



## INFORMATION

### ■ Application deadlines:

Winter term 2019/2020: 18th August 2019

Summer term 2020: 24th February 2020 (subject to change)

### ■ Fee (including course and examination fee):

Regular: 6500 €

Reduced: 5200 € for applicants from social, scientific and cultural facilities

### ■ Questions concerning organization and registration:

LMU Unit for Professional Training

Phone: +49 89 2180 72244

E-Mail: [weiterbildung@lmu.de](mailto:weiterbildung@lmu.de)

### ■ Questions concerning subject-specific content and curriculum:

Dr. Giuseppe Casalicchio

LMU – Department of Statistics, CEO of Essential Data Science Training GmbH

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or visit [www.datascience-certificate.de](http://www.datascience-certificate.de)



# Data Science Certificate Program

## APPLY NOW!



## SPEAKERS

- Prof. Dr. Bernd Bischl ■ Dr. Giuseppe Casalicchio ■ Prof. Dr. Göran Kauermann  
(Department of Statistics, LMU Munich)
- Dr. Nils gentschen Felde ■ Prof. Dr. Dieter Kranzlmüller ■ Prof. Dr. Peer Kröger  
(Institute of Informatics, LMU Munich)
- Markus Wiedemann, M.Sc.  
(Leibnitz Supercomputing Centre, Bavarian Academy of Sciences and Humanities)



## PROGRAM DESCRIPTION

The Professional Data Science Certificate Program is an extra-occupational training at the LMU, Munich. Its purpose is to communicate adequate knowledge of the theory and methods of Data Science. With this background we are addressing the needs of professionals in their everyday work. The program orients itself along the following guidelines:

- Introduction to theoretical and practical concepts in the field of Data Science
- Transfer of solid expertise in data management, predictive modelling, deep learning, visualization and much more
- Training of analytical and strategic skills

The Data Science Certificate Program is generally intended for anyone working in any area of the working or educational life. In order to participate, either a university degree with focus in mathematics, statistics, computer science or related disciplines and at least one year of work experience is required or any kind of university degree and at least three years of work experience in an area relevant to the Data Science Certificate Program.

With an estimated workload of 200 hours (including time for preparation, follow-up work and preparation for the exam) the Data Science Certificate Program is developed as a one semester course taking place twice a year. It is spread over nine fridays of teaching and one exam day. You will receive a LMU-Certificate if you pass the exam.



## AGENDA

Day	Topic	Winter term 2019/20	Summer term 2020 (subject to change)
0	R Crash Course*	17.10.2019	23.04.2020
1	First steps in Data Analysis	18.10.2019	24.04.2020
2	Statistical Foundations	25.10.2019	08.05.2020
3	Causality and Causation & Visualization	08.11.2019	15.05.2020
4	Data Management	15.11.2019	29.05.2020
5	Predictive Modelling 1	22.11.2019	19.06.2020
6	Predictive Modelling 2 & Deep Learning	29.11.2019	26.06.2020
7	Unsupervised Methods	13.12.2019	03.07.2020
8	Tools and Concepts for Large Data Sets	10.01.2020	10.07.2020
9	Data Privacy, Security & Visualization	17.01.2020	17.07.2020
10	Day of the Exam	24.01.2020	24.07.2020

The lectures are from 9 am to 5 pm with 4 x 90 minute time-slots for lectures and practical use cases. Two coffee breaks and a lunch break are included.

\*Separate booking required. For more information please visit [www.datascience-certificate.de](http://www.datascience-certificate.de)