



Department of
Statistics



LSE Department of Statistics

Promoting excellence in research
and education in statistics and
data science.

MSc Quantitative Methods for Risk Management

Q&A for Offer Holders

The Department of Statistics @ LSE

MSc QMRM at LSE

Run by our research group **Probability in Finance & Insurance**

- **World-class training** in **probabilistic, statistical, and machine learning** methods for **quantitative finance and risk management**.
- **Core part** organised along **three pillars**:
 - Deep understanding of stochastic processes
 - Strong statistical and probabilistic toolkit for quantifying risk
 - Cutting-edge simulation and ML techniques
- **Tailor your degree** with **optional courses**:
 - Wide range of courses across statistics, data science, ML, finance, quantitative finance, and mathematics
 - Three world-class departments at LSE: Statistics, Mathematics, and Finance

MSc QMRM: Programme Components

See more details in the Programme Regulations, accessed via the LSE Calendar.

- Three terms: Autumn (AT), Winter (WT), Spring (ST)
- You will follow **8 courses** (0.5 units) + the **pre-sessional course**
- The pre-sessional is in-person and mandatory:
 - It takes place 2nd week of September
 - Crash course on probability theory for your MSc studies
 - Gets you started on stochastic processes for finance
 - Non-assessed but has a practice exam

MSc QMRM: Programme Components

Core courses

- You will take **3 core courses** and **5 optional courses**.
- The core courses:
 - ST409 **Stochastic Processes** (AT)
 - ST429 **Statistical Methods for Risk Management** (AT)
 - ST433 **Stochastic Simulation, Training and Calibration** (WT)

MSc QMRM: Programme Components

Optional courses — selection opens the week before lectures start

- **Financial Mathematics:** Mathematics of Black–Scholes, Interest Rate and Credit Risk, ML in Financial Mathematics
- **Statistics & ML:** Financial Statistics, Deep Learning, Reinforcement Learning, Machine Learning and Data Mining
- **Finance:** Derivatives, Quantitative Methods for Finance and Risk Analysis
- **Probability:** Probability and Mathematical Statistics I and II
- **Non-assessed:** Research Seminars, Financial Mathematics in Practice
- Full list of courses available here:
<https://www.lse.ac.uk/resources/calendar/programmeRegulations/taughtMasters/2025/MScQuantitativeMethodsForRiskManagement.html>

Assessment

- You will be exposed to a variety of assessment forms
- Some courses rely on a single format
- Several courses combine them
- The typical formats are:
 - Closed-book 2-hour exam (in January or May)
 - Project work during or after term – can be individual or in groups
 - Continuous assessment during term

Academic support throughout your studies

- Academic Mentor and Programme Director (me!)
- MSc Programme Manager (Josiah)

- LSE LIFE — academic workshops
- Language Centre
- Academic Support Librarians
- Digital Skills Lab

Getting in touch

Josiah Phoenix: MSc Programmes Manager

- First point of contact for general queries
- Email: Stats-Msc@lse.ac.uk

Andreas Søjmark — MSc QMRM Programme Director

- Your academic mentor
- Email: 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.

Hello from two current students

- Haiyang Zhu and Soufiane Mellak has kindly agreed to join us
- They will say a few words about their experience on the MSc QMRM so far
- Of course, they are happy to take questions!

Questions?



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