WHAT YOU WILL LEARN

By completing the course you will be able to set up basic Big Data Analysis end-to-end; from retrieving and cleaning the data, to establishing the information level and extracting patterns and finding outliers and to curate the necessary data.

You will get acquainted with a number of advanced tools like: Data cleaning, statistical methods for very large datasets, data stream analysis and finding patterns and outliers in Big Data, collecting data from instruments and devices (i.e. Internet-of-Things) and systems for Big Data Analysis: Common systems for BDA; Hadoop, PyDisco, etc., and hardware systems design for efficient BDA.

Tools/methods introduced:

- Selected machine learning algorithms for large-scale data
- Random forests and large-scale exact nearest neighbour search
- Data curation: How to select data for long time curation, systems, techniques and standards for data curation?

We will be working with several programming tools, however all techniques that are covered are easily implemented with all standard data-analysis languages; Python, R, etc.

"Very interesting, well organized, great teachers. I learned a lot! Thank you for a great course!"

Agnете Larsen, Head of Section, Danish Business Authority
PARTICIPANTS
The course is strictly focused on Big Data Analysis, thus a background in statistics and/or conventional data analysis is assumed. This course assumes an education at least at a Bachelor level and/or several years of data analysis experience.

COURSE DATES
5 days, 14 – 18 August 2017, 9:00 – 16:30 at the University of Copenhagen, Frederiksberg Campus.

COURSE DIRECTOR
Troels C. Petersen, Associate Professor, Particle Physics, Niels Bohr Institute, University of Copenhagen

OTHER COURSE TEACHERS
Brian Vinter, eScience, Niels Bohr Institute, University of Copenhagen
Joachim Mathiesen, Associate Professor, Biocomplexity, Niels Bohr Institute, University of Copenhagen

COURSE FEE
EUR 2,600/DKK 19,000 excl. Danish VAT. Fee includes teaching, course materials, all meals during the course.

"I found the course to be of very high quality theoretically. The theoretical concepts covered were very detailed & relevant."
Anup Singh, General Manager, Maersk Group, 2016.

"I really liked the atmosphere at the campus – this is fantastic – and it worked out to give an extra dimension on the course"
Former participant on a Copenhagen Summer University course

OTHER RELATED COURSES:
21 - 25 August 2017, University of Copenhagen
Deep Learning for Data Analytics

14 - 18 August 2017, University of Copenhagen
Data Science with R

FOR MORE INFORMATION AND REGISTRATION:
copenhagensummeruniversity.ku.dk