

# Statement of Purpose

## Master of Science in Computational Finance

### Università degli Studi di Padova

- **Introduction**

The dynamic interplay between finance and technology has long captivated me. Witnessing the transformative power of computational tools and artificial intelligence in shaping financial markets has ignited a fervent desire to delve deeper into this fascinating intersection. My experience as a Finance Manager at Sky Marketing, coupled with my academic background, has provided a strong foundation in financial analysis and management. This foundation, fuelled by a growing fascination with quantitative methods, now propels me towards the esteemed Master of Science in Computational Finance program offered by Università degli Studi di Padova.

Throughout my tenure at Sky Marketing, I thrived in the fast-paced environment, managing financial activities for a FMCG business. This experience honed my expertise in financial analysis, budgeting, and strategic planning. But beyond the financial realm, I actively participated in supplier negotiations and explored new market opportunities. Notably, my negotiation skills resulted in a 15% increase in profit margin, highlighting the importance of understanding market dynamics and strategic decision-making in achieving business success.

- **Education Background**

My academic journey began with a Bachelor of Commerce degree from Savitribai Phule Pune University (India). This rigorous program honed my analytical and problem-solving skills while instilling a comprehensive understanding of core financial principles. This foundation equipped me with the necessary knowledge base to embark on a successful professional career.

Further solidifying my passion for finance, I successfully cleared the Common Proficiency Test (CPT) of the Chartered Accountant (CA) exams conducted by the Institute of Chartered Accountants of India (ICAI). This rigorous entrance exam tested my knowledge of accounting principles, economics, and law, providing a deeper understanding of the financial landscape. Additionally, I actively pursued the CA Intermediate exam, further expanding my comprehension of financial analysis, taxation, and auditing practices. While the demands of my career prevented me from completing the entire CA program, the preparation process significantly enhanced my quantitative skills and solidified my desire to specialize in computational finance.

- **Professional Experience**

For over three years, I thrived in the fast-paced environment at Sky Marketing, a leading FMCG company. As a Finance Manager, I played a pivotal role in overseeing the financial health of a multi-million-dollar business. Here, I honed my expertise in financial reporting, budgeting, and cash flow management. However, my responsibilities transcended the purely financial realm. The dynamic nature of the FMCG industry necessitated a holistic understanding of business operations. Beyond financial reporting, I actively participated in supplier negotiations, a crucial aspect of financial planning and risk management. My ability to analyse market trends and negotiate effectively resulted in a significant 15% increase in profit margin, highlighting the importance of understanding not only financial analysis but also the strategic decision-making that underpins financial success.

- **Why Italy**

Italy, with its rich historical legacy in mathematics and finance, offers a unique and inspiring environment to pursue a Master's degree in Computational Finance. From the groundbreaking contributions of mathematicians like Fibonacci to the contemporary prominence of quantitative finance firms, Italy provides a compelling case study for understanding the historical and contemporary evolution of financial modelling. The opportunity to learn from esteemed faculty with expertise in both computational methods and financial theory, coupled with the program's emphasis on applications of quantitative finance in the Italian financial sector and risk management in the European context, will equip me with invaluable insights that resonate directly with the global financial landscape.

- **Reason to choose Università degli Studi di Padova**

Università degli Studi di Padova stands out as the ideal institution for my Master's studies due to its unique program structure and its esteemed reputation for academic excellence. The program's emphasis on advanced financial modelling using Python, financial reporting and risk management, fundamentals of Computational Mathematics and machine learning for financial applications aligns perfectly with my desire to develop a robust skillset in quantitative finance and computational modelling. Furthermore, the program's potential for research projects with faculty on cutting-edge topics in computational finance aligns with my goal of not only acquiring theoretical knowledge but also contributing to the advancement of the field. This combination will allow me to bridge the gap between theory and practice, ensuring I am well-equipped to navigate the complexities of the ever-evolving world of computational finance.

The University's focus on fostering a multicultural learning environment, with international students and faculty, further strengthens its appeal. This environment will provide me with invaluable opportunities to learn from diverse perspectives, develop strong communication skills, and build a network of international contacts within the field of computational finance. These are all essential skills for success in today's global financial markets, where effective collaboration and information sharing are paramount.

- **Motive to Return to India**

While I am eager to gain a global perspective on computational finance and hone my skills in a vibrant international environment, my ultimate goal is to return to India and contribute my acquired knowledge and expertise to the continued growth and development of the Indian financial sector. The program's strong emphasis on computational methods and financial modelling will equip me with the necessary skills to navigate the complexities of international finance and apply that knowledge to the Indian market. Upon returning to India, I envision myself playing a key role in developing innovative financial products and risk management strategies, ultimately contributing to the development of a robust and dynamic Indian financial ecosystem.

- **Conclusion**

My strong academic background, proven financial acumen, growing expertise in quantitative methods, and unwavering dedication to the evolving field of computational finance make me a valuable addition to your program. I am confident that my experience, coupled with the esteemed education offered by Università degli Studi di Padova, will equip me to excel in the field of computational finance. I am eager to contribute to the vibrant academic environment at your university and embark on this exciting journey towards a fulfilling career in computational finance, ultimately using my expertise to propel the Indian financial sector forward.

**Sincerely**

**Ameer Hamza Nouman Memon.**