

Alba Cervera-Lierta | Full CV

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Senior researcher in quantum computation at the Barcelona Supercomputing Center and coordinator of the Quantum Spain project.

Education

Doctor of Philosophy (PhD) in Physics <i>Supervisor: Dr. José Ignacio Latorre</i> Title: Maximal Entanglement: Applications to Quantum Computation and Particle Physics.	Universitat de Barcelona 2015 – 2019
Master in Astrophysics, Particle Physics and Cosmology <i>Specialized in Particle Physics and Gravitation.</i> Thesis title: Non-unitary neutrino oscillations.	Universitat de Barcelona 2014 – 2015
Bachelor in Physics <i>Specialized in Fundamental Physics</i> Thesis title: Scaling of entanglement support for iTEBD algorithm.	Universitat de Barcelona 2009 – 2014

Positions

Research	
Senior Researcher <i>Quantic group (CASE department)</i>	Barcelona Supercomputing Center 2021 – Present
Postdoctoral Fellow <i>Alán Aspuru-Guzik group</i>	University of Toronto 2019 – 2021
Technical Researcher <i>Quantic group (CASE department)</i>	Barcelona Supercomputing Center 2017 – 2019
Specialized Technician <i>Project: "Entanglement, tensor networks and cold gases"</i>	Universitat de Barcelona 2014
Coordinator	
EuroQCS-Spain project <i>Quantum computing technology responsible (budget: 12,5 M €)</i>	Barcelona Supercomputing Center 2022 – Present
Quantum Spain project <i>Project Principal Investigator (budget: 22M €)</i>	Barcelona Supercomputing Center 2021 – Present
Visitor	
Center of Quantum Technologies <i>Prof. Kwek Leong Chuan group.</i>	National University of Singapore May 2017
Instituto de Física Teórica <i>Dr. César Gómez's group.</i>	CSIC Feb 2017
Grupo de investigación en Información y Computación Cuántica <i>Dr. Vicente Martín group</i>	Universidad Politécnica de Madrid Sep 2016
Rudolph Pierls Institute for Theoretical Physics <i>Dr. Juan Rojo's group.</i>	University of Oxford Jan - May 2016
Teaching	
Teacher Assistant <i>Calculus I-II, Theoretical Mechanics, Physics I - II.</i>	Universitat Autònoma de Barcelona 2017 – 2019
Teacher Assistant <i>Modern Physics Laboratory, Computational Physics.</i>	Universitat de Barcelona 2016 – 2017

Funded projects

European.....		EuroHPC - Joint Undertaking
EuroQCS-Spain project	Budget: 12,5 M €, Role: Quantum computing technology responsible	2022 – 2026
National.....		
Quantum Spain project	Secretary of State of Digitalization and AI (SEDIA)	
Budget: 22M €, Role: principal investigator https://quantumspain-project.es	2021 – 2025	
Industry.....		
Quantum Experience for Academic Research Program	IBM	
Funding: Exclusive access to pulse-level control of IBM quantum devices, Role: co-PI. Project: High-dimensional quantum experiments superconducting circuits.	2021 – 2022	

Awards and Honors

PhD Excellent Cum Laude	Universitat de Barcelona
	Jun 2019
Teach Me QISKit Award	IBM
https://www.ibm.com/blogs/research/2018/06/teach-qiskit-winner/ Best interactive self-paced tutorial that explains a specific focus topic in quantum computing using QISKit and the IBM Q Experience.	Jun 2018

Publications

Link to [Google Scholar](#) and [OrCID](#).

