

# Curriculum Vitae

*Fernando Quevedo*

## Personal Data

*Place and Date of Birth:* San José, Costa Rica 12 May 1956

*Citizenship:* Guatemala/Spain

*Marital Status:* Married, three daughters.

*Address:*

Department of Applied Mathematics and Theoretical Physics (DAMTP)

Centre for Mathematical Sciences

University of Cambridge

Wilberforce Road

Cambridge CB3 0WA, UK

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## Education

*Ph.D.* in Physics, April 1986

The University of Texas at Austin

*Graduate Adviser:* Professor Steven Weinberg (Nobel prize 1979)

*B.Sc.* In Physics, April 1979

Universidad Del Valle de Guatemala

## Professional Experience

Department of Applied Mathematics and Theoretical Physics, University of Cambridge

*Professor of Theoretical Physics*, since October 2003 (on leave of absence 2009-2019).

*Reader in Theoretical Physics* October 2001- September 2003.

*University Lecturer* October 2000-September 2001.

Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy.

*Director*, (level of *UNESCO Assistant Director General (ADG)*) 2009-2019.

Gonville and Caius College, University of Cambridge

*Teaching Fellow*, since October 2001 (on leave of absence 2009-2019).

Department of Applied Mathematics and Theoretical Physics, Cambridge

*PPARC Advanced Research Fellow*, September 1998 - September 2003.

Clare Hall, University of Cambridge

*Research Fellow* October 1998-Sept 2000

*Director of Studies in Mathematics*, 1999-2009.

Instituto de Física, UNAM, México  
*Professor of Physics*, January 1997-October 1998.

CERN, Geneva, Switzerland  
*Paid Associate*, October 1995 to December 1996.

Institut de Physique, Neuchâtel, Switzerland  
*Chef de Travaux*, September 1991 to September 1995.

Los Alamos National Laboratory, New Mexico, USA  
*Postdoctoral Fellow*, September 1989 to August 1991

McGill University, Montréal, Canada  
*Research Associate*, September 1988 to August 1989

CERN, Geneva, Switzerland  
*Research Associate*, September 1986 to August 1988

University of Texas at Austin, USA  
*Teaching and Research Assistant* 1981-1986

Universidad del Valle de Guatemala  
*Professor of Physics* 1979-1980

Universidad de San Carlos de Guatemala  
*Teaching Assistant* 1976-1979  
*Professor of Physics and Mathematics* 1979-1980

## **Awards and Fellowships**

- *John Wheatley Prize 2021* (awarded by the American Physical Society (APS)).
- *Distinguished Visiting Research Chair 2020-2023*, Perimeter Institute, Canada.
- *Spirit of Salam Award 2019* (awarded by the Abdus Salam family).
- *Abdus Salam Medal 2018* (awarded by The World Academy of Sciences (TWAS)).
- *Salvador Allende Award 2017* (awarded by the Chile Embassy in Italy).
- *Doctorate Honoris Causa* Universidad de Chiapas (UNACH), Mexico, 2013.
- *TWAS Fellow*, October 2011.
- *Distinguished Guatemalan award*, Guatemala City Mayor 2010.
- *Doctorate Honoris Causa* Universidad del Valle de Guatemala, January 2006.
- *Royal Society Wolfson Merit Award*, 2003 – 2008, Royal Society, UK.
- *Doctorate Honoris Causa* Universidad de San Carlos de Guatemala, August 2000.
- *The ICTP 1998 Prize in High Energy Physics*, Trieste, Italy, June 1998.
- *John Simon Guggenheim Foundation Fellowship*, July 1998.

## **PhD Dissertations Supervised and current positions**

*Norma Quiroz* (UNAM): Research Scientist, Colima University, Mexico;  
*Ivonne Zavala* (Cambridge): Lecturer in Theoretical Physics, Swansea, UK.;  
*David Grellscheid* (Cambridge): Computing Science Professor, Bergen University, Norway;  
*Susha Parameswaran* (Cambridge): Lecturer in Theoretical Physics, Liverpool, UK;  
*Cristina Escoda* (Cambridge): Associate at D.E. Shaw, New York, USA;  
*Joseph Conlon* (Cambridge): Professor of Theoretical Physics, Oxford University, UK;  
*Kerim Suruliz* (Cambridge): Senior Machine Learning Researcher Abtrace, UK;  
*Shehu AbdusSalam* (Cambridge) Lecturer in Theoretical Physics, Shahid University, Iran;  
*Michele Cicoli* (Cambridge): Professor of Theoretical Physics, Bologna University, Italy;  
*Sven Krippendorf* (Cambridge): Senior Postdoctoral Fellow, LMU, Munich Germany;  
*Amin Nizami* (Cambridge): Lecturer in Theoretical Physics, Hashioka University, India.  
Currently 5 PhD students (Andreas Schachner, Veronica Pasquarella, Chris Hughes, Gonzalo Villa, Mario Ramos).

