Miquel Jorquera, CV

Contact Details

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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.

Spansih: Native.

Catalan: Native.