Alba Cervera-Lierta | Full CV

☑ alba.cervera@bsc.es • ☑ github.com/AlbaCL • Updated: May 5, 2025

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Panels and round tables	

Education

Doctor of Philosophy (PhD) in Physics

Universitat de Barcelona

Supervisor: Dr. José Ignacio Latorre

2015 - 2019

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

Senior Researcher

Universitat de Barcelona

Specialized in Fundamental Physics

2009 - 2014

Thesis title: Scaling of entanglement support for iTEBD algorithm.

Positions

Research

Quantic group (CASE department), Ramón y Cajal fellow since 2024.

2021 - Present

Postdoctoral Fellow

Title: Maximal Entanglement: Applications to Quantum Computation and Particle Physics.

University of Toronto

Alán Aspuru-Guzik group

Technical Researcher

Specialized Technician

2019 – 2021

Barcelona Supercomputing Center

Quantic group (CASE department)

Barcelona Supercomputing Center 2017 - 2019

Quantile group (C/13L departmen

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

Visitor

Center of Quantum Technologies

National University of Singapore

May 2017

Instituto de Física Teórica

CSIC

Dr. César Gómez's group.

Prof. Kwek Leong Chuan group.

Feb 2017

Sep 2016

Grupo de investigación en Información y Computación Cuántica

Universidad Politécnica de Madrid

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.

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)

Budget: 22M €, Role: principal investigator

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.

20. Distributed Quantum Circuit Cutting for Hybrid Quantum-Classical HPC

Preprint

M. Tejedor, B. Casas, F. Conejero, <u>A. Cervera-Lierta</u>, R. Badia arXiv:2505.01184v1 [cs.DC].

19. Universality of entanglement in gluon dynamics

Preprint

C. Núñez, <u>A. Cervera-Lierta</u>, J. I. Latorre

2025

2025

arXiv:2504.15353v1 [hep-th].

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

Preprint

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

2025

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

2022

2023

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 Phys. Rev. Research for Quantum Measurements on Approximate States 2022 M. Weber, A. Anand, A. Cervera-Lierta, 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). 8. Tequila: A platform for rapid development of quantum algorithms Quantum Sci. Technol. 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). 6. Maximal Entanglement: Applications in Quantum Information and Particle Physics PhD Thesis 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). 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** 2024 M. Farreras, A. Cervera-Lierta arXiv:2410.21143 [quant-ph]. Software development Libraries: Distributed quantum circuit cutting library "Qdislib" **Python** Project collaborator, https://qdislib.readthedocs.io/ 2025 Quantum computing open-source library "Tequila" Python Project collaborator, https://github.com/tequilahub/ 2021 Codes and demos: Mathematica Logic Al algorithm "Klaus" Creator and developer, https://github.com/AlbaCL/Klaus 2022 Meta Variational Quantum Eigensolver Python Co-creator and developer., https://github.com/aspuru-guzik-group/Meta-VQE 2021 Talks and seminars Some of my talks' videos are listed in my Youtube Channel playlists. Virtual talks due to COVID-19 pandemic. Keynote 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. 10^{th} BSC Doctoral Symposium The quest for the quantum computer Barcelona, Spain May 9, 2023 The Noisy Intermediate-Scale Quantum era **CARLA 2022** 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 Invited Quantum computers: the new supercomputer partition Barcelona, Spain. HiPEAC 2025, Classical HPC & QC: the way to foster the integration workshop Jan 20, 2025 Quantum computers: the new supercomputer partition Atlanta, USA 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 Oct 19, 2023 **EQTC 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 **CERN** Nov 2, 2022 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 Quantum Spain: un impulso para el ecosistema de computación cuántica Jornada 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 Near term quantum computation: opportunities and challenges Quantum 2021 Bilbao (Spain). Nov 24, 2021 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** Virtual (*). Jun 1, 2021 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 Virtual (*). Feb 19, 2021 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 on a quantum computer

Barcelona (Spain).

Emergence of Gauge Symmetry from a Maximal Entanglement Principle

Madrid (Spain).

Universidad Complutense de Madrid Sep 21, 2016

Contributed

The Meta-Variational Quantum Eigensolver

Virtual (*).

Data re-uploading for a universal quantum classifier Virtual (*).

Data re-uploading for a universal quantum classifier Quantum Techniques Machine Learning. Virtual (*).

Maximal Entanglement in Quantum Computation Barcelona (Spain).

