

March 12, 2023

To whom it may concern,

My name is Víctor Ballester and I am currently enrolled in my last course in the Mathematics degree at the Autonomous University of Barcelona. For years I have been highly attracted to Applied Mathematics, and in particular, to dynamical systems and numerical analysis. This is one of the main reasons why I am applying for the M2 Applied and Theoretical Mathematics at the Dauphine and Paris Sciences et Lettres universities with the PSL grant. Once finished the master, I would like to continue my studies in a doctoral program.

There are two main reasons to apply for this master. Firstly, my current university studies have given me the insights to become familiar with concepts of analysis and the theory of differential equations. Subjects such as Differential Equations And Modelling (I and II), Numerical Methods and all courses of Analysis have given me the tools to properly understand how to deal with applied complex problems in many branches of science. Because of this, I find the relation that Math has with Physics and Engineering really interesting but without losing the rigor that makes Math so gorgeous. And as far as I am concerned, your master program does have a vast number of applied subjects. And this is something that really appeals to me.

Secondly, applying for such an outstanding college with so prestigious professors is really challenging. But the fact that I have always dreamed of studying at this high level in a foreign country makes me feel motivated and enthusiastic about it. In addition to that, the experience that someone gets by living and studying abroad is very culture-enriching. Thus, I am very looking forward to moving to Paris for a while.

Regarding my performance in Math, I would like to mention that I have been improving not only my marks but also my deep knowledge in the subjects during my time at university. This is due to several reasons. First of all, I consider myself a very hard-working person as well as highly competitive in all aspects. These competences have given me the power to become better in many aspects of my life, specially in Math in which the fact of having bright classmates has encouraged me to do better in many subjects. On the other hand, the annual participation in many well-known Math and Physics competitions proves my absolute love for these subjects as well as the passion they transmit to myself. All of this academic background stands me in good stead to pursue higher studies abroad.

On balance, the acceptance in this master would allow me to continue expanding my knowledge of Math more deeply at the so prestigious Dauphine and Paris Sciences et Lettres universities.

Thank you very much for considering my application.

Yours faithfully,

Víctor Ballester