Alba Cervera-Lierta | Full CV

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Education

Doctor of Philosophy (PhD) in Physics

Universitat de Barcelona

Supervisor: Dr. José Ignacio Latorre

2015 - 2019

Title: Maximal Entanglement: Applications to Quantum Computation and Particle Physics. Master in Astrophysics, Particle Physics and Cosmology

Universitat de Barcelona

Specialized in Particle Physics and Gravitation. Thesis title: Non-unitary neutrino oscillations.

2014 - 2015

Bachelor in Physics

Universitat de Barcelona

Specialized in Fundamental Physics

2009 - 2014

Thesis title: Scaling of entanglement support for iTEBD algorithm.

Positions

Research

Senior Researcher **Barcelona Supercomputing Center** 2021 - Present Quantic group (CASE department), Ramón y Cajal fellow since 2024.

Postdoctoral Fellow University of Toronto

Alán Aspuru-Guzik group

2019 - 2021

Barcelona Supercomputing Center Technical Researcher

Quantic group (CASE department)

2017 - 2019

Specialized Technician Universitat de Barcelona

Project: "Entanglement, tensor networks and cold gases"

2014

Coordinator

EuroQCS-Spain project Barcelona Supercomputing Center

Quantum computing technology responsible (budget: 12,5 M €)

2022 - Present

Quantum Spain project Barcelona Supercomputing Center Project Principal Investigator (budget: 22M €)

2021 - Present

Center of Quantum Technologies

National University of Singapore

May 2017

Instituto de Física Teórica

Prof. Kwek Leong Chuan group.

CSIC

Dr. César Gómez's group.

Feb 2017

Grupo de investigación en Información y Computación Cuántica

Universidad Politécnica de Madrid Sep 2016

Dr. Vicente Martín group

University of Oxford

Rudolph Pierls Institute for Theoretical Physics

Jan - May 2016

Dr. Juan Rojo's group.

Funded projects

European

EuroQHPC-Integration project

EuroHPC - Joint Undertaking

Budget: 745.200 €(WP), Role: EuroQCS-Spain consortia coordinator.

2025 - 2029

National

Logic Artificial Intelligence for Photonics (LOGITONICS)

Agencia Estatal de Investigación (AEI)

Budget: 75k €, Role: principal investigator.

Budget: 22M €, Role: principal investigator

2024 – 2028

Ramón y Cajal fellowship

Agencia Estatal de Investigación (AEI)

Budget: $50k \in$, Tenure track position.

2024 – 2029

Quantum Spain project Secretary of State of Digitalization and AI (SEDIA)

2021 - 2025

https://quantumspain-project.es

Industry.....

Quantum Experience for Academic Research Program

IBM

Funding: Exclusive access to pulse-level control of IBM quantum devices, Role: co-PI.

2021 - 2022

Project: High-dimensional quantum experiments superconducting circuits.

Awards and Honors

DTIC - Ingenierías UPF research award for women researchers

Universitat Pompeu Fabra

May 2024

PhD Excellent Cum Laude

Universitat de Barcelona

Jun 2019

Teach Me QISKit Award

IBM

Jun 2018

Publications

Link to Google Scholar and OrcID.

18. Quantum Circuits for High-Dimensional Absolutely Maximally Entangled States

Preprint

B. Casas, G. Rajchel-Mieldzioć, S. Ahmad Rather, M. Płodzień, W. Bruzda,

2025

2023

2022

A. Cervera-Lierta, K. Życzkowski, arXiv:2504.05394 [quant-ph].

17. Multidimensional Fourier series with quantum circuits

Phys. Rev. A

B. Casas, <u>A. Cervera-Lierta</u>

Physical Review A 107, 062612 (2023).

16. Design of quantum optical experiments with Logic Artificial Intelligence

Quantum

A. Cervera-Lierta, M. Krenn, A. Aspuru-Guzik

Quantum 6, 836 (2022).

15. On scientific understanding with artificial intelligence

Nat. Rev. Phys.

M. Krenn, R. Pollice, S. Y. Guo, et. al.

2022

Nature Review Physics (2022).

14. Toward Reliability in the NISQ Era: Robust Interval Guarantee for Quantum Measurements on Approximate States

Phys. Rev. Research

2022

M. Weber, A. Anand, <u>A. Cervera-Lierta</u>, J. S. Kottmann, T. H. Kyaw, et. al.

Physical Review Research 4, 033217 (2022).

