My long and enjoyable interaction with mathematics goes back two decades to the moment I first realized patterns around me, for instance, reading a clock and understanding why a clock's hands pass a number twice. At that time, my older sister was an outstanding mathematics student, and she introduced mathematics to me. As I grew older, I decided to choose the mathematics and physics major in high school. Having studied mathematics and physics in the NODET (National Organization for Development of Exceptional Talents) schools, which are the best high schools in Iran, I found myself interested in equations and mathematical methods in everything. Hence, I studied hard for the National Iranian University Entrance Exam (Konkoor-e-Sarasari) for undergraduate studies and ranked among the top 1% of the participants. I have started my Bachelor of Science in mathematics at the Amirkabir University of Technology (Tehran Polytechnic University), the second-best university in my country.

By taking various academic courses, such as Analysis, Ordinary Differential Equations, and Partial Differential Equations, my desire to study in the field of differential equations increased. Furthermore, I became fond of these fields during my research entitled Artificial Neural Network for Solving Differential Equations under Prof. _____ supervision. It's an honor to share that the results of this research will be published in a journal; in other words, it is an under-preparation paper. Also, I continued enhancing my expertise in this field by joining the _____ Research Group to design an intelligent ___. I am working there as a research scientist in the differential equations and numerical analysis field. I'm practicing teamwork there and becoming acquainted with the atmosphere of working in a group. These research projects solidified my decision to seek a graduate degree in analysis and differential equations, focusing on PDEs.

It is worth mentioning the other two of my research works. As my B.Sc. thesis, I tried going beyond the mathematics borders. Combining mathematics and data science, I chose to explore Topological Data Analysis under the supervision of Prof. _____. Since I believe the length of an undergraduate program is not considerable enough to study every interest of your own deeply, I have always sought opportunities to experience new, independent areas of research. For this reason, I have joined _____ (Computational Biology Research Center at AUT) and started researching ____ Regulatory Network Reconstruction under Prof. _____ supervision. These experiences helped me learn to work with different people and become a multi-tasking person.

During my years of studies, I have always been a hard-working student who explores the science and tries to get good grades. As a result, in the last two years of my study, I have gained an overall GPA of 3.6/4. I have a semester left, and I will be graduating by the end of February 2022.

All in all, I am confident that, as a result of my academic background, I will be an excellent researcher in the fields of _____ Differential Equations at the University of Calgary. I know that pursuing my graduate degree at the University of Calgary will provide the ground for me to achieve my academic goals. Because of my enthusiasm in this field, I assure you that I will do my best to attain my educational goals, no matter how difficult the road may become.