

María Gragera Garcés

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Introduction

I'm a PhD student at the University of Edinburgh, working on distributed quantum computing with Prof. Chris Heunen and Prof. Mahesh Marina. With a physics background, I've worked on quantum networking, photonic simulations, and quantum software across industry internships.

Work History

Quantum Software Lab

*Edinburgh**PhD Researcher**Sep 2024 – Aug 2028*

- Developing frameworks for model agnostic distributed quantum computing for hybrid workloads.
- Investigating circuit partitioning, communication protocols, and resource scheduling for quantum networks.

Quantinuum

*Cambridge**Quantum compiler intern**Sep 2025 – Dec 2025*

- Built a parallelized circuit optimizer in Rust for Quantinuum's TKET compiler.

National Quantum Computing Centre

*STFC Harwell Campus**Quantum Software Resident**Mar 2024-May 2024*

- Developed and deployed Trotterized Vlasov–Poisson simulations for plasma modelling on quantum hardware.
- Worked with NQCC application engineers to solve real-world use cases with quantum computers.

IBM Quantum

*Zurich, Remote**Community Advocate Intern**May 2023 – Aug 2024*

- Built and maintained IBM's UK Quantum Community, collaborating with partners and Quantum Hubs.
- Promoted IBMQ infrastructure adoption through tailored programs and community engagement.

Cisco

*London**Placement Research Intern**Jul 2021 – Aug 2022*

- Led internal quantum network simulation efforts using discrete event simulator tools.
- Collaborated with academic research groups from the Centre for Quantum Networks (CQN).

Education

PhD in Quantum Informatics

*Sept 2024 – August 2028**University of Edinburgh*

Conferences: SIGCOMM, ARC Quantum Summer School, FQCE25, Entanglement Information and Complexity in Quantum Systems, NQCC Scalability Conference, NPL Quantum Simulation and Digital Twins masterclass

BSc Physics

*Sept 2019 – July 2024**University of Bath*