiator and main organizer (with P. Krüger and L. Hackermuller)	Nottingham, UK
2009	Relativistic Quantum Information mini-workshop main organizer	Nottingham,UK
2008	Quantum information, Q optics, Q many-body theory monthly meetings in the Berlin-Brandenburg area Initiator and organizer (with J. Eisert)	Berlin, Germany
2007	Latin American School of Physics: Quantum Information and Quantum Cold Matter Member of the organizing committee	México City
2004	Quantum Information Processing Conference Member of the local organizing committee	Waterloo, Canada
2003	Relativistic Quantum Information Mini-workshop Main organizer (with D.Terno)	Perimeter Inst., Canada
2003	Quantum Information and Relativity Mini-workshop Main organizer (with D.Terno)	Perimeter Inst., Canada
2002–2004	Seminar Series PIQUDOS Initiator, chair and organizer	Perimeter Inst., Canada
1997–1999	Seminar Series for Postgraduate Students Initiator, chair and organizer	UNAM, México

CONFERENCES

Plenary talks

- 2012 Vienna Central European Seminar University of Vienna, Austria
 2011 Annual Meeting of the German Female Physicists Saarbruecken, Germany

Invited talks

- 2014 New Frontiers of Quantum Information Theory Ascoli Piceno, Italy
to be delivered in July 2014
 Paris Centre for Quantum Computation inaugural workshop Paris, France
not able to accept invitation
 Advanced many-body physics and statistical methods in mesoscopic systems Brasov, Romania
to be delivered in Sep 2014
 Quantum Optics VII. Mar del Plata, Argentina
to be delivered in October 2014
 Fundamentality and Parsimony in Metaphysics Workshop Nottingham, UK
 Relativistic Quantum Information North Workshop Seoul, Korea
 Information and Interactions Workshop at Trinity College Cambridge, UK
 COST action on Fundamental Problems in Quantum Physics Rehovot, Israel
 DSTL Quantum Information Technologies Workshop Bristol, UK
could not be delivered.
 International Program on Quantum Information Bhubaneswar, India
not able to accept invitation
- 2013 7th Workshop in Relativistic Quantum Information University of Queensland, Australia.
to be delivered on Dec 10, 2013
 Canadian Summer School on Quantum Information Calgary, Canada
 Summer School on Quantum Information, Computing and Control Imperial College London, UK
 Lectures on Quantum Field Theory for Quantum Information CSIC Madrid, Spain
delivered by C. Sabin on my behalf
 Quantum Fields, Gravity and Information Postgraduate Conference Nottingham, UK
 Conference on Quantum Information Processing and Applications Allahabad, India.
not able to accept invitation
 Workshop on Entanglement in Curved Spacetime, Banff, Canada
not able to accept invitation
 "Quo vadis Quantum Physics?" Natal, Brazil
not able to accept invitation
 3rd Annual World Congress of Nanoscience and Technology Xian, China.
not able to accept invitation
- 2012 Physics of Quantum Electronics Workshop Snowbird, Utah
 British Applied Mathematics Colloquium London, UK
 Relativistic Quantum Information Workshop North Perimeter Institute, Canada
talk not delivered due to Visa arriving to late to travel
 Workshop on Effective Gravity in Fluids and Superfluids ICTP, Trieste, Italy
 Relativistic Quantum Information Workshop South Brisbane, Australia
could not accept invitation due to plenary invitation in Vienna
- 2011 International Conference on Quantum Information Bhubaneswar, India
 Lecture series at International School on Quantum Information Bhubaneswar, India
 Relativistic Quantum Information Workshop Durban, South Africa
 Signatures of Quantumness in Complex Systems Workshop Nottingham, UK
- 2010 Relativistic Quantum Information Workshop Brisbane, Australia
 Summer School on Diversities in Quantum Computation/Information Osaka, Japan
 International Workshop on Relativistic Quantum Information Hualien, Taiwan
 Workshop in honour of Reinhold Bertlmann Vienna, Austria

Invited talks (continued)

