Sep 2018 - Jan 2019

Samira Amiriyan

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Education 2023 - Now PhD Mathematical Sciences, University of Liverpool ☑, Liverpool, UK Primary Supervisor: Dr. Ehsan Azmoodeh • Secondary supervisor: Dr. Youness Boutaib **M.Sc.** Mathematical Finance, Amirkabir University of Technology (Tehran Polytechnic) 2018 - 2020, Tehran, Iran • Primary Supervisor: Dr. Erfan Salavati • Secondary supervisor: Dr. Omid Naghshine Arjmand 🗹 • M.Sc. Thesis: "Fractional Stochastic Volatility Models and Applications in Pricing" • Ranked 2nd among M.Sc. students in Mathematical Finance major • GPA: 3.86 / 4.0 **B.Sc.** Applied Mathematics, Amirkabir University of Technology (Tehran Polytechnic) 2014 - 2018 , Tehran, Iran · 28 credits in Industrial Engineering • Among the top 10% of students • GPA: 3.64 / 4.0 **Publications** • 'Option Pricing in The Fractional Stochastic Volatility Models using Malliavin calcu-Sep 2021 lus', **Samira Amiriyan**, Paper Presentation of The 52nd Annual Iranian Mathematics Conference, • 'Fractional Stochastic Volatility Models and Applications in Pricing', **Samira Amiriyan**, Feb 2020 Paper Presentation of The 6th FINACT-IRAN National Conference on Financial and Actuarial Mathematics. Teaching Experience ____ • University of Liverpool, Liverpool, UK Teaching Assistant, Department of Mathematical Sciences - Statistics and Probability I, Dr. Alena Haddley Sep 2023 - Jan 2023 - Applied Probability, Dr. Ehsan Azmoodeh Sep 2023 - Jan 2023 - Supervisor of undergraduate students (M391), Dr Youness Boutaib Jun 2024 - July 2024 - Statistics and Probability I, Dr. Alena Haddley Sep 2024 - Jan 2024 Applied Probability, Dr. Ehsan Azmoodeh Sep 2024 - Jan 2024 - Supervisor of undergraduate students (M391), Dr Youness Boutaib Jun 2025 - July 2025 • Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran Teaching Assistant, Department of Mathematics and Computer Science

- Fundamentals of logic and set theory, Dr. Farzad Didehvar

Conferences & Presentations	
• 'COMPUTING THE IMPLIED VOLATILITY THROUGH NEURAL NETWORKS WITH ASYMPTOTIC REGIMES', <i>Samira Amiriyan</i> and Youness Boutaib, Poster Presentation of 5th Barcelona Summer School of Stochastic Analysis and Quantitative Finance, ✓	July 2025
• 'Learning Price Function Under No Arbitrage', Samira Amiriyan , Poster Presentation of 7th Berlin Workshop on Mathematical Finance for Young Researchers,	Sep 2024
 'Pricing European Options in Fractional Stochastic Volatility Models', Samira Amiriyan, Poster Presentation of The 12th Seminar on Probability and Random Processes. 	Sep 2019
Work Experience	
• Residential Advisor, University of Liverpool 🗹	Jun 2024 - Present
 Provide pastoral and first-response support and guidance to over 100 residents in university accommodation 	
 Respond to emergencies and mediate interpersonal conflicts in line with university policy 	
 Plan and deliver events to promote student wellbeing, inclusion, and community engagement 	
• Chief Financial Officer at Rahyab Behineh Consulting Engineers Co. 🗹	Jun 2020 - Jul 2021
Stock Trader (Personal Trader) at Tehran Stock Exchange Market	Mar 2020 - Dec 2021
Honors & Awards	
 3.5 years Postgraduate Research Studentship (full-time rate) for a Ph.D. in Mathematics, School of Physical Sciences (Dept of Mathematics), University of Liverpool	2023
 Ranked 2nd among M.Sc. students of Mathematical Finance Major at Amirkabir University of Technology (Tehran Polytechnic) ☑, Tehran, Iran 	2020
 Among the top 10% of B.Sc. students of Applied Mathematics Major at Amirkabir University of Technology (Tehran Polytechnic) ☑, Tehran, Iran 	2018
 Full tuition scholarship for an M.Sc. (funded by the Iranian government) in Mathematics at Amirkabir University of Technology (Tehran Polytechnic) ☑, Tehran, Iran 	2018
• Full tuition scholarship (funded by the Iranian government) for a B.Sc. in Mathematics at Amirkabir University of Technology (Tehran Polytechnic) ☑, Tehran, Iran	2014
Fields of Interests	
Mathematical Finance	
Quantitative Finance	
 Machine Learning Applications in Quantitative Finance 	
Asian Options and Exotic Derivatives	
Implied Volatility Surface Modeling	

Software Skills _____

Python | C Programming | GAMS | LaTeX | Maple

Activities _____

 RLSS UK Qualifications Level 3 Award in Emergency First Aid at Work, Royal Life Saving Society UK 	2024 - 2027
• Participated in Family Network Workshop ☑, University of York	Dec 2024
 Introduction to Supporting Student Learning, also known as Stage 1 of Foundations of Teaching in Higher Education, University of Liverpool 	Oct 2023 - Jan 2024
• Participated in Family Network Workshop ☑, University of Liverpool	Dec 2023
 In charge of Moasheran Cultural and Social Magazine, AmirKabir University of Technology 	2018 - 2019
 Secretary of the Coordination Council of The Extracurricular Student Club Arts and Culture, Amirkabir University of Technology 	2018 - 2019
 Writer at Moasheran Cultural and Social Magazine, AmirKabir University of Technology 	2017 - 2019
 Elected Head member and speaker of the Students Music Club of The Extracurricular office, Amirkabir University of Technology 	2017 - 2018
 Chief Financial Officer of the Students Music Club of The Extracurricular office, Amirkabir University of Technology 	2016 - 2017
Playing Piano	2007-Present

Languages _____

Farsi Native

English Upper-Intermediate (IELTS: 7)

Arabic Basic knowledge