13. Programming Physical Quantum Systems with Pulse-Level Control

Front. Phys.

K. N. Smith, G. S. Ravi, T. Alexander, et. al.

2022

Frontiers in Physics, 672 (2022).

12. Learning Interpretable Representations of Entanglement in Nat. Mach. Intell. Quantum Optics Experiments using Deep Generative Models 2021 D. Flam-Shepherd, T. Wu, X. Gu, A. Cervera-Lierta, M. Krenn, A. Aspuru-Guzik Nature Machine Intelligence 4 (6), 544-554 (2022). 11. Experimental high-dimensional Greenberger-Horne-Zeilinger entanglement Phys. Rev. Appl. with superconducting transmon gutrits 2022 A. Cervera-Lierta, M. Krenn, A. Aspuru-Guzik, A. Galda Phyical Review Applied 17, 024062 (2022). 10. Noisy intermediate-scale quantum algorithms Rev. Mod. Phys. K. Bharti, A. Cervera-Lierta, T. H. Kyaw, T. Haug, et. al. 2022 Review of Modern Physics 94, 015004 (2022). 9. The Meta-Variational Quantum Eigensolver (Meta-VQE): **PRX Quantum** Learning energy profiles of parameterized Hamiltonians for quantum simulation 2021 A. Cervera-Lierta, J. S. Kottmann and A. Aspuru-Guzik PRX Quantum 2, 020329 (2021). Quantum Sci. Technol. 8. Tequila: A platform for rapid development of quantum algorithms J. S. Kottmann, S. Alperin-Lea, T. Tamayo-Mendoza, A. Cervera-Lierta et. al. 2021 Quantum Science and Technology 6 024009 (2021). 7. Data Re-uploading for a Universal Quantum Classifier Quantum A. Pérez-Salinas, A. Cervera-Lierta, E. Gil-Fuster, J. I. Latorre 2020 Quantum 4, 226 (2020). **PhD Thesis** 6. Maximal Entanglement: Applications in Quantum Information and Particle Physics A. Cervera-Lierta 2019 arXiv:1906.12099 [quant-ph]. 5. Quantum Circuits for Maximally Entangled States Phys. Rev. A A. Cervera-Lierta, J. I. Latorre, D. Goyeneche 2019 Physical Review A 100, 022342 (2019). 4. Exact Ising Simulation on a Quantum Computer Quantum A. Cervera-Lierta 2018 Quantum 2, 114 (2018). 3. Multipartite Entanglement in Spin Chains and the Hyperdeterminant J. Phys. A Math. Theor. A. Cervera-Lierta, A. Gasull, J. I. Latorre and G. Sierra. 2018 Journal of Physics A: Mathematical and Theoretical 51, 505301 (2018). 2. Maximal Entanglement in High Energy Physics SciPost Phys. A. Cervera-Lierta, J. I. Latorre, J. Rojo and L. Rottoli 2017 SciPost Physics 3, 036 (2017). 1. Operational Approach to Bell Inequalities: Application to gutrits Phys. Rev. A D. Alsina, A. Cervera, D. Goyeneche, J. I. Latorre and K. Zyczkowski 2016 Physical Review A 94, 032102 (2016). Reports and white papers..... When matter and information merge into "Quantum" Commun. Phys. R. Aguado, A. Cervera-Lierta, A. Correia, et. al., Communications Physics 6(1) 266 (2023). Workflows Community Summit 2022: A Roadmap Revolution **Technical Report** R. Ferreira da Silva, R. M. Badia, V. Bala, et. al. 2023 ORNL/TM-2023/2885, arXiv:2304.00019 [cs.DC]. Books, chapters and notes..... Machine learning in quantum sciences **Cambridge University Press** A. Dawid, J. Arnold, B. Requena, et. al. 2025 Cambridge University Press 2025, arXiv:2204.04198 [quant-ph]. Simulation of the 1d XY model on a quantum computer **Preprint**

