

# Data Science – Das Studienfach

Prof. Dr. Göran Kauermann

Prof. Dr. Thomas Seidl

# Data Science

## Statistik

- Statistical Modelling
- Statistical Reasoning
- Design of Experiments



**Data**

## Informatik

- Computing
- Machine Learning
- Neural Networks

Statistiker fragen:  
*What's going on?*

Informatiker fragen:  
*What happens next?*

# Data Science

## Statistik

- Statistical Modelling
- Statistical Reasoning
- Design of Experiments

## BIG Data

## Informatik

- Computing
- Machine Learning
- Neural Networks

Statistiker fragen:  
*What's going on?*

Informatiker fragen:  
*What happens next?*

# Statisticians are needed today?

The 25 Hottest Skills That Got People Hired in 2014 | Official LinkedIn Blog

blog.linkedin.com/2014/12/17/the-25-hottest-skills-that-got-peopl

Official Blog

## The 25 Hottest Skills That Got People Hired in 2014

Sohan Murthy December 17, 2014

Believe it or not, 2014 is almost over and 2015 is right around the corner. With a new year comes new opportunities, and around this time we at LinkedIn are typically asked the following question: "Who's getting hired and what are they doing?"

To get to an answer, we analyzed the skills and experience data in over 330 million LinkedIn member profiles. If your skills fit one of the categories below, there's a good chance you either started a new job, garnered the interest of a recruiter in the past year, or [won new clients](#).

### The 25 Hottest Skills of 2014 on LinkedIn

- 1 Statistical Analysis and Data Mining
- 2 Middleware and Integration Software
- 3 Storage Systems and Management
- 4 Network and Information Security
- 5 SEO/SEM Marketing

Business Intelligence  
LinkedIn.com  
Mobile Development

Email subscription



# Data Science@LMU

- Statistik und Informatik sind **in einer Fakultät**
- Die LMU bietet ein **interdisziplinäres** Masterprogramm Data Science an, was in **gleichen Teilen** von den Instituten für **Statistik und Informatik** getragen.
- Studierende werden international rekrutiert.

# Elitestudiengang Data Science@LMU

- Erstes rein **englischsprachiges** Data Science Masterprogramm in Deutschland
- Gefördert durch das **Elitenetzwerk Bayern**
- Kleine Kohorten – intensive Betreuung

Elite Network  
of Bavaria



# Curriculum

1st Semester   30 ECTS	2nd Semester   27 - 33 ECTS	3rd Semester   27 - 33 ECTS	4th Semester   30 ECTS
Statistics			Master Thesis and Disputation
Informatics			
Fundamentals of Data Science	Predictive Modelling		
Human Computation and Analytics		Data Science Practical	
	Data Ethics and Data Security		
	Elective Courses		
	Current Research in Data Science		

# Curriculum

1st Semester | 30 ECTS

2nd Semester | 27 - 33 ECTS

3rd Semester | 27 - 33 ECTS

4th Semester | 30 ECTS

Statistics

Informatics

Fundamentals  
of Data Science

Human-Computer Interaction

Predictive Modelling

Data Science Practical

Master Thesis  
and Dissertation

- Alle Module **ausschließlich** für die Data Science Studierenden
- **Individualmodule**, je nach Vorkenntnisse der einzelnen Studierenden
- Veranstaltungen zu **Datensicherheit und ethischen** Aspekten von Data Science
- Enge Kooperation mit **Industrie und Wirtschaft**



## Besondere Angebote

- Data Science Summer School  
Datensicherheit/-vertraulichkeit, ethische Fragen
- Data Science Focused Tutorials  
Biosciences, E-commerce, Netzwerke etc.
- Data Science meets Data Practice  
Vortragsreihe Industrie und Wirtschaft
- Data Science Festival „DataFest“  
Data-Hackathon (nächstes Wochenende!)



## Sprecher

**Prof. Dr. Göran Kauermann (Statistik)**

goeran.kauermann@stat.uni-muenchen.de

**Prof. Dr. Thomas Seidl (Informatik)**

thomas.seidl@dbs.ifi.lmu.de

## Koordinatorin

**Dr. Constanze H. Schmaling**

m-datascience@lmu.de

# Weitere Aktivitäten Data Science@LMU

- Zertifiziertes Weiterbildungsprogramm in Data Science  
[www.datascience-certificate.de](http://www.datascience-certificate.de)
- Data Science Lab  
<http://dsl.ifi.lmu.de/cms/>
- Forschungskoperationen  
Helmholtz-Zentrum, TUM, LRZ, ....
- Industriekooperationen

[www.datascience-munich.de](http://www.datascience-munich.de)