

Please clearly indicate the reasons you wish to study in the Quantitative BioSciences interdisciplinary graduate program at Georgia Tech as opposed to some other program or university. The biography should describe the applicant's academic background, training and experience and should mention honors, memberships, and extracurricular activities. Special areas of research or interest should be discussed. Please be concise and specific in your response. Your space is limited to 4000 characters including spaces.

“Why are you going to keep on studying? You’re going to end up working that has nothing to do with what you’re studying.” Since I started my Bachelor’s degree in Theoretical Physics, I have been asked this question after mentioning my aspiration to pursue graduate studies. Yet, the questions or comments do not discourage me. The more I am able to learn the better. I find myself often longing for more time and opportunities to be able to learn, develop skills, improve abilities, among other things. However, I do not want to expand my knowledge and do nothing at all. Throughout several experiences I have come to realize that I want to be able to contribute in any and if possible solve one of today’s many difficulties. I firmly believe that being part of the Quantitative BioSciences interdisciplinary graduate program will give me the opportunity to attain knowledge in different STEM fields and achieve my goal.

“I choose you out of all the students that wanted to compete because I am certain you can succeed,” those were the words from my Physics High School teacher, Dr. Ivan Lopez, when I doubted that I could bring back a first place to my school. From that moment onwards, his words motivated me to keep pursuing Physics. Thus, I decided to major in Physics, specifically in Theoretical Physics. Originally, I wanted to become a Pediatrician to be able to reach children that were in need of medical services but cannot access them. Nonetheless, I realized that I lacked motivation and passion. However, I still wanted a higher degree to be able to expand my knowledge. It was clear to me that I wanted to develop my understanding of biological sciences. As a result, my goal became to obtain a PhD focused on Biological Physics. My participation in Georgia Tech’s Research for Undergraduate Experience (REU) under the guidance of Dr. Daniel I. Goldman (See letter of recommendation) allowed me to confirm my interests in Biological Physics. My REU experience motivated me to start developing and present to my fellow members of the Society of Physics Students (SPS) an interdisciplinary robotics project that would encourage students to learn about multiple STEM disciplines. Once the project is completely developed, I will be encouraging my fellow members of the National Society of Collegiate Scholars (NSCS) to participate. Additionally to the REU, several courses have prepared me and given me the tools necessary to conduct research such as General Physics, Chemistry, Biology, and Computer Science, among others. Outside of my academics, I form part of a juvenile church group which I have been leading for the past four years. I’ve succeeded to encourage and help other members to, not only attend and participate in our local church but also involve themselves through community service and progress academically. Also, I form part of a worship group in which I play guitar and occasionally sing. This involvement with my local church and the juvenile group has allowed me to further develop my leadership and communication skills.

I am deeply interested in the research of the biomechanics of locomotion of organisms and their behaviors while subjected to different environments. With the study of biological systems, we enhance our understanding of them potentially leading to innovative discoveries, and consequently the development of new technology to contribute to solve one of today's many limitations. However, this cannot be achieved without the collaboration among disciplines. Interdisciplinary studies allow the flow of new ideas and could potentially lead to breakthrough discoveries. Therefore, I firmly believe that the Quantitative BioSciences program can help me achieve contribute to the scientific community and consequently benefit society.