M. Farreras, A. Cervera-Lierta

2024

arXiv:2410.21143 [quant-ph]. Software development Libraries: Quantum computing open-source library "Tequila" Python Project collaborator, https://github.com/tequilahub/ 2021 Codes and demos: Logic Al algorithm "Klaus" Mathematica Creator and developer, https://github.com/AlbaCL/Klaus 2022 Meta Variational Quantum Eigensolver Python 2021 Co-creator and developer., https://github.com/aspuru-guzik-group/Meta-VQE Talks and seminars Some of my talks' videos are listed in my Youtube Channel playlists. Virtual talks due to COVID-19 pandemic. Kevnote Llicó Innaugural **UPF** "Tecnologies quàntiques: passat, present i futur d'una (r)evolució tecnològica" Sep 30 2024 Enginyeries Universitat Pompeu Fabra. **UPC** 100tífiques "Tecnologies quàntiques: passat, present i futur d'una (r)evolució tecnològica" Feb 1 2024 Fundació Catalana per a la Recerca i la Innovació. The guest for the quantum computer 10^{th} BSC Doctoral Symposium Barcelona, Spain May 9, 2023 **CARLA 2022** The Noisy Intermediate-Scale Quantum era Porto Alegre, Brasil Sep 28-30, 2022 Margarita Salas Honoris Causa PhD act Universidad de Extremadura "De las computadoras a los ordenadores" Feb 2 2019 Colloquium Computación cuántica: pasado, presente y futuro Universidad de Alicante de una revolución tecnológica Sep 28, 2023 Opening academic year Aula de Ciencia y Tecnología, Universidad de Alicante, Spain. Tecnologies quàntiques: present i futur **ICCUB Colloquia** Universitat de Barcelona, Spain. Feb 16, 2022 Quantum computers: the new supercomputer partition Barcelona, Spain. HiPEAC 2025, Classical HPC & QC: the way to foster the integration workshop Jan 20, 2025 Atlanta, USA

Quantum computers: the new supercomputer partition

SC24 Nov 20, 2024

Design of quantum optical experiments with logic artificial intelligence ICFO, Barcelona

SCOP24 Oct 3, 2024

Building the Spanish Quantum Computer Quantera

Quantum Technologies in Europe, Madrid, Spain Nov 23, 2023

Quantum-HPC integration: challenges and opportunities Hannover, Germany **EQTC 2023** Oct 19, 2023

CSIC. Madrid **Variational Quantum Algorithms** QTYR 2023 Jul 04, 2023 Quantum Spain in the NISQ era **BSC-CNS** QBN Meeting on Quantum Computing and Applications Jun 15, 2023 High-dimensional quantum computation: opportunities and challenges **ICFO** Symposium on Open-Source Tools for Quantum Computing & Simulation Mar 31, 2023 High-dimensional quantum computation QT4HPC Nov 2, 2022 CERN Quantum algorithms in near term devices **New Trends in Computational Chemistry** IQTC, University of Barcelona (Spain). Sep 9, 2022 **Quantum Spain** Quantum 2022 Barcelona (Spain). Jun 22, 2022 Jornada cuántica Quantum Spain: un impulso para el ecosistema de computación cuántica NASERTIC, Pamplona (Spain). May 4, 2022 Quantum Spain: un impulso para el ecosistema de computación cuántica Jornada Eco. Cuántico SCAYLE, León (Spain). Mar 1, 2022 Quantum 2021 Near term quantum computation: opportunities and challenges Nov 24, 2021 Bilbao (Spain). Noisy Intermediate-Scale Quantum era **JURES 2021** Sep 17, 2021 Virtual (*). **Noisy Intermediate-Scale Quantum algorithms** CERN Perspectives on Quantum Sensing and Computation for Particle Physics. Virtual (*). Jul 15, 2021 The Meta-Variational Quantum Eigensolver Machine Learning for Quantum X Virtual (*). Jul 6, 2021 The Meta-Variational Quantum Eigensolver **QWorld Quantum Science Days** Jun 1, 2021 Virtual (*). Chronicles of Entangland, the foundation of the SC town Qiskit Hackathon Europe Virtual (*). May 26, 2021 **Experimental high-dimensional GHZ entanglement with Pulse-level Quantum Control Workshop** superconducting transmon qutrits May 18, 2021 Chicago. Virtual (*). Maximal Entanglement in High Energy Physics **APS April Meeting** Topical Group on Hadronic Physics. Virtual (*). Apr 15, 2021 **Noisy Intermediate-Scale Quantum algorithms** Universidad Iberoamericana Virtual (*). Apr 13, 2021 Please, feed the quantum troll! Q-Hack 2021 Feb 19, 2021 Virtual (*). Testing and designing quantum algorithms for the NISQ era INT-20-3 Quantum Computing and Simulation on Near-Term Devices. Virtual (*). Nov 21, 2020 Maximal Entanglement in High Energy Physics, Quantum Entanglement **CFNS Stony Brook** at Collider Energies Sep 11, 2018 Stony Brook (United States). **Exact simulation of a Quantum Phase Transition Quantum Phase Transitions** on a quantum computer Apr 05, 2018

Barcelona (Spain).

