



THE LONDON SCHOOL  
OF ECONOMICS AND  
POLITICAL SCIENCE ■

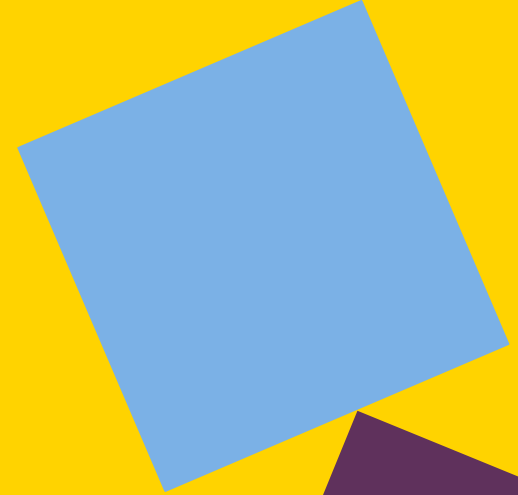
Department of Statistics  
Programme Q&A Session  
**MSc Quantitative  
Methods for Risk  
Management**





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# The Department of Statistics





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# MSc QMRM at LSE

Run by [Probability in Finance & Insurance](#)

*World-class training in mathematical, statistical, and machine learning methods for the modelling and analysis of risk in financial markets and beyond.*

**The core part** is organised along the following three pillars:

1. The theory and application of stochastic processes
2. Fundamental statistical methods for risk management
3. Modern computational techniques for challenging problems in quantitative finance and risk quantification

**Beyond the core part**, you will benefit from five optional courses:

- A wide range of cutting-edge courses in statistics, data science, mathematical modelling, and finance
- Allows you to tailor your degree and make the most of the LSE's world-class Departments of Statistics, Mathematics, and Finance

# MSc QMRM: Programme Components

At LSE we have three terms: Autumn Term, Winter Term, Spring Term.

You will follow **eight courses** (0.5 units) and a **pre-sessional course**

The **pre-sessional** is mandatory:

- It takes place from Monday 9<sup>th</sup> Sep to Friday 20<sup>th</sup> Sep
- It allows you to get up to speed on probability, measure theory, and basics of stochastic processes
- It is not assessed, but there is a voluntary exam at the end



# MSc QMRM: Programme Components

At LSE we have three terms: Autumn Term, Winter Term, Spring Term.

You will follow eight courses (0.5 units) and a pre-sessional course

Three of your courses are core courses:

- ST409 Stochastic Processes (AT)
- ST429 Statistical Methods for Risk Management (AT)
- MA417 Computational Methods in Finance (AT)
  - ST433 Stochastic Simulation, Training and Calibration (WT)

# MSc QMRM: Programme Components

At LSE we have three terms: Autumn Term, Winter Term, Spring Term.

Five of your courses are optional courses (0.5 units): Course selection will be open 21<sup>st</sup> Sept – 6<sup>th</sup> Oct

