Master’s Programme
Mathematical Finance
Department of Economics
Department of Mathematics and Statistics

Pauline Sanne
University of Konstanz
**Konstanz – in the heart of Europe**

We’re based at the Lake Constance, bordering Switzerland and Austria.
Living in Konstanz

- mid-sized historic town
- very safe environment
- good public transportation
- bike-friendly city
- perfect conditions for water sports and mountaineering
The University of Konstanz

# 1 in Germany in the QS Top 50 Under 50 Ranking

92% of our international students recommend us ISB 2013

1 of 11 Universities of Excellence in Germany
First-class sports activities

Courses in

- Canoeing
- Hiking
- Sailing
- Skiing
- Climbing

Its own Fitness centre
- And much more!
Our University Campus
Situated in a beautiful forest close to the Lake Constance.
What is Mathematical Finance?

- An interdisciplinary master’s programme.
- Two departments are jointly responsible for the programme.
- Deals with the modelling and analysis of financial markets and financial instruments.
- Using sound mathematical and economic approaches.
- Applying mathematical methods to economic questions.
Why study Mathematical Finance in Konstanz?

• Our master’s programme in Konstanz is the only one of its kind.
• Strong research focus from both departments.
• The ideal way to develop further math and eco know-how.
• Broaden your horizons…we expressly recommend that you do a semester abroad and at least a two-month internship!
• The department has an excellent international network and regularly achieves top results in rankings.
What career prospects are there?

Demanding positions above all in the financial sector, e.g. in:

- Banks
- Insurance companies
- Finance departments of industrial firms and service companies
- Regulatory bodies
- Regional and national ministries
- Consulting firms
## Plan of study – Master’s Programme

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Title</th>
<th>Credits</th>
<th>Interdisciplinary Area</th>
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<th>Economics ECTS</th>
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<td>Seminar</td>
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<td>Accounting Theory</td>
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SWS gesamt: 80
Requirements

Mathematics:

Knowledge of analysis, linear algebra, stochastics or numerics (at least 32 ECTS credits), which are in detail:

- Analysis I, 9 ECTS-Credits
- Analysis II, 9 ECTS-Credits
- Analysis III, 9 ECTS-Credits
- Linear Algebra I, 9 ECTS-Credits
- Numerics I, 5 ECTS-Credits
- Stochastics I, 9 ECTS-Credits

Economics:

Knowledge of statistics, econometrics or economics (at least 26 ECTS credits), which are in detail:

- Corporate Finance, 5 ECTS-Credits
- Capital Market Theory, 6 ECTS-Credits
- Statistics II, 6 ECTS-Credits
- Microeconomics I/ Macroeconomics, 9 ECTS-Credits
- Econometrics I, 8 ECTS-Credits
- Accounting, 5 ECTS-Credits
Requirements

English Language Skills:

Evidence of sufficient proficiency in English, provided by one of the following language tests:

- Cambridge Certificate of Proficiency in English or Cambridge Certificate in Advanced English: minimum grade C.
- Test of English as a Foreign Language (TOEFL): at least 80 points (internet-based), 213 points (computer-based) or 550 points (paper-based). Our Institutional Code is 8971 and our Department Code is 84.
- Alternative: proof of one semester’s study in English.

GRE:

For applicants who have obtained their Bachelor’s degree outside of Germany:

The result of the GRE test (Graduate Record Examinations). Our institutional code is 8971 and our department code is 1801.

The GRE test cannot be substituted by the GMAT or by any other test.
Requirements
German Language Skills

For applicants without a German University Entrance Qualification (Abitur): proof of proficiency in German (Several courses, in particular those in maths will be held in German and therefore it is difficult to understand without German knowledge) via one of the following language tests:

- German Language Examination for University Entrance (DSH): at least level 1
- Test for German as a Foreign Language (TestDAF): at least level 3 in all 4 areas.

Equivalent language tests see the following website:
https://www.uni-konstanz.de/en/international-office/study-in-konstanz/degree-studies/german-language-skills/
Please find more information to studying in Germany/Konstanz under following links:

https://www.wiwi.uni-konstanz.de/studium/master-of-science/finanzmathematik/bewerbung/


https://www.uni-konstanz.de/en/study/before-you-study/application-and-enrolment/masters-degree/
Services for international students

Getting started
- Orientation Programme before the start of your first semester
- German Language Programmes before and during each semester
- Prep Courses from the Department of Economics before you start
- Extra tutorials for compulsory modules
- Master’s hut to get to know your fellow students
- Guaranteed student housing in a convenient and safe location. Single rooms in shared apartments or single apartments available.
Any questions?

We’re happy to answer all your questions on the contents and application process of the master’s programme.

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