19. Workflows Community Summit 2022: A Roadmap Revolution	Preprint
<i>R. Ferreira da Silva, R. M. Badia, V. Bala, et. al.</i> arXiv:2304.00019 [cs.DC].	2023
18. Multidimensional Fourier series with quantum circuits	Phys. Rev. A
<i>B. Casas, A. Cervera-Lierta</i> Physical Review A 107, 062612 (2023).	2023
17. Design of quantum optical experiments with Logic Artificial Intelligence	Quantum
<i>A. Cervera-Lierta, M. Krenn, A. Aspuru-Guzik</i> Quantum 6 , 836 (2022).	2022
16. On scientific understanding with artificial intelligence	Nat. Rev. Phys.
<i>M. Krenn, R. Pollice, S. Y. Guo, et. al.</i> Nature Review Physics (2022).	2022
15. Modern applications of machine learning in quantum sciences	Preprint/Book
<i>A. Dawid, J. Arnold, B. Requena, et. al.</i> arXiv:2204.04198 [quant-ph].	2022
14. Toward Reliability in the NISQ Era: Robust Interval Guarantee for Quantum Measurements on Approximate States	Phys. Rev. Research
<i>M. Weber, A. Anand, A. Cervera-Lierta, J. S. Kottmann, T. H. Kyaw, et. al.</i> Physical Review Research 4 , 033217 (2022).	2022
13. Programming Physical Quantum Systems with Pulse-Level Control	Front. Phys.
<i>K. N. Smith, G. S. Ravi, T. Alexander, et. al.</i> Frontiers in Physics, 672 (2022).	2022
12. Learning Interpretable Representations of Entanglement in Quantum Optics Experiments using Deep Generative Models	Nat. Mach. Intell.
<i>D. Flam-Shepherd, T. Wu, X. Gu, A. Cervera-Lierta, M. Krenn, A. Aspuru-Guzik</i> Nature Machine Intelligence 4 (6), 544-554 (2022).	2021

11. Experimental high-dimensional Greenberger–Horne–Zeilinger entanglement with superconducting transmon qutrits <i>A. Cervera-Lierta, M. Krenn, A. Aspuru-Guzik, A. Galda</i> Physical Review Applied 17 , 024062 (2022).	Phys. Rev. Appl. 2022
10. Noisy intermediate-scale quantum algorithms <i>K. Bharti, A. Cervera-Lierta, T. H. Kyaw, T. Haug, et. al.</i> Review of Modern Physics 94 , 015004 (2022).	Rev. Mod. Phys. 2022
9. The Meta-Variational Quantum Eigensolver (Meta-VQE): Learning energy profiles of parameterized Hamiltonians for quantum simulation <i>A. Cervera-Lierta, J. S. Kottmann and A. Aspuru-Guzik</i> PRX Quantum 2 , 020329 (2021).	PRX Quantum 2021
8. Tequila: A platform for rapid development of quantum algorithms <i>J. S. Kottmann, S. Alperin-Lea, T. Tamayo-Mendoza, A. Cervera-Lierta et. al.</i> Quantum Science and Technology 6 024009 (2021).	Quantum Sci. Technol. 2021
7. Data Re-uploading for a Universal Quantum Classifier <i>A. Pérez-Salinas, A. Cervera-Lierta, E. Gil-Fuster, J. I. Latorre</i> Quantum 4 , 226 (2020).	Quantum 2020
6. Maximal Entanglement: Applications in Quantum Information and Particle Physics <i>A. Cervera-Lierta</i> arXiv:1906.12099 [quant-ph].	PhD Thesis 2019
5. Quantum Circuits for Maximally Entangled States <i>A. Cervera-Lierta, J. I. Latorre, D. Goyeneche</i> Physical Review A 100 , 022342 (2019).	Phys. Rev. A 2019
4. Exact Ising Simulation on a Quantum Computer <i>A. Cervera-Lierta</i> Quantum 2 , 114 (2018).	Quantum 2018
3. Multipartite Entanglement in Spin Chains and the Hyperdeterminant <i>A. Cervera-Lierta, A. Gasull, J. I. Latorre and G. Sierra.</i> Journal of Physics A: Mathematical and Theoretical 51 , 505301 (2018).	J. Phys. A Math. Theor. 2018
2. Maximal Entanglement in High Energy Physics <i>A. Cervera-Lierta, J. I. Latorre, J. Rojo and L. Rottoli</i> SciPost Physics 3 , 036 (2017).	SciPost Phys. 2017
1. Operational Approach to Bell Inequalities: Application to qutrits <i>D. Alsina, A. Cervera, D. Goyeneche, J. I. Latorre and K. Zyczkowski</i> Physical Review A 94 , 032102 (2016).	Phys. Rev. A 2016

Software development

Libraries

Quantum computing open-source library “Tequila” Developer., https://github.com/tequilahub/	Python 2021
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Codes and demos

Logic AI algorithm “Klaus” Creator and developer., https://github.com/AlbaCL/Klaus	Mathematica 2022
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Meta Variational Quantum Eigensolver

Co-creator and developer., <https://github.com/aspuru-guzik-group/Meta-VQE>

Python
2021

Talks and seminars

* Virtual talks due to COVID-19 pandemic.