2009	Relativistic Quantum Information Workshop delivered by T. Isele on my behalf	Brisbane, Australia
	International Program on Quantum Information not delivered due to visa problems	Bhubaneswar, India
	International Iran Summer School	Kish Island, Iran
2008	March Meeting of the American Physical Society	New Orleans, USA
	International Iran Summer School A2-Meeting	Kish Island, Iran Potsdam University
2007	Int'l Conf. on Quantum Probability and Related Topics	Guanajuato, México
2006	Annual Meeting Mex. Phys. Soc. (Particles and Fields)	México City
	Subtle Technologies Conference	Toronto, Canada

Contributed talks

2013	Loops	Perimeter Institute, Canada.
2012	Workshop in Quantum Simulations	Bilbao, Spain
2010	March Meeting of the American Physical Society	Portland, USA
2008	Network Meeting of the Alexander von Humboldt Foundation	Münster, Germany
2006	Mini-workshop on QIP and Many Body Physics	University of Hertfordshire, UK
2005	Oxford-Imperial Quantum Meeting QUOXIC	Imperial College, UK
2004	Quantum Gravity and Quantum Information Quantum Information Processing Conference	Newton Institute, UK Waterloo, Canada
2003	Quantum Information and Relativity Mini-workshop	Perimeter Institute, Canada
2001	Les Houches Physics School	Les Houches, France
2000	Young Researchers Meeting	Durham, UK

Posters

2004	Quantum Gravity in the Americas	Perimeter Institute, Canada
2003	Forth European QIPC Workshop	Oxford, UK
2002	Quantum Communication, Computing and Computing Southwest Quantum Information and Technology	MIT, USA NIST, USA

Participation

2004	Latin American School of Physics	México City
2003	Quantum Information and Communication	Benasque, Spain
2000	Instructional Course in Quantum Computing	Edinburgh, UK
1998	Escuela Mexicana de Partículas y Campos	Oaxaca, México
1998	Latin American School of Physics	México City
1997	Escuela Mexicana de Partículas y Campos	Morelia, México

COLLOQUIUMS

2013	University of Chalmers	UK	invited by
2012	University of St Andrews	UK	P. Delsing
	MPIPKS Dresden	Germany	J. Keeling
			M. Hentschel
	<i>cancelled due to surgery</i>		

SEMINARS AT UNIVERSITIES AND RESEARCH INSTITUTES

2014	LENS, Florence	Italy	invited by
	Western University, London	Canada	A. Smerzi
	Western University, London	Canada	D. Jeffrey
	IQC University of Waterloo, Waterloo	Canada	W. Myrvold
	Perimeter Institute, Waterloo	Canada	C. Wilson
	Saarland University, Saarburucken	Germany	F. Mercatti
	University of Vienna, Vienna	Austria	F. Wilhelm-Mauch
	University of Oxford	UK	C. Bruckner
	University of Cambridge	UK	V. Vedral
	2013	Q+ Hangout Seminar broadcasted to several Universities worldwide	Youtube
http://www.youtube.com/watch?v=7GXmb2h92TE			D. Burgarth
University of Birmingham		UK	K. Bongs
2012	University of Newcastle	UK	N. Proukakis
	University of Oxford	UK	K. Hannabuss
	Queen Mary, University of London	UK	H. Touchette
2011	University of Oxford	UK	C. Heunen
	Universidad Nacional Autonoma de Mexico	Mexico	P. Barberis
	Universidad Nacional Autonoma de Mexico	Mexico	P. Barberis
	University of Nottingham	UK	I. Lesanovsky
	University of York	UK	E. Hawkins
2010	University of Manchester	UK	A. McKane
	University of Cambridge	UK	A. Montaro
2009	University of Nottingham	UK	I. Lesanovsky
	University of Nottingham	UK	P. Krüger
2008	University of Nottingham	UK	Y. Fyodorov
	University of Vienna	Austria	R. Bertlmann
	University of Bristol	UK	R. Jozsa
	University College London	UK	S. Bose
	Royal Holloway, University of London	UK	K. Audenaert
	University of Nottingham	UK	G. Adesso
	University of Oxford	UK	A. Briggs
	Technical University of Berlin	Germany	T. Brandes
	Free University of Berlin (QQQ meeting)	Germany	I. Peschel
	Technical University of Berlin	Germany	T. Brandes
2007	University of Potsdam	Germany	M. Wilkens
	Instituto Tecnológico Autónomo de México	México	F. Esponda
	University of Heidelberg	Germany	M. Oberthaler
	Technical University of Kaiserslautern	Germany	J. Korsch
	University of Waterloo	Canada	R. Mann
	Perimeter Institute	Canada	L. Hardy
	University of Waterloo	Canada	K. Lamb
	IIMAS, UNAM	México	R. Weder
	Universidad Autónoma Metropolitana	México	A. Salas
	Technical University of Kaiserslautern	Germany	J. Korsch
2006	Instituto de Ciencias Nucleares, UNAM	México	H. Quevedo
	DESY, University of Hamburg	Germany	K. Sengstock
	University of Salerno	Italy	F. Illuminati
	University of Oxford	UK	C. Foot
	Imperial College, London	UK	M. Plenio
	University of Cambridge	UK	A. Kent
	University of Cambridge	UK	M. Ericsson
	Instituto de Física, UNAM	México	M. Mondragon
	CCF Cuernavaca, UNAM	México	T. Seligmann
	Instituto de Ciencias Nucleares	México	H. Quevedo