## **Post-Doctoral Fellows supervised and current positions**

*Matthias Klein* (Cambridge): Finance consultant Deutsche Bank;  
*Dumitru Ghilencea* (Cambridge): Professor National Institute of Physics, Romania;  
*Marta Gomez-Reino* (Cambridge): Science Teacher, Geneva, Switzerland;  
*María Pilar García del Moral* (Cambridge): Professor Universidad de Antofagasta, Chile;  
*Daniel Cremades* (Cambridge): Executive Director Head of Trading BBVA, London, UK;  
*Anshuman Maharana* (Cambridge): Professor of Physics, HRI, Allahabad, India;  
*Nicolás Grandi* (Cambridge): Professor of Physics, Universidad de la Plata, Argentina;  
*Michele Cicoli* (ICTP): Professor of Physics, University of Bologna, Italy;  
*Roberto Valandro* (ICTP): Professor of Physics University of Trieste, Italy;  
*Luis Aparicio* (ICTP): Researcher in Quantitative Biology, Columbia University, USA;  
*Damián Pena-Mayorga* (ICTP): Postdoc at University of Witwatersrand, South Africa;  
*Pramod Shukla* (ICTP): Visiting scientist ICTP, Italy;  
*Francesco Muia* (ICTP): Stephen Hawking Research Fellow, Cambridge University, UK.

## **Recent Research Grants**

Marie Curie FP7-234847 (String Models) PI, 2010-2012.  
PPARC/STFC Rolling Grant (2003-2008) to HEP group at DAMTP.  
RTN Network: *The Quest for Unification: Theory Confronts Experiment.*

MRTN-CT-2004-503369. Private member attached to UK node in Oxford.

RTN Network: *Superstring Theory European Network*

MRTN-CT-2004-005104. Member of Cambridge node.

SPG/PPARC Grant: String Phenomenology 2000-2002 (one post-doc in Cambridge).

DAMTP Grant associated to the Royal Society Wolfson Award 2003-2006 (one three-year post-doctoral fellowship in DAMTP.)

## **Main Achievements as ICTP Director**

### *Creation of 4 New International Research Institutes*

- ICTP-SAIFR (Brazil) <https://www.ictp-saifr.org/>
- ICTP-AP (China) <https://ictp-ap.org/>
- ICTP-EAIFR (Rwanda) <https://eaifr.ictp.it/>
- MCTP/MAIS (Mexico) <https://mctp.mx/>

### *Opening New Research Areas*

- Quantitative Life Sciences
- Renewable Energies.

### *Starting New Educational Programmes.*

- Joint ICTP/SISSA PhD Programme,
- International Master in Medical Physics (ICTP and IAEA),
- Master in High Performance Computing (ICTP and SISSA),
- Physics Without Frontiers (PWF)  
<https://www.ictp.it/physics-without-frontiers.aspx>

## **Other Relevant Information and Activities**

### *Publications (full list in a separate file):*

- More than 175 research articles.
- Over 18,000 citations (from INSPIRE) or 20,000 (from Google Scholar).
- Average over 110 citations per published article.
- Current h-index (number of articles with more than h citations): h=74.

### *Speaker and Lecturer at major international conferences and schools.*

- Strings 2007, 2010, 2015, 2021;
- SUSY 2007, 2010, 2012, 2015, 2022;
- String Phenomenology 2007-2011, 2013-2015, 2016-2021, 2022;
- PASCOS 2011, 2013, 2014;
- PLANCK 2010, 2015, 2022;

- COSMO 2012, 2018.
- Over 100 invited talks and colloquia in more than 60 countries from 2010-2019

*Organiser of high- level conferences:*

- *ICTP after 45*
- *ICTP 50th Anniversary*

*Organiser of scientific conferences/schools.*

- *Challenges and Opportunities, High Frequency Gravitational Waves*, ICTP 2019;
- *Branes, Strings and M-Theory*, Newton Institute, Cambridge (2012);
- *String Phenomenology 2012*, Cambridge 2012;
- *Graduate Summer School on String Phenomenology*, Simons Center, Stony Brook 2012;
- *SUSY 2013*, ICTP 2013;
- *String Phenomenology 2014*, ICTP 2014;
- *PASCOS 2015*, ICTP 2015.

*Member of International Advisory Committee of major international conferences*

*Strings, SUSY, PASCOS, String Phenomenology (for more than 5 years)*

*Chapters in Books:*

- *The Importance of Theory for Development* in *From Physics to Daily Life* CERN at 60 (Bressan Editor, Wiley Publisher, 2015).
- *Local String Models and Moduli Stabilisation* in *Perspectives in String Phenomenology* (Acharya, Kane, Kumar Editors, World Scientific Publish, 2015)
- *ICTP: From a Dream to a Reality* in *Memorial Volume of Abdus Salam at 90* (Brink, Duff, Phua editors, World Scientific Publisher, 2017).
- *Is String Phenomenology an Oxymoron?* in *Why Trust a Theory?* (Dardashti, Dawid, Theabault, Editors, Cambridge University Press, 2019).

*Popular Science Articles:*

- Physics World: F. Quevedo, *The String-Theory Landscape*, Phys. World **16N11** (2003) 21.
- Scientific American: C.P. Burgess and F. Quevedo, *The great cosmic roller-coaster ride*, Sci. Am.**297N5** (2007) 28.

*Member of International Committees*

- Founder and international coordinator of the *International Network of Guatemalan Scientists* (2005-2018).
- Member of the Board for African Institute of Mathematical Sciences (AIMS) (2010-2015).
- Co-Chair of *Latin-American Strategic Forum for Research Infrastructures* (LASF4RI). <https://lasf4ri.org/>
- Member of International Advisory Board of *African Strategy for Fundamental and Applied Physics* (ASFAP). <https://africanphysicsstrategy.org/>
- Founding member and deputy Chair of Association of Latin American High Energy Physicists.
- Member of Selection Panel of L'Oreal *For Women in Science* (FWIS) Awards on Physics, Mathematics and Computing Sciences. <https://www.forwomeninscience.com/>