Keynote

The quest for the quantum computer Barcelona, Spain	10th BSC Doctoral Symposium May 9, 2023
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Colloquium

Tecnologies quàntiques: present i futur
Universitat de Barcelona

ICCUB Colloquia
Feb 16, 2022

Invited

Variational Quantum Algorithms
QTYR 2023

CSIC, Madrid
Jul 04, 2023

Quantum Spain in the NISQ era
QBN Meeting on Quantum Computing and Applications

BSC-CNS
Jun 15, 2023

High-dimensional quantum computation: opportunities and challenges
Symposium on Open-Source Tools for Quantum Computing & Simulation

ICFO
Mar 31, 2023

High-dimensional quantum computation
CERN

QT4HPC
Nov 2, 2022

Quantum algorithms in near term devices
IQTC, University of Barcelona (Spain).

New Trends in Computational Chemistry
Sep 9, 2022

Quantum Spain
Barcelona (Spain).

Quantum 2022
Jun 22, 2022

Quantum Spain: un impulso para el ecosistema de computación cuántica
NASERTIC, Pamplona (Spain).

Jornada cuántica
May 4, 2022

Quantum Spain: un impulso para el ecosistema de computación cuántica
SCAYLE, León (Spain).

Jornada Eco. Cuántico
Mar 1, 2022

Near term quantum computation: opportunities and challenges
Bilbao (Spain).

Quantum 2021
Nov 24, 2021

Noisy Intermediate-Scale Quantum era
Virtual (*)�.

JURES 2021
Sep 17, 2021

Noisy Intermediate-Scale Quantum algorithms
Perspectives on Quantum Sensing and Computation for Particle Physics. Virtual (*)�.

CERN
Jul 15, 2021

The Meta-Variational Quantum Eigensolver
Virtual (*)�.

Machine Learning for Quantum X
Jul 6, 2021

The Meta-Variational Quantum Eigensolver
Virtual (*)�.

QWorld Quantum Science Days
Jun 1, 2021

Chronicles of Entangland, the foundation of the SC town
Virtual (*)�.

Qiskit Hackathon Europe
May 26, 2021

Experimental high-dimensional GHZ entanglement with superconducting transmon qutrits
Chicago. Virtual (*)�.

Pulse-level Quantum Control Workshop
May 18, 2021

Maximal Entanglement in High Energy Physics
Topical Group on Hadronic Physics. Virtual (*)�.

APS April Meeting
Apr 15, 2021

Noisy Intermediate-Scale Quantum algorithms
Virtual (*)�.

Universidad Iberoamericana
Apr 13, 2021

Please, feed the quantum troll!
Virtual (*)�.

Q-Hack 2021
Feb 19, 2021

Testing and designing quantum algorithms for the NISQ era
Quantum Computing and Simulation on Near-Term Devices. Virtual (*)�.

INT-20-3
Nov 21, 2020

Maximal Entanglement in High Energy Physics, Quantum Entanglement at Collider Energies

CFNS Stony Brook
Sep 11, 2018

Stony Brook (United States).

**Exact simulation of a Quantum Phase Transition
on a quantum computer**
Barcelona (Spain).

Quantum Phase Transitions
Apr 05, 2018

**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 ().*

APS March Meeting 2021
Mar 18, 2021

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

Q-Turn 2020
Nov 24, 2020

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

QTML 2020
Nov 12, 2020

Maximal Entanglement in Quantum Computation
Barcelona (Spain).

BSC Severo Ochoa Doctoral Symposium
May 07, 2019

Seminars.....

A roadmap to quantum computing integration into HPC infrastructures

RISC2 Seminar Series
Mar 15, 2023

Noisy Intermediate Scale Quantum Computation
Dept. Condensed Matter Physics.

Universidad de Zaragoza
Jun 3, 2022

Noisy Intermediate Scale Quantum Computation
Virtual.

Universidad Nacional de Colombia
Apr 21, 2022

Design of quantum optical experiments with logic artificial intelligence
Quantum Optics group seminar.

MPQ
Oct 29, 2021

High-dimensional quantum computing experiments
*Prof. Manas Mukherjee group meeting (Singapore, Virtual *)*

CQT
Aug 03, 2021

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

Fermilab
Jun 15, 2021

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

Oxford
May 20, 2021

The Meta-Variational Quantum Eigensolver
Virtual.

