



UNC

Universidad
Nacional
de Córdoba



Facultad de Matemática,
Astronomía, Física y
Computación

Córdoba, April 14th 2025

Dear Sir or Madam,

I am writing to give my strongest recommendation to Valentina Chaves for her participation in the 2025 Hong Kong Laureate Forum. Valentina is a very talented undergraduate student, whose passion for mathematics is more than evident. I have had the privilege of teaching Valentina and have witnessed her growth as a mathematician, and I am confident that she will benefit immensely from this opportunity.

Valentina is currently entering the final year of her undergraduate studies in the Licenciatura en Matemática at the Universidad Nacional de Córdoba, Argentina. Throughout her academic career, she has maintained a very good record, achieving an average grade of 8.60 out of 10. Her academic performance reflects not only her intellectual ability but also her work ethic and commitment.

I had the pleasure of teaching Valentina in the course Differentiable Manifolds during the first semester of 2024. In this course, she demonstrated a great capacity for understanding complex concepts and engaging with advanced mathematical ideas. Valentina's curiosity extended beyond the classroom, as she became interested in Differential Geometry after the course, leading her to choose me as her supervisor for her bachelor thesis. The topic I proposed for her thesis involves the computation of the de Rham cohomology of certain nilmanifolds and solvmanifolds equipped with complex or hypercomplex structures. This task involves both theoretical depth and practical implementation, as she will be required to develop mathematical algorithms to perform the necessary computations. While this project will present challenges, I have no doubt that Valentina will approach it with the perseverance needed to produce a great work.

Valentina is passionate about pursuing a career in scientific research and intends to apply for doctoral programs in mathematics, either in Argentina or internationally. I am confident that her intellectual curiosity and her dedication to advancing knowledge will serve her well in this endeavor. Attending the Hong Kong Laureate Forum will provide her with a unique opportunity to interact with world-renowned mathematicians and expose her to recent developments in the field of mathematics. I believe this experience will be invaluable to her growth as a researcher.

In conclusion, I have no reservations in recommending Valentina Chaves for participation in the Hong Kong Laureate Forum. She is an outstanding student and a promising young mathematician, and I am certain that she will make the most of this remarkable opportunity.

Should you require any additional information, please do not hesitate to contact me.

Yours faithfully,

Dr. Adrián Andrada

Full Professor

Universidad Nacional de Córdoba

Argentina