APS March Meeting 2021 Mar 18, 2021

Quantum Phase Transitions

Nov 24, 2020 **QTML 2020**

Q-Turn 2020

Apr 05, 2018

Nov 12, 2020

BSC Severo Ochoa Doctoral Symposium

May 07, 2019

Feb 21, 2024

LG Toronto

Sep 21, 2023

Seminars

Computació quàntica: reptes i oportunitats

FIB

UPC Mar 11, 2025

The Noisy Intermediate-Scale Quantum Computation **IQCC**

Computación cuántica: pasado, presente y futuro de una revolución tecnológica

Jan 21, 2025 Telefónica

Universitat de Girona

Madrid, Spain Quantum-HPC integration: challenges and opportunities

Toronto. Canada

Oct 26, 2023 Quantum Spain: creating a public quantum-HPC infrastructure **Quantum Cafe**

European Comission (Virtual).

A roadmap to quantum computing integration into HPC infrastructures

RISC2 Seminar Series Mar 15, 2023

Noisy Intermediate Scale Quantum Computation Dept. Condensed Matter Physics.

Noisy Intermediate Scale Quantum Computation

Universidad de Zaragoza Jun 3, 2022

Universidad Nacional de Colombia

Virtual. Design of quantum optical experiments with logic artificial intelligence

Quantum Optics group seminar.

Apr 21, 2022 **MPQ**

High-dimensional quantum computing experiments

Prof. Manas Mukherjee group meeting (Singapore, Virtual *)

Maximal Entanglement in a Quantum Computer Fermilab theory seminars. Virtual (*)

The Meta-Variational Quantum Eigensolver Oxford Quantum Information Society. Virtual (*)

The Meta-Variational Quantum Eigensolver Virtual.

Noisy Intermediate-Scale Quantum algorithms Hypatia Series. Virtual(*).

Maximal Entanglement in High Energy Physics *Nuclear Theory series. Virtual(*).*

CQT Aug 03, 2021

Oct 29, 2021

Fermilab

Jun 15, 2021 Oxford

May 20, 2021

Scientific Machine Learning Webinars

May 6, 2021

Alexandria University Apr 8, 2021

University of Maryland

Apr 2, 2021

Noisy Intermediate-Scale Quantum algorithms

Belgian Quantum Physics Initiative. Virtual(*).

Académie Royale de Belgique Mar 4, 2021

Designing VQA with Tequila

Quantum Conversations by the Bay

Virtual.

Nov 28, 2020

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

Pannel with Hugues de Riedmatten.

Modarated by Carmen G. Almudéver.

ACM Nanocomm

Modarated by Stephan Roche.

Oct 7, 2022

Women in ACM/IEEE WICE Luncheon

Catalan Nanotech Ecosystem Session

Modarated by Núria Castell.

ACM Nanocomm Oct 6, 2022

Quantum Computing: Changing the Course of Industry

Barcelona New Economy Week

Round table with Carlos Kuchkovsky, Marta Pita, and Enrique Sanchez.

Modarated by Jaime Gómez.

Oct 3, 2022

Quantum Technologies

Panel with Silvia Carrasco, Carlos Abellán and Enrique Mora.

Barcelona Deep Tech Summit Sep 22, 2022

Moderated by Rubén Criado

The Impact of Advanced Computing in Al

Round table with Jean Pierre Panziera and Nicolas Moes.

Moderated by David Pringle

The Future of HPC

Science Business Sep 19 2022

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

ACM Europe Summer School Sep 2 2022

Moderated by Josephine Wood

Young People Program Career Panel

DATE 2022

Mar 21 2022

Quantum Software Ecosystem

IEEE Services

Pannel discussion with industry and academic members

Sep 9 2021

Committees

Vice-president

National

Real Sociedad Española de Física

Grupo Especializado en Información y Tecnologías Cuánticas (GEITC).

2023 - Present

Quantum Computing working group

Quantum Coordination Board

European Quantum Flagship and EuroHPC

2023 - Present

Quantum Standarization working group

Mantum Standarization working grou

Quantum Coordination Board

Quantum - HPC Working group

European Quantum Flagship and EuroHPC

2023 - Present

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

Universidade do Minho

2022 - 2024

Dec 9, 2024

Feb 29, 2024

Sep 7, 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

Gilberto Díaz

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

Universitat Autònoma de Barcelona

Jul 22, 2022

Jan 17, 2023

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.

Benasque, Spain. *Apr 14-27, 2024*

Madrid May 22-25, 2023

Quantum Research Seminars Toronto.

Virtual

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

2020 - 2021

Teaching

Lectures and courses.....