2005	Institute for Quantum Computing, UW	Canada	R. Laflamme
	University of Salerno	Italy	F. Illuminati
	Fields Institute, Toronto	Canada	D. Lidar
	Universidad Católica	Chile	M. Orzag
	Universidad de Concepción	Chile	L. Roa
2004	University of Oxford	UK	I. Walmsley
	Perimeter Institute	Canada	D. Gottesman
	Perimeter Institute	Canada	M. Mosca
	University of York	UK	T. Sudbury
2003	University of Tokyo	Japan	M. Murao
	University of Cambridge	UK	A. Kent
	Perimeter Institute	Canada	L. Hardy
2002	University of Waterloo	Canada	R. Laflamme
	Imperial College, London	UK	V. Vedral
	Instituto de Ciencias Nucleares, UNAM	México	J. de Olivo
	University of New México	USA	C. Caves
	Los Alamos National Laboratory	USA	W. Zurek
	University of New México	USA	C. Caves
2001	University of Waterloo	Canada	M. Mosca
	Imperial College, London	UK	P. Knight

OUTREACH ACTIVITIES

- 2013 **Short Film:** Co-authored script and story design for a short film by Cannes Lions nominee Andrzej Dragan. The film, called Hierarchy Lost, is about a scientist (trailer can be seen at: <http://vimeo.com/74201499>)
- 40 artists participated in the making of the film including W. Pokromski (Schindler's List, Perfume, etc.).
- 2012 **Video:** Created video on relativistic quantum information: <http://www.youtube.com/watch?v=HaLyrt9876k>.
- Video:** Interviewed on video by B. Haran on Emptiness.
- Video:** Interviewed on video to promote the Framework status of the University of Nottingham with EPSRC and to be shown during the launch of the Manufacturing Institute.
- 2011 **Theater:** Conducted the question-answer session on Jon Spooner's play Ethics of Progress, Cambridge
- Social Network:** Creator and administrator of Facebook page: Relativistic Quantum Information
- Social Network:** Creator and administrator of Facebook group: Alice: Women in quantum information
- Social Network:** Administrator of Facebook page: Quantum information and quantum computation scientists
- Social Network:** Administrator of Facebook page: Women in Mathematics
- Social Network:** Administrator of Facebook page: The quantum information club
- Social Network:** Administrator of Facebook page: University of Nottingham: School of Mathematical Sciences
- Social Network:** Administrator of Facebook page: Quantum Astronaut
- Social Network:** Administrator of Facebook page: PeopleSat
- Social Network:** Twitter account on Relativistic Quantum Information