Madrid (Spain).

Emergence of Gauge Symmetry

from a Maximal Entanglement Principle

5/11

Sep 21, 2016

Universidad Complutense de Madrid

Contributed The Meta-Variational Quantum Eigensolver **APS March Meeting 2021** Mar 18. 2021 Virtual (*). Data re-uploading for a universal quantum classifier Q-Turn 2020 Nov 24, 2020 Virtual (*). Data re-uploading for a universal quantum classifier **QTML 2020** Quantum Techniques Machine Learning. Virtual (*). Nov 12, 2020 **Maximal Entanglement in Quantum Computation BSC Severo Ochoa Doctoral Symposium** Barcelona (Spain). May 07, 2019 Seminars Computació quàntica: reptes i oportunitats **UPC** Mar 11. 2025 The Noisy Intermediate-Scale Quantum Computation Universitat de Girona **IQCC** Jan 21, 2025 Computación cuántica: pasado, presente y futuro de una revolución tecnológica Telefónica Madrid, Spain Feb 21, 2024 Quantum-HPC integration: challenges and opportunities LG Toronto Oct 26, 2023 Toronto, Canada Quantum Spain: creating a public quantum-HPC infrastructure **Quantum Cafe** Sep 21, 2023 European Comission (Virtual). A roadmap to quantum computing integration into HPC infrastructures **RISC2 Seminar Series** Mar 15, 2023 **Noisy Intermediate Scale Quantum Computation** Universidad de Zaragoza Dept. Condensed Matter Physics. Jun 3. 2022 **Noisy Intermediate Scale Quantum Computation** Universidad Nacional de Colombia Virtual. Apr 21, 2022 Design of quantum optical experiments with logic artificial intelligence **MPQ** Quantum Optics group seminar. Oct 29, 2021 High-dimensional quantum computing experiments CQT Prof. Manas Mukherjee group meeting (Singapore, Virtual *) Aug 03, 2021 Maximal Entanglement in a Quantum Computer **Fermilab** Fermilab theory seminars. Virtual (*) Jun 15, 2021 The Meta-Variational Quantum Eigensolver Oxford Oxford Quantum Information Society. Virtual (*) May 20, 2021 **Scientific Machine Learning Webinars** The Meta-Variational Quantum Eigensolver Virtual. May 6, 2021 **Noisy Intermediate-Scale Quantum algorithms Alexandria University** Hypatia Series. Virtual(*). Apr 8, 2021 Maximal Entanglement in High Energy Physics **University of Maryland** *Nuclear Theory series. Virtual(*).* Apr 2, 2021 Noisy Intermediate-Scale Quantum algorithms Académie Royale de Belgique Belgian Quantum Physics Initiative. Virtual(*). Mar 4, 2021 Designing VQA with Tequila Quantum Conversations by the Bay Nov 28, 2020 Virtual. Maximal Entanglement. Applications to Quantum Computation and Particle Physics **UofT**

Matterlab group meeting. Toronto (Canada).

Mar 1, 2029

Panels and round tables

As a moderator....

Round table Industrial forum Quantum Matter 2023

Participants: Marta Estarellas, Richard Kienhoefer, Pascale Senellart,

May 24, 2023

Fernando de la Iglesia and Bilal Kalyoncu

Round table Industrial forum Quantum Matter 2022

Participants: Marc Almendros. Niels Bultink. Gianni del Bimbo. Daniel Szombati.

Jun 22, 2022

Yonatan Cohen, Josep M. Martorell, Heike Riel and Carmen Palacios.

As a participant

Quantum computing + Communications: meet at the halfway.