A gentle introduction to quantum computing

ACM Europe Summer School on HPC

The quest for the quantum computer

A gentle introduction to quantum computing

ACM Europe Summer School on HPC

ACM Europe, Barcelona

July 7, 2023

ACM Europe, Barcelona

July 7, 2023

Quantum Algorithms I and II Centro de Ciencias de Benasque Pedro Pascual Apr 11-21, 2023 Spring School on Superconducting Qubit Technology The Noisy Intermediate Scale Quantum Computation Universidad Complutense de Madrid Escenarios Científicos

Mar 14, 2023

The Noisy Intermediate Scale Quantum Computation Universitat Autònoma de Barcelona Master Modelling for Science and Engineering Research and Innovation Oct 4. 2022

Variational Quantum Computing Universidad Internacional Menéndez-Pelayo IV Summer School on Quantum Computing Sep 5-9, 2022

Near-term quantum computing Universidad Castilla La-Mancha Clase introducción al curso en Quantum Computing software. Jun 20, 2022

Institut de Ciències Fotòniques (ICFO) NISQ computing Theory lectures Mar 15-24, 2022

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

BSC Bojos per la Supercomputació Introductory course in quantum computation for high-school students 26 Apr - 04 May, 2019

ESADE Business School The Quantum Revolution Seminar at Master in Finance Jun 07, 2018

Teaching positions

Universitat Autònoma de Barcelona **Teacher Assistant** Calculus I-II, Theoretical Mechanics, Physics I - II. 2017 - 2019

Teacher Assistant Universitat de Barcelona

Modern Physics Laboratory, Computational Physics. 2016 - 2017

Students

Variational Quantum Computing

Francesco Aldo Venturelli Universitat Pompeu Fabra Co-supervised with Miguel Ángel González Ballester Nov 2024 - Present **Berta Casas Font University of Barcelona**

Co-supervised with Artur Garcia Sep 2022 - Present

Master

Juan Francisco Martín Bravo **University of Barcelona** Quantum benchmarking: entanglement measures in a quantum computer Feb 2023 - Jul 2023

Master Quantum Science and Technology. **Berta Casas Font University of Barcelona**

Feb 2022 - Jul 2022 Quantum function fitting and classification beyond the single-qubit model Master Quantum Science and Technology.

Internships

Francesc Sabater Garcia **University of Barcelona** Adding Qibo as a Supported Framework for Mitiq Sep 2023 - Feb 2024

Master Quantum Science and Technology.

Undergraduate (degree)

Marc Farreras **University of Barcelona** Feb 2023 - Jul 2023

Exact XY model simulation with a quantum computer

Physics Degree

Alex Alemany Universitat Politècnica de Catalunya Feb 2023 - Jul 2023

The HHL algorithm

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

Elies M. Gil Fuster University of Barcelona

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

Variational Quantum Classifier 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 @giskit

Contributing Writer

Medium articles, Qquantum wa.

Commissary

City and Science Biennal

With Toni Pou and Teresa Badia.

Panels and round tables

Conversation with Antonio Acín

Jornades REACT

Talent Arena MWC

Moderated by Elena Arrieta Palacio.

Premios Nacionales de Investigación

Presenter and moderator of the act.

Mujeres y Digitalización: Por una España Igualitaria

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

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

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

Feb 2022 - Jul 2022

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

Round table with Teresa Riesgo Alcaide, Laia Bonet, Xavier Azemar Mallard Mateo Valero Cortes. Mar 29, 2023

Barcelona May 5, 2022

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

MINECO

Mar 8, 2022

Ajuntament de Barcelona

Feb 11. 2022

Universitat de Barcelona

Mar 3 2021

Keynote speech..... Bojos de la Ciència Fundació Catalunya-La Pedrera Dec 10 2018 Speech about Bojos per la Supercomputació program Fundació Catalunya-La Pedrera Bojos de la Ciència Speech at Master grants act Oct 16 2018 Computació quàntica: passat, present i futur d'una (r)evolució tecnològica Beat Barcelona Mobile World Congress Mar 6. 2025 BSC Booth. Quantum computers: the new supercomputer partition Mobile World Congress Mar 6, 2025 Computación cuántica: pasado, presente y futuro de una (r)evolución tecnológica Burgos, Spain. Casa del Cordón Feb 27, 2025 Universitat de Girona Computació quàntica: passat, present i futur d'una (r)evolució tecnològica 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 Jornada tecnología. Apr 18, 2023 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** Casal de Joves Sant Just Desvern Nov 20, 2022 Present i futur de les tecnologies quàntiques A-12 Estudis i Recerca Universitaria 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 Barcelona. May 11, 2022 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 Col·legi de Biòlegs de Catalunya Tecnologías cuánticas: presente y futuro Virtual. Mar 16, 2022 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 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 Feb 26, 2019 Badajoz, Spain Technology to manipulate Nature El País con tu Futuro Madrid, Spain Dec 18. 2018 TEDx talk

Quantum Computation: a new paradigm

Sant Feliu de Llobregat, Barcelona, Spain

Sep 15, 2018

Quantum Computation

Cosmocaixa (Science Museum)

Researcher's Night 2018 Sep 28, 2018

Mentorship programs

QOSF

GEM

Quantum Open Source Foundation mentorship program

Mentor Sep 2020 - Jan 2021

Girls E-Mentorship program

Mentor Sep 2020 - June 2021