Master‘s programme in Social and Economic Data Analysis

Alexandra Morris & Angelica-Maria Berreca-Garnica
University of Konstanz
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Konstanz – in the heart of Europe
We’re based at the Lake Constance, bordering Switzerland and Austria.
City of Konstanz
The University of Konstanz

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

1 of 12 Universities of Excellence in Germany

92% of our international students recommend us ISB 2013
Our University Campus
Situated in a beautiful forest close to the Lake Constance.
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 participating Departments before you start
- Master’s hut to get to know your fellow students
- Housing for international students in a convenient and safe location. Single rooms in shared apartments or single apartments available.
- Buddy programme with 2nd semester MSc students
- International Office
- Career Service
Life of a Colombian student

**Beautiful city**
- Bright, colorful and warm in spring
- Amazing snowy sceneries in winter
- Surrounded by the alps
- Free Wi-Fi in the center of the city

**Lots of activities for all likes and tastes**
- Clubs, shops, movie theaters, hot springs
- Great cycling routes
- Swimming in the lake during the warm months
- Skiing in Switzerland during the cold ones

**Easy to travel to other cities**
- Zurich airport just 50 mins. away with routes to most important cities in Europe and Asia
- Train and bus connections to touristic cities in Germany, Switzerland, and Austria
Big university with personalized curriculum

One campus with all the commodities
- Beautiful 24 hour library recently renovated
- Cafeteria buffet-style with low prices for students
- Bus connection to all points in the city
- Free Wi-Fi on campus and on the fitness center
- Computers, printers and scanners available 24/7
- Orientation camp

Flexible and complete Master’s Programme in Social and Economic Data Analysis
- You can choose any lectures and seminars to complement and enhance your background
- Lectures and seminars from 6 different departments
„Knowledge and skills to collect, manage and analyse data on human action and interaction - for future experts in Big Data“

M.Sc. Social and Economic Data Analysis
M.Sc. Programme in Social and Economic Data Analysis: Motivation & Interdisciplinary scope

Motivation

- Big Data: unprecedented availability of data about human behavior and social interactions
- Forecasting of economic / political / public health trends and events
- Support of evidence-based policy-making and management
- Requires competences and skills from several fields
- Interdisciplinary training of data analysts for private and public sector, academia
Interdisciplinary scope

- **Computer science**: system architectures and algorithms
- **Mathematics & statistics**: formal grounds for scripting, statistical modeling and inference
- **Social science methodology**: assessment and correction of data quality issues; processing of unstructured data
- **Substantive fields (economics, sociology, political science, psychology)**: theories and research questions
M.Sc. Programme in Social and Economic Data Analysis: Curriculum

Curriculum

- **Semesters 1 and 2**: foundations of data analysis advanced methods of data analysis
- **Fast track Ph.D. option** at GSDS (A), and generalization (B)
- **Semester 3**: specialization, data analysis project
- **Semester 4**: Master‘s thesis
- **Further information** at the programme‘s website: www.wiwi.uni-konstanz.de/en/study/master-of-science/social-and-economic-data-analysis/curriculum/
M.Sc. Programme in Social and Economic Data Analysis: Curriculum

Foundations of Data Analysis (24 ECTS):

- **Computer Sciences**
  - Introduction to Computation for the Social Sciences
  - Konzepte der Informatik
  - Konzepte der Programmierung
  - Datenbanksysteme
  - Algorithmen und Datenstrukturen

- **Mathematics**
  - Mathe I (Economics)
  - Mathematische Grundlagen der Informatik (Computer and Information Science)
  - Lineare Algebra I (Mathematics and Statistics)
  - etc.
M.Sc. Programme in Social and Economic Data Analysis: Curriculum

Foundations of Data Analysis (24 ECTS):

- **Statistics**
  - Statistik I (Politics and Public Administration)
  - Statistik (Psychology)
  - Statistics I (Economics)
  - Statistik (Sociology)

- **Social-scientific Methods**
  - Econometrics I (Economics)
  - Introduction to Survey Methodology (Politics and Public Administration)
  - Methoden der empirischen Politik- und Verwaltungsforschung (Politics and Public Administration)
  - Empirie: Quantitative Methoden (Sociology)
  - Methoden II (Psychology)
M.Sc. Programme in Social and Economic Data Analysis: Curriculum

Advanced Methods of Data Analysis (36 ECTS):

- Probability Theory and Statistical Inference (Mathematics and Statistics)
- Research Design I (Politics and Public Administration)
- Big Data and Scripting (Computer and Information Science)
- 1 Optional Course
- 2 Seminars

Language of tuition: mostly English
Duration: 4 Semesters
Application deadline: 30th April
M.Sc. Programme in Social and Economic Data Analysis: Target group & admission

Target group

- Students with a B.A. in a social science (or in computer science) and a strong interest in quantitative methods and empirical research

Admission

- 16 students per year
- **Requirements:**
  - above average B.A. degree;
  - min. **three** B.A. courses that cover at least **two** focus areas (mathematics, statistics, computer science, social-scientific methods)
  - Evidence of a sufficient command of English
  - CV and motivation letter
  - Two letters of recommendation from university teachers
  - Results of the GRE test desirable (Graduate Record Examinations)

Tuition fees

- no tuition fees for citizens from EU- and EEA-member states
- 1,500 € per semester for citizens from non EU- and non EEA-states
How to apply

Application deadline: April 30th
(the online application tool will be open for Msc SEDA at the end of March 2018)

1. Find detailed information on our website
   Contact us if you have any questions.

2. Collect and scan all necessary documents.
   A checklist is available on our website.

3. Apply through our online application system
   (scanned application documents are sufficient).

   – wiwi.uni.kn/seda
Why study MSc SEDA?

- A unique, interdisciplinary programme bridging social sciences and computer science
- Big variety of classes for high quality education
- Study with top-notch, international guest researchers
- Small classes allow for close interaction with your lecturers
Why study MSc SEDA?

- Be part in an international and open environment in the heart of Europe
- Enjoy our beautiful countryside: Enjoy swimming or sailing on the Lake Constance, go hiking or skiing in the nearby Black Forest or the Swiss Alps.
- Graduates will be highly employable as data analysts e.g.:
  - in academia
  - in polling firms
  - in market research institutes
  - in online marketing
  - as political advisor
  - as social policy consultant
Any questions?

We’re happy to answer all your questions:

Alexandra Morris
Email: alexandra.morris@uni-konstanz.de
Phone: +49 (0) 7531 88 4494
Skype: dep_economics_uofkonstanz
(please arrange an appointment via email)

Franziska Fobbe
Student Course Guidance & SEDA student
seda.msc@uni-konstanz.de
Thank you!
We look forward to receiving your application