PuzzleX Oct 7, 2022

Oct 7, 2022

Pannel with Hugues de Riedmatten. Modarated by Carmen G. Almudéver.

Catalan Nanotech Ecosystem Session ACM Nanocomm

Modarated by Stephan Roche.

ACM Nanocomm

Women in ACM/IEEE WICE Luncheon

Modarated by Núria Castell. Oct 6, 2022

Quantum Computing: Changing the Course of Industry Barcelona New Economy Week Round table with Carlos Kuchkovsky, Marta Pita, and Enrique Sanchez.

Oct 3, 2022

Modarated by Jaime Gómez.

Quantum Technologies Barcelona Deep Tech Summit

Panel with Silvia Carrasco, Carlos Abellán and Enrique Mora.

Sep 22, 2022

Moderated by Rubén Criado

The Impact of Advanced Computing in Al Science Business

Round table with Jean Pierre Panziera and Nicolas Moes.

Sep 19 2022

Moderated by David Pringle

The Future of HPC **ACM Europe Summer School**

Panel with Paul Messina, Per Stenström, Uri Weiser and Min Li.

Sep 2 2022

Moderated by Josephine Wood

DATE 2022 Young People Program Career Panel

Mar 21 2022 **IEEE Services**

Quantum Software Ecosystem

Pannel discussion with industry and academic members

Sep 9 2021

Committees

National

European

Real Sociedad Española de Física

Grupo Especializado en Información y Tecnologías Cuánticas (GEITC).

2023 - Present

2023 - Present

Quantum Computing working group

European Quantum Flagship and EuroHPC

Quantum Coordination Board

European Quantum Flagship and EuroHPC

Quantum Standarization working group Quantum Coordination Board

2023 - Present

Quantum - HPC Working group **European Quantum Flagship**

2022 - Present

Scientific Advisory Board

Finish Quantum Initiative CSC, Aalto University, VTT

2023 - Present

Consell de les Tecnologies Quàntiques de Catalunya

Board member

Generalitat de Catalunya

U. Industrial de Santander

Universitat de les Illes Balears

Universidad Complutense de Madrid

Universitat Autònoma de Barcelona

Universidade do Minho

2022 - 2024

Dec 9, 2024

Feb 29, 2024

Sep 7, 2023

Jan 17, 2023

Jul 22, 2022

Benasque, Spain.

Apr 14-27, 2024

May 22-25, 2023

ACM Europe, Barcelona

ACM Europe, Barcelona

Madrid

Virtual

2020 - 2021

July 7, 2023

July 7, 2023

Apr 11-21, 2023

Scientific Committee

Quantum Techniques in Machine Learning 2023, CERN.

ICE8 2023, Santiago de Compostela.

Quantum Matter 2023, Madrid.

Quantum Matter 2022, Barcelona.

Quantum Techniques in Machine Learning 2020, Virtual.

PhD Thesis committees.....

Memory Management in Software Quantum Computing Simulators

Supervisors: C. Jaime Barrios Hernández, L. Angelo Steffenel, J. F. Couturier

Quantum many-body ground states via digital quantum simulation

Bruno Rodrigues Pacheco e Murta

Supervisors: Joaquín Fernández-Rossier, Nuno Miguel Machado Reis Peres

Reservoir Computing in Quantum Systems

Rodrigo Martínez Peña

Supervisor: Roberta Zambrini, Miguel Cornelles Soriano

Fault tolerant quantum algorithms

Pablo Moreno-Casares

Supervisor: Miguel Ángel Martín-Delgado

Quantum information in lattices

Bruna Gabrielly De Moraes Araújo

Supervisors: Antonio Acín dal Maschio, Daniel Cavalcanti Santos and Stephan Jean Louis Roche

Conference and seminars organization

Spring School on Near-Term Quantum Computing

Co-organizer. Centro de Ciencias de Benasque Pedro Pascual.

Quantum Matter International Conference

Industrial forum co-organizer.

Quantum Research Seminars Toronto.

Co-organizer and chair. Youtube: Quantum Research Seminars Toronto.

Teaching

Lectures and courses.....