OUTREACH TALKS

- 2014 **Women in Tech, Nottingham**
invited talk on my work and experience as a women working in Quantum Technologies
TEDxBenasque, Spain
invited talk on Gravity at Radical Benasque
- 2013 **Oxford University Physics Society**
invited talk on my work on Relativistic Quantum Information
School of Mathematical Sciences, University of Nottingham
Open Day
- 2012 **Palmolive Women's Network, Palmolive Mexico**
invited talk to motivate women pursuing successful careers
- 2011 **School of Mathematical Sciences, University of Nottingham**
Open Day
- 2010 **School of Mathematical Sciences, University of Nottingham**
Open Day
- 2006 **Instituto de Ciencias Nucleares, UNAM, México**
Open Day
Instituto de Astronomía, UNAM, México
Symposium on Arts and Science
Instituto de Ciencias Nucleares, UNAM, México
Symposium on Arts and Science
Mexican Association of Media Communication
Short talk addressing the Mexican Secretary of Foreign Relations, L. E. Derbez
- 2004 **Subtle Technologies Conference, Toronto, Canada**
Invited talk
Department of Fine Arts, University of Waterloo
Symposium on Arts and Science
Mexican Association of Media Communication
talk addressing Media Communicator P. Ferriz
- 2002 **Perimeter Institute Outreach Program**
talk at high school in Waterloo, Canada

SCIENTIFIC AND MEDIA COVERAGE OF MY WORK

- 2014 **Z. Merali, Nature.**
I have been interviewed for a feature article about my work for Nature.
- A. Ananthaswamy, New Scientist, 2960, (2014).**
Desktop quantum cloud to hunt elusive space-time waves
 Article covering my work on our new phononic gravitational wave detector
- Lisa Zyga, phys.org (2014).**
Space-based experiment could test gravity's effects on quantum entanglement
 Article covering my work on the effects of gravity on space-based quantum information experiments
- C. Sabin, The Conversation, 21 March 2014, 2.48pm GMT, (2014).**
The next big deal: detecting gravitational waves at your desk
 Article covering my work on our new phononic gravitational wave detector
- C. Sabin, The Conversation, 17 June 2014, 5.47pm BST (2014).**
To test the effect of gravity on quantum entanglement, we need to go to space
 Article covering my work on the effects of gravity on space-based quantum information experiments
- C. Sabin, The Conversation, 16 April 2014, 6.20am BST**
How to test the twin paradox without using a spaceship
 Article covering my work on how to implement the twin paradox using superconducting circuits
- Rainer Kayser, Welt der Physik, Weltraum aktuell (2014).**
Quantendetektor für Gravitationswellen
 Article covering my work on our new phononic gravitational wave detector
- 2013 **S. Hebden, New Scientist, 2913, p. 34, (2013).**
Space oddity: Putting quantum weirdness into orbit
 Cover article mentioning my work on the effects of gravity on space-based quantum information experiments
- J. Aron, New Scientist, 2919, p. 34, (2013).**
Quantum thermometer could measure coldest thing ever.
 Article reporting on my work on the quantum thermometer: arXiv:1303.6208.
- D. Neumann, Superconductor Week 27 (6), 6-8 (2013) .**
Featured article on my results on relativistic effects on quantum teleportation Phys. Rev. Lett. 110 (2013).
- R. Burks, Dvice, May 31, 2013**
Quantum thermometer could measure coldest known temperature
 Article reporting on our quantum thermometer: arXiv:1303.6208
- Jose Manuel Nieves, ABC.es 31/05/2013**
Un termometro para medir agujeros negros
 Article on a prestigious newspaper in Spain reporting on our quantum thermometer: arXiv:1303.6208
- 2011 **L. Grossman, Wired**
Quantum entanglement could stretch across time
 I comment on work by Olson and Ralphs' work
- 2005 **A. Cho, Science, 309, 1801 (2005)**
To escape from quantum weirdness: put the pedal to the metal
 Article explaining my work in Phys. Rev. Lett. 95 120404 (2005) to a wider audience
- 2010 **Portrait and video about my work by J. Perivolaris**
 Retratos de Independencia: Bicentennial Portraits of Latin American Women in England
<http://retratosdeindependencia.weebly.com/>
 exhibition shown at Night of Festivals, Nottingham UK

- 2008 **Referat für Presse und InformationTUB-newsportal**
Reporting on my Alexander von Humboldt Fellowship
- 2004 **R. Simone, Quantum Love, The Record June 12** (reprinted in Innovation Canada)
Interview on aspects of my work with Frederic Schuller
- One-hour interview on Mexican National Radio** with Pedro Ferriz, 98.5FM
Interview on my points of view on quantum mechanics

