

Dear Bruno Julia Diaz,

My name is Joan Pareras Velasco. I am writing with regard to the appliance for the Inter-university Master in Quantum Science and Technology coordinated by the UB.

I am hopefully finishing my degree in physics in the UB this semester. After attending the courses about quantum physics and programming, I was delighted by the potential of the topics discussed. I found really interesting how computation is used to create different algorithms capable of solving all kind of problems, and the tremendous improvement that can be achieved by making use of quantum physics. In fact, that is why my final degree project is about "tensor networks and non-locality".

I can see myself involved in this fields, such as in finding the solution to NP problems, and in using different techniques, like tensor networks, to improve or design algorithms. I have genuinely enjoyed facing the programming problems that I have encountered during my studies. For that, I am confident that I will work my fingers to the bone until I tackle future ones. Also, I like to always go the extra mile and widen my knowledge about the quantum world.

Despite the fact that it is a new master, I would really love to continue my career in the UB. I have had an extraordinary experience here. All the professors taught and guided me in the best way possible and made my physics background something to be proud of. Furthermore, I like the fact it is taught in English.

Thank you for your time. I am looking forward to receiving your response.

Yours sincerely,

Joan Pareras Velasco

A handwritten signature in black ink, appearing to be 'JPV' with a checkmark at the end.