A gentle introduction to quantum computing

ACM Europe Summer School on HPC

The guest for the quantum computer

A gentle introduction to quantum computing

ACM Europe Summer School on HPC

Quantum Algorithms I and II

Spring School on Superconducting Qubit Technology

The Noisy Intermediate Scale Quantum Computation

Escenarios Científicos

The Noisy Intermediate Scale Quantum Computation

Master Modelling for Science and Engineering Research and Innovation

Variational Quantum Computing IV Summer School on Quantum Computing Universidad Complutense de Madrid

Mar 14. 2023

Universitat Autònoma de Barcelona

Oct 4. 2022

Universidad Internacional Menéndez-Pelayo

Centro de Ciencias de Benasque Pedro Pascual

Sep 5-9, 2022

Near-term quantum computing

Universidad Castilla La-Mancha

Clase introducción al curso en Quantum Computing software.

Jun 20, 2022

NISQ computing

Institut de Ciències Fotòniques (ICFO)

Theory lectures

Mar 15-24, 2022

Variational Quantum Computing

Universidad Internacional Menéndez-Pelayo

III Summer School on Quantum and Q-Inspired Computing

Sep 7, 2021

Noisy Intermediate-Scale Quantum Algorithms

Warsaw, Poland

Summer School "Machine Learning in Quantum Physics and Chemistry"

Aug 25, 2021

Quantum Computing in the NISQ era

UCL

Talk in Quantum Technologies Winter School

Dec 10, 2020

Bojos per la Supercomputació

BSC

Introductory course in quantum computation for high-school students

ESADE Business School

26 Apr - 04 May, 2019

The Quantum Revolution Seminar at Master in Finance

Jun 07, 2018

Teaching positions

Universitat Autònoma de Barcelona

Calculus I-II, Theoretical Mechanics, Physics I - II.

2017 - 2019

Teacher Assistant

Teacher Assistant

Universitat de Barcelona

Modern Physics Laboratory, Computational Physics.

2016 - 2017

Students

PhD.....

Universitat Pompeu Fabra

Co-supervised with Miguel Ángel González Ballester

Nov 2024 - Present

Berta Casas Font

Francesco Aldo Venturelli

Sep 2022 - Present

Co-supervised with Artur Garcia

Juan Francisco Martín Bravo

Master

University of Barcelona

University of Barcelona

Quantum benchmarking: entanglement measures in a quantum computer

Master Quantum Science and Technology.

Feb 2023 - Jul 2023

Berta Casas Font Quantum function fitting and classification beyond the single-qubit model

Master Quantum Science and Technology.

University of Barcelona Feb 2022 - Jul 2022

Internships

Francesc Sabater Garcia

University of Barcelona

Adding Qibo as a Supported Framework for Mitig

Exact XY model simulation with a quantum computer

Master Quantum Science and Technology.

Sep 2023 - Feb 2024

Undergraduate (degree).....

Marc Farreras

University of Barcelona

Feb 2023 - Jul 2023

Physics Degree

Alex Alemany The HHL algorithm Universitat Politècnica de Catalunya

Feb 2023 - Jul 2023

Computer Science Degree. Co-supervised with Jordi Delgado.

Júlia Barberà Rodríguez

University of Barcelona

Application of Grover's quantum algorithm for string matching

Physics Degree

Feb 2022 - Jul 2022

Elies M. Gil Fuster

University of Barcelona

Variational Quantum Classifier

Physics Degree. Co-supervised with J. I. Latorre.

Feb 2019 - Jul 2019

Outreach

Some of my talks and events videos are listed in my Youtube Channel playlists.

Supercomputación y computación cuántica:

el camino hacia la integracción

Revista Española de Física 38 (2), 37-41

L'ordinador quàntic: un camí de ciència, tecnologia i sobirania

Revista IDEES núm. 61 "Quantum: una revolució que canviarà el món?".

Translated to Spanish, English and Catalan.

Computación Cuántica en la Nube

Revista Española de Física 34 (1), 25-29.

How I became a quantum computation scientist

Medium article for @qiskit

Contributing Writer Medium articles, Qquantum_wa.

Commissary

City and Science Biennal

With Toni Pou and Teresa Badia.

Panels and round tables

Talent Arena MWC Conversation with Antonio Acín

Jornades REACT

Presenter and moderator of the act.

Chaired by HRH King and Queen of Spain, Spanish Minister of Science and Universities and Barcelona Mayor.

Round table with Marta Villegas, Lucía Flecha and Susana Fernández.

