

MIQUEL JORQUERA, CV

Contact Details

Address: Celestijnenlaan 27, 0301
3001 Heverlee, Leuven
Belgium

Phone number: (+34) 621 07 87 02

E-mail: m.jorquera@live.com

Date and place of birth: 19 Feb 1996, Spain

Nationality: Spanish

Education

09/2019-05/2021: Enrolled in the **PhD program** of the Okinawa Institute of Science and Technology (OIST). **Unfinished.**

Lab rotations:

- Qubits and Spacetime Unit (Philipp Höhn)
- Quantum Gravity Unit (Yasha Neiman)
- Gravity, Quantum Geometry and Field Theory Unit (Reiko Toriumi)

10/2018-02/2019: Enrolled in and completed the **Relativity and Geometry** course from the Advanced Physics and Applied Mathematics Master's degree by the Universitat de les Illes Balears (UIB).

09/2014-09/2018: **MPhys Hons Theoretical Physics** from Lancaster University (UK).

Final average grade: **74%** (1st class).

- Master's thesis project: Designing a singularity-free optical black hole. Supervised by Jonathan Gratus.
- Bachelor's final project: Canonical quantization of the electromagnetic field, and a review of photon localizability and photon wavefunctions.
- Other projects: Literature review on space(-time) cloaking devices and transformation optics. Numerical simulation of a linear particle accelerator. Numerical simulation of the effects of impurities on the conductance and density of states of graphene nano-ribbons.

09/2012-09/2014: Spanish **Bachillerato (Science and Technology)** at Colegio Montesión.
Average grade: **8.37/10**.

Relevant experience

- 2015-2017:** Holiday training by Alicia Sintes and Sascha Husa from the [Relativity and Gravitation Group](#) (GRG) at the Universitat de les Illes Balears (UIB). I learned MATLAB, Python, and data analysis by reproducing the results of several papers on gravitational waves and the LIGO, Virgo and LISA detectors.
- 09/2015:** Served as auxiliary for the [ERE2015](#) (Spanish Relativity Meeting), held at UIB.

Programming

- Python:** 4 years experience. Used for my MPhys project, UIB research collaboration, and various other projects.
- Javascript, HTML:** Self-taught via [freecodecamp](#) and earned the relevant certifications. [Portfolio](#).
- MATLAB:** 1 year experience. Used during my summer training and a group project at university.
- Java:** Learned during a 10-week course at university, and used for a linear particle accelerator numerical simulation.

Languages

- English:** 7.5/10 IELTS in 2014, and have been working at English-speaking universities since.
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 - Gravity, Quantum Geometry and Field Theory Unit (Reiko Toriumi)
- Spansih:** Native.
- Catalan:** Native.