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Motivation letter for the Master in Applied and Computational Mathematics

Dear admission committee,

I read your master program offer with great interest. I am a mathematical engineer from Universidad EAFIT, Colombia. I developed a passion for mathematics since I was 15 years old and I have been always striving to learn new concepts since then. My bachelor was focused on theoretical and applied mathematics for research and real-world problem solving, during which I did a five-month internship in Brussels, Belgium. Currently, I am a simulation engineer at FinCrime Dynamics (United Kingdom), where I work in mathematical modeling of financial fraud, simulation, synthetic data generation, stochastic processes and statistics. I have experience in academic writing and junior research.

The master in applied and computational mathematics is closely related to my bachelor and this is the main reason I am considering this program. As I already have studied the basics in the past, I can take advantage of the program to deepen my knowledge in specific interest areas and gain experience and skills in research. At the University of Bergen, I strongly believe I would be able to grow as a person and as a researcher, specially in a country which has always captivated me due to its life quality, security, happiness and opportunities.

From an academic perspective, I believe I can bring interest and research ideas based on the experience from my current employment in topics like mathematical modeling of financial crime with synthetic data, large scale simulation, and stochastics; or perhaps propose project ideas related with photonics jointly with my previous supervisors at VUB. Nevertheless, I have always been flexible to develop and deliver projects in a multidisciplinary setting, as my CV shows.

In conclusion, I am confident that my combination of theoretical background and multi-disciplinary project development, and now short working experience, are strongly aligned with the program's objectives and expected profile from a graduate. Finally, this program would be an effective step in my path to become a researcher and perhaps assemble the steps for an immediate PhD.

Thank you for your consideration.

With kind regards,

David Plazas