Dia Internacional Dona i Nena a la ciència

Event with Barcelona city Mayor and government. Women in Physics path

Organized by the Equality commission from the Physics Faculty

Keynote speech..... Bojos de la Ciència

Speech about Bojos per la Supercomputació program

Bojos de la Ciència

Speech at Master grants act

Talks and courses

Mobile World Congress Quantum computers: the new supercomputer partition

Mobile World Congress

Computació quàntica: passat, present i futur d'una (r)evolució tecnològica

Revista Española de Física

Mar 2024

Revista IDEES

Feb 2024

Revista Española de Física

Mar 2020

Jul 2018

Quantum World Association

2018 - 2019

Ajuntament de Barcelona 2025

Barcelona

Mar 5, 2025

Barcelona

Barcelona

MINECO

Mar 8, 2022

May 5, 2022

Round table with Teresa Riesgo Alcaide, Laia Bonet, Xavier Azemar Mallard Mateo Valero Cortes. Mar 29, 2023 Moderated by Elena Arrieta Palacio.

Premios Nacionales de Investigación

Mujeres y Digitalización: Por una España Igualitaria

Moderated by the Secretary of State of Digitalization and Al Carme Artigas.

Ajuntament de Barcelona

Feb 11, 2022

Universitat de Barcelona

Mar 3 2021

Fundació Catalunya-La Pedrera

Dec 10 2018

Fundació Catalunya-La Pedrera

Oct 16 2018

Beat Barcelona Mar 6. 2025

BSC Booth.

Mar 6, 2025

Computación cuántica: pasado, presente y futuro de una (r)evolución tecnológica Burgos, Spain. Feb 27, 2025 Casa del Cordón Computació quàntica: passat, present i futur d'una (r)evolució tecnològica Universitat de Girona Cicle Últimes fronteres: la ciència del segle XXI May 4, 2023 Computación cuántica: presente y futuro de una revolución tecn. Uni. Las Palmas de Gran Canaria Apr 18, 2023 Jornada tecnología. Computació Quàntica i els reptes de Talent TIC en els propers anys Lul · liana Nov 24, 2022 Col·legi d'Informàtica de Catalunya Tecnologies quàntiques: present i futur d'una (r)evolució tecnológica **Jornades Feministes** Nov 20, 2022 Casal de Joves Sant Just Desvern A-12 Estudis i Recerca Universitaria Present i futur de les tecnologies quàntiques Oct 20-26, 2022 Two-day introductory course for senior citizens. Computació quàntica: present i futur d'una revolució tecnològica Open Day TIC Universitat Politècnica de Catalunya. May 12, 2022 Tecnologías Cuánticas: presente y futuro Pint of Science May 11, 2022 Barcelona. Quantum Spain: un impulso para el ecosistema de computación cuántica **CTA** Seminar for the Corporación Tecnológica de Andalucía. Virtual. Apr 26, 2022 Supercomputación y Quantum Spain **PTE Disruptive** Seminar for the Plataforma Tecnologíca Española y de Tecnologías Disruptivas. Virtual. Mar 22, 2022 Tecnologías cuánticas: presente y futuro Col·legi de Biòlegs de Catalunya Mar 16, 2022 Virtual. Computación Cuántica Live Talks Cosmocaixa Feb 16, 2022 Cosmocaixa (Barcelona) Quantum Spain Meet-up Quantum Barcelona and Madrid meet-up. Dec 13, 2021/Feb 9, 2022 Quantum Calling K-W Quantum Enthusiasts Meetup Waterloo Quantum Meet-up Jun 18, 2020 CCCB Quantica Quantum computing talk and participation in the exhibition (video) Apr 10-Sep 26, 2019 De las computadoras a los ordenadores Margarita Salas Honoris Causa PhD event Badajoz, Spain Feb 26, 2019 El País con tu Futuro Technology to manipulate Nature Dec 18, 2018 Madrid, Spain Quantum Computation: a new paradigm TEDx talk Sant Feliu de Llobregat, Barcelona, Spain Sep 15, 2018 **Quantum Computation** Cosmocaixa (Science Museum) Researcher's Night 2018 Sep 28, 2018 Mentorship programs..... **Quantum Open Source Foundation mentorship program QOSF** Mentor Sep 2020 - Jan 2021

Girls E-Mentorship program

Mentor

11/11

GEM

Sep 2020 - June 2021