Scientific Machine Learning Webinars
May 6, 2021

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

Alexandria University
Apr 8, 2021

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

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
Virtual.

Quantum Conversations by the Bay
Nov 28, 2020

Maximal Entanglement. Applications to Quantum Computation and Particle Physics
Matterlab group meeting. Toronto (Canada).

UofT
Mar 1, 2029

Committees

European.....	
Quantum Computing working group	European Quantum Flagship and EuroHPC
<i>Quantum Coordination Board</i>	<i>2023 - Present</i>
Quantum Standardization working group	European Quantum Flagship and EuroHPC
<i>Quantum Coordination Board</i>	<i>2023 - Present</i>
Quantum - HPC Working group	European Quantum Flagship
	<i>2022 - Present</i>
Scientific Advisory Board.....	
Finish Quantum Initiative	CSC, Aalto University, VTT
	<i>2023 - Present</i>
Consell de les Tecnologies Quàntiques de Catalunya	Generalitat de Catalunya
<i>Board member</i>	<i>2022 – Present</i>
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.....	
Fault tolerant quantum algorithms	Universidad Complutense de Madrid
<i>Pablo Moreno-Casares</i>	<i>Jan 17, 2023</i>
Supervisor: Miguel Ángel Martín-Delgado	
Quantum information in lattices	Universitat Autònoma de Barcelona
<i>Bruna Gabrielly De Moraes Araújo</i>	<i>Jul 22, 2022</i>
Supervisors: Antonio Acín dal Maschio, Daniel Cavalcanti Santos and Stephan Jean Louis Roche	

Conference and seminars organization

Quantum Matter International Conference	Madrid
<i>Industrial forum co-organizer.</i>	<i>May 22-25, 2023</i>
Quantum Research Seminars Toronto.	Virtual
<i>Co-organizer and chair. Youtube: Quantum Research Seminars Toronto.</i>	<i>2020 – 2021</i>

Lectures and courses

A gentle introduction to quantum computing	ACM Europe, Barcelona
<i>ACM Europe Summer School on HPC</i>	<i>July 7, 2023</i>
Quantum Algorithms I and II	Centro de Ciencias de Benasque Pedro Pascual
<i>Spring School on Superconducting Qubit Technology</i>	<i>Apr 11-21, 2023</i>
The Noisy Intermediate Scale Quantum Computation	Universidad Complutense de Madrid
<i>Escenarios Científicos</i>	<i>Mar 14, 2023</i>
The Noisy Intermediate Scale Quantum Computation	Universitat Autònoma de Barcelona
<i>Master Modelling for Science and Engineering Research and Innovation</i>	<i>Oct 4, 2022</i>
Variational Quantum Computing	Universidad Internacional Menéndez-Pelayo
<i>IV Summer School on Quantum Computing</i>	<i>Sep 5-9, 2022</i>
Near-term quantum computing	Universidad Castilla La-Mancha
<i>Clase introducción al curso en Quantum Computing software.</i>	<i>Jun 20, 2022</i>

NISQ computing	Institut de Ciències Fotòniques (ICFO)
<i>Theory lectures</i>	<i>Mar 15-24, 2022</i>
Variational Quantum Computing	Universidad Internacional Menéndez-Pelayo
<i>III Summer School on Quantum and Q-Inspired Computing</i>	<i>Sep 7, 2021</i>
Noisy Intermediate-Scale Quantum Algorithms	Warsaw, Poland
<i>Summer School "Machine Learning in Quantum Physics and Chemistry"</i>	<i>Aug 25, 2021</i>
Quantum Computing in the NISQ era	UCL
<i>Talk in Quantum Technologies Winter School</i>	<i>Dec 10, 2020</i>
Bojos per la Supercomputació	BSC
<i>Introductory course in quantum computation for high-school students</i>	<i>26 Apr – 04 May, 2019</i>
The Quantum Revolution	ESADE Business School
<i>Seminar at Master in Finance</i>	<i>Jun 07, 2018</i>

Panels and round tables

As a moderator.....

Round table Industrial forum

Participants: Marta Estarellas, Richard Kienhoefer, Pascale Senellart, Fernando de la Iglesia and Bilal Kalyoncu

Quantum Matter 2023

May 24, 2023

Round table Industrial forum

Participants: Marc Almendros, Niels Bultink, Gianni del Bimbo, Daniel Szombati, Yonatan Cohen, Josep M. Martorell, Heike Riel and Carmen Palacios.