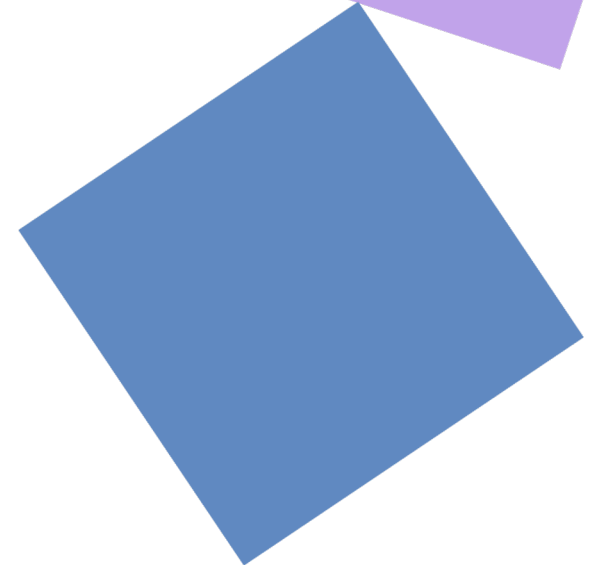
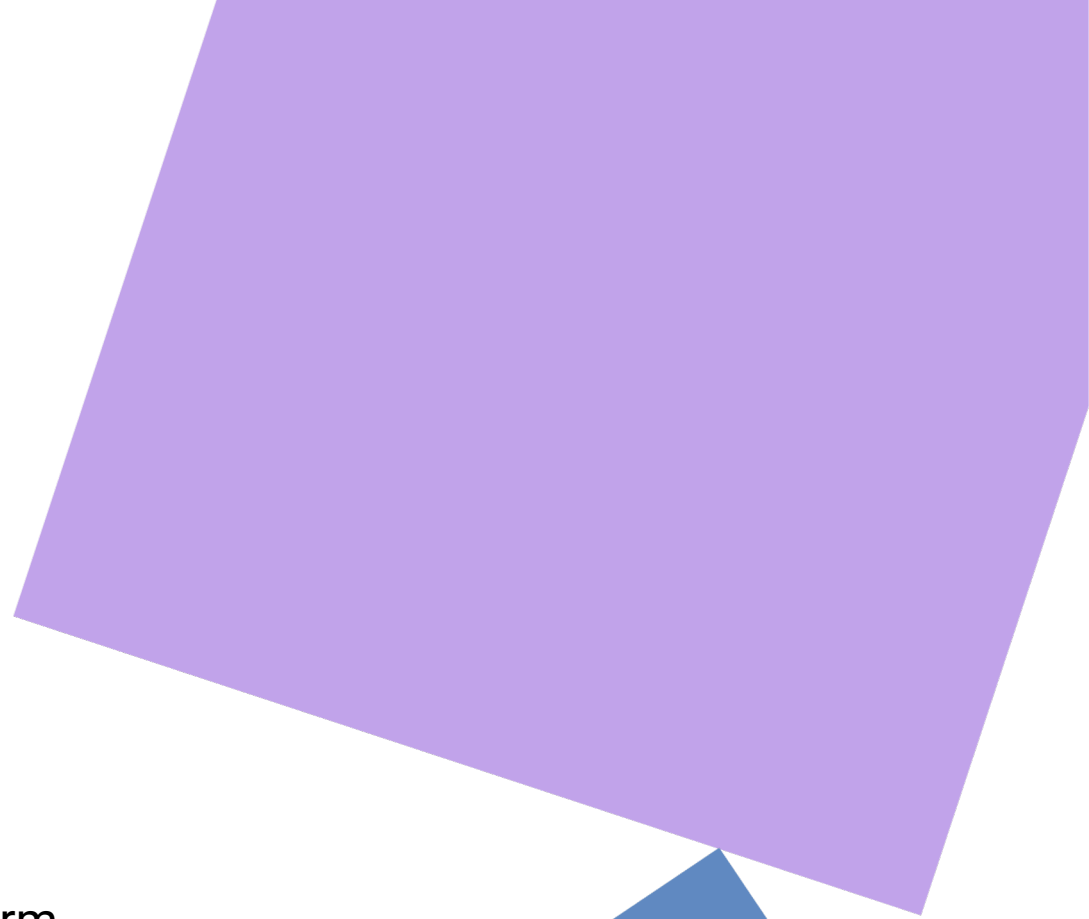
- You will choose your courses from the lists on:  
<https://www.lse.ac.uk/resources/calendar/programmeRegulations/taughtMasters/2023/MScQuantitativeMethodsForRiskManagement.htm>
- Maths: Mathematics of the Black and Scholes Theory, Foundations of Interest Rate and Credit Risk Theory, Topics in Fin Math, Machine Learning in Fin Math
- Stats: Financial Statistics, Machine Learning and Data Mining, Deep Learning, Reinforcement Learning
- Finance: Derivatives, Quantitative Methods for Finance and Risk Analysis
- Theory/PhD preparation (Stats): Probability and Mathematical Statistics I and II



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# Assessment

- You will be exposed to a variety of assessment forms
- Some courses rely on one format, several combine them
- The typical formats are
  - Closed book 2-hour exam in Jan or May
  - Project works (individual or in groups) during or after term
  - Continuous assessment during term





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# Academic support throughout your studies

Academic Mentor – Programme Director

Programme manager

[LSE Life](#): academic workshops

[Language Centre](#)

[Academic Support Librarians](#)

[Digital Skills Lab](#)





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# Getting In Touch

Questions about the Department or the MSc Data Science:

Sarah McManus

MSc Programmes Manager

First point of contact for administration

Email: [Stats-Msc@lse.ac.uk](mailto:Stats-Msc@lse.ac.uk)

Andreas Sojmark

MSc QMRM Programme Director

Academic Mentor

E-mail: [A.Sojmark@lse.ac.uk](mailto:A.Sojmark@lse.ac.uk)

Questions about your application: Graduate Admissions Office

Search 'LSE Graduate Admissions' then go to the Knowledge Base

If your question is not answered, submit an enquiry through the Knowledge Base



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# Questions?