EXTENDED ACADEMIC VISITS

- 2008–2009 **Technical University of Berlin, Institute for Theoretical Physics, Germany**
Humboldt Fellowship for Experienced Researchers
- 2008 **University of Potsdam, Germany** (M. Wilkens)
invited visit for six months at the Institute of Physics
- 2007 **Technical University of Kaiserslautern, Germany** (J. Korsch)
invited visit for two months at the Department of Physics
- University of Waterloo, Canada** (K. Lamb & R. Mann)
invited visit for two weeks at the Department of Applied Mathematics
- University of Salerno, Italy** (F. Illuminati)
invited visit for three weeks at the Department of Physics
- 2006 **University of Cambridge, UK** (M. Ericsson)
invited visit for four weeks at DAMTP
- DESY University of Hamburg, Germany** (K. Sengstock)
invited visit for two weeks at the Quantum Gases and Spectroscopy Group at DESY
- 2005 **University of Salerno, Italy** (F. Illuminati)
invited visit for three weeks at the Department of Physics
- University of Concepción, Chile** (L. Roa)
invited visit for three weeks at the Department of Physics
- 2004 **University of Tokyo, Japan** (M. Murao)
invited visit for two weeks at the Quantum Information Group
- Perimeter Institute for Theoretical Physics, Canada** (H. Burton)
invited visit for two months in the Quantum Information Group
- 2002 **University of New Mexico, USA** (C. Caves)
long-term visiting researcher for nine months at the Information Physics Group
- 2003 **Imperial College, London** (V. Vedral)
invited visit for four weeks at the Quantum Optics Group. Visit funded by Hewlett-Packard
- 1996 **FERMILAB** (D. Jovanovic and H. Castillo)
student visit for three months at DZero

MEMBERSHIPS

- 2010– **International Society for Relativistic Quantum Information**
2008–2011 **American Physical Society, Topical Group for Quantum Information**

OTHER SERVICES

- 2004 **Mansfield, College, University of Oxford, UK**
 Founding member of the Mansfield College Science Society
- 1999–2001 **Imperial College, UK**
 Subwarden at Southwell Halls of Residence

CITATION REPORT

I have produced approximately sixty papers with a total of 2154 citations (h-index 24) according to Google scholar, the vast majority in high impact journals. For example, twelve of them are published in Phys. Rev. Lett. (impact factor 7.37) and nine in Phys. Rev. D (impact factor 4.558). I have also been invited to submit four papers, including a review article on observer-dependent entanglement for the Focus Issue on Relativistic Quantum Information of Class. Quant. Grav, a review article on Relativistic Quantum Information for Foundations of Physics invited by Nobel Laureate G. 't Hooft, and an article for a Focus Issue on Gravitational Quantum Physics in New Journal of Physics. I have seven papers with 100+ and six more with 50+ citations (Google scholar). I have produced lecture notes on Relativistic Quantum Information to be published in Kinki University Series on Quantum Computing, World Scientific.

5 Most-cited publications:

- [1] **citations: 223**
 I. Fuentes-Schuller & R.B. Mann
 Alice falls into a black hole: Entanglement in noninertial frames
 Physical Review Letters, 95, 120404 (2005)
- [2] **citations: 223**
 A. Carollo, I. Fuentes-Guridi, M. F. Santos, & V. Vedral
 Geometric phase in open systems
 Physical Review Letters, 90, 160402/1-160402/4 (2003)
- [3] **citations: 219**
 S. Bose, I. Fuentes-Guridi, P. L. Knight, & V. Vedral,
 Subsystem purity as an enforcer of entanglement
 Physical Review Letters, 87, 050401/1-050401/4, (2001)
- [4] **citations: 174**
 P. M. Alsing, I. Fuentes-Schuller, R.B. Mann, & T.E. Tessier
 Entanglement of Dirac fields in non-inertial frames
 Physical Review A, 74, 3 (2006)
- [5] **citations: 123**
 D. Dultzin-Hacyan, Y. Krongold, I. Fuentes-Guridi, & P. Marziani
 The close environment of Seyfert galaxies and its implication for unification models
 Astrophysical Journal Letters, 513, L111-L114(1999)

Citation source: google scholar (updated June 2014).
 For other citation sources please look at publication list.

LANGUAGES

- 2008 Spanish (Native), English (fluent)
Goethe Institute, Berlin
 Four month intensive German course awarded by the Alexander von Humboldt Foundation
 Completed B1 level of European reference frame