Quantum Matter 2022

Jun 22, 2022

As a participant.....

Quantum computing + Communications: meet at the halfway.

Pannel with Hugues de Riedmatten.

PuzzleX

Oct 7, 2022

Moderated by Carmen G. Almudéver.

Catalan Nanotech Ecosystem Session

Moderated by Stephan Roche.

ACM Nanocomm

Oct 7, 2022

Women in ACM/IEEE WICE Luncheon

Moderated by Núria Castell.

ACM Nanocomm

Oct 6, 2022

Quantum Computing: Changing the Course of Industry

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

Moderated by Jaime Gómez.

Barcelona New Economy Week

Oct 3, 2022

Quantum Technologies

Panel with Silvia Carrasco, Carlos Abellán and Enrique Mora.

Moderated by Rubén Criado

Barcelona Deep Tech Summit

Sep 22, 2022

The Impact of Advanced Computing in AI

Round table with Jean Pierre Panziera and Nicolas Moes.

Moderated by David Pringle

The Future of HPC

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

Moderated by Josephine Wood

Young People Program Career Panel

Quantum Software Ecosystem

Pannel discussion with industry and academic members

Science|Business

Sep 19 2022

ACM Europe Summer School

Sep 2 2022

DATE 2022

Mar 21 2022

IEEE Services

Sep 9 2021

Students

PhD.....		
Berta Casas Font	University of Barcelona	
	Sep 2022 – Present	
Master.....		
Juan Francisco Martín Bravo	University of Barcelona	
<i>Quantum benchmarking: entanglement measures in a quantum computer</i>	Feb 2023 – Jul 2023	
Master Quantum Science and Technology.		
Berta Casas Font	University of Barcelona	
<i>Quantum function fitting and classification beyond the single-qubit model</i>	Feb 2022 – Jul 2022	
Master Quantum Science and Technology.		
Undergraduate (degree).....		
Marc Farreras	University of Barcelona	
<i>Exact XY model simulation with a quantum computer</i>	Feb 2023 – Jul 2023	
Physics Degree		
Alex Alemany	Universitat Politècnica de Catalunya	
<i>The HHL algorithm</i>	Feb 2023 – Jul 2023	
Computer Science Degree. Co-supervised with Jordi Delgado.		
Júlia Barberà Rodríguez	University of Barcelona	
<i>Application of Grover's quantum algorithm for string matching</i>	Feb 2022 – Jul 2022	
Physics Degree		
Elies M. Gil Fuster	University of Barcelona	
<i>Variational Quantum Classifier</i>	Feb 2019 – Jul 2019	
Physics Degree. Co-supervised with J. I. Latorre.		

Outreach

Mentorship programs.....		
Quantum Open Source Foundation mentorship program	QOSF	
Mentor	Sep 2020 – Jan 2021	
Girls E-Mentorship program	GEM	
Mentor	Sep 2020 – June 2021	
Panels and round tables.....		
Jornades REACT	Barcelona	
<i>Round table with Teresa Riesgo Alcaide, Laia Bonet, Xavier Azemar Mallard Mateo Valero Cortes.</i> Mar 29, 2023		
Moderated by Elena Arrieta Palacio.		
Premios Nacionales de Investigación	Barcelona	
<i>Presenter and moderator of the act.</i>	May 5, 2022	
Chaired by HRH King and Queen of Spain, Spanish Minister of Science and Universities and Barcelona Mayor.		
Mujeres y Digitalización: Por una España Igualitaria	MINECO	
<i>Round table with Marta Villegas, Lucía Flecha and Susana Fernández.</i>	Mar 8, 2022	
Moderated by the Secretary of State of Digitalization and AI Carme Artigas.		
Dia Internacional Dona i Nena a la ciència	Ajuntament de Barcelona	
<i>Event with Barcelona city Mayor and government.</i>	Feb 11, 2022	
Women in Physics path	Universitat de Barcelona	
<i>Organized by the Equality commission from the Physics Faculty</i>	Mar 3 2021	
Keynote speech.....		
Margarita Salas Honoris Causa PhD act	Universidad de Extremadura	
<i>Talk "De las computadoras a los ordenadores"</i>	Feb 2 2019	

Bojos de la Ciència	Fundació Catalunya-La Pedrera
<i>Speech about Bojos per la Supercomputació program</i>	Dec 10 2018
Bojos de la Ciència	Fundació Catalunya-La Pedrera
<i>Speech at Master grants act</i>	Oct 16 2018
Articles	
Computación Cuántica en la Nube	RSEF
<i>Revista Española de Física</i>	Mar 2020
How I became a quantum computation scientist	
<i>Medium article for @qiskit</i>	Jul 2018
Contributing Writer	Quantum World Association
<i>Medium articles, @quantum_wa.</i>	2018 – 2019
Talks and courses	
Computació quàntica: passat, present i futur d'una (r)evolució tecnològica	Universitat de Girona
<i>Cicle Últimes fronteres: la ciència del segle XXI</i>	May 4, 2023
Computación cuántica: presente y futuro de una revolución tecn.	Uni. Las Palmas de Gran Canaria
<i>Jornada tecnología.</i>	Apr 18, 2023
Computació Quàntica i els reptes de Talent TIC en els propers anys	Lul·liana
<i>Col·legi d'Informàtica de Catalunya</i>	Nov 24, 2022
Tecnologies quàntiques: present i futur d'una (r)evolució tecnològica	Jornades Feministes
<i>Casal de Joves Sant Just Desvern</i>	Nov 20, 2022
Present i futur de les technologies quàntiques	A-12 Estudis i Recerca Universitaria
<i>Two-day introductory course for senior citizens.</i>	Oct 20-26, 2022
Computació quàntica: present i futur d'una revolució tecnològica	Open Day TIC
<i>Universitat Politècnica de Catalunya.</i>	May 12, 2022
Tecnologías Cuánticas: presente y futuro	Pint of Science
<i>Barcelona.</i>	May 11, 2022
Quantum Spain: un impulso para el ecosistema de computación cuántica	CTA
<i>Seminar for the Corporación Tecnológica de Andalucía. Virtual.</i>	Apr 26, 2022
Supercomputación y Quantum Spain	PTE Disruptive
<i>Seminar for the Plataforma Tecnológica Española y de Tecnologías Disruptivas. Virtual.</i>	Mar 22, 2022
Tecnologías cuánticas: presente y futuro	Col·legi de Biòlegs de Catalunya
<i>Virtual.</i>	Mar 16, 2022
Computación Cuántica	Live Talks Cosmocaixa
<i>Cosmocaixa (Barcelona)</i>	Feb 16, 2022
Quantum Spain	Meet-up
<i>Quantum Barcelona and Madrid meet-up.</i>	Dec 13, 2021/Feb 9, 2022
Quantum Calling	K-W Quantum Enthusiasts Meetup
<i>Waterloo Quantum Meet-up</i>	Jun 18, 2020
Quantica	CCCB
<i>Quantum computing talk and participation in the exhibition (video)</i>	Apr 10-Sep 26, 2019
De las computadoras a los ordenadores	Margarita Salas Honoris Causa PhD event
<i>Badajoz, Spain</i>	Feb 26, 2019
Technology to manipulate Nature	El País con tu Futuro
<i>Madrid, Spain</i>	Dec 18, 2018
Quantum Computation: a new paradigm	TEDx talk
<i>Sant Feliu de Llobregat, Barcelona, Spain</i>	Sep 15, 2018

Other skills

Programming Languages.....

Classical: Fortran, Python, Mathematica.

Quantum: QisKit (IBM), Qiskit Pulse (IBM), pyquil (Rigetti Computing), Cirq (Google), Tequila (MatterLab), Qibo.

Languages.....

English (fluent), Spanish (mothertongue), Catalan (mothertongue).

Media.....

All videos, links and audio can be found in my webpage.

Television: Interviews in Spanish and Catalan television (Orbita Laika, Els Matins TV3, News, ...)

Newspapers: Several interviews in Spanish and Catalan newspapers (La Contra de La Vanguardia, El Periódico, El Mundo, ...)

Radio and podcast: Several interviews in Spanish and Catalan radio programs and English podcasts (RAC1, Catalunya Radio, RNE, ...)

Twitter: Creator and manager of research group's account, @QUANTIC_BSC (until Jul 2019) and @QRSToronto (until Sep 2021).