

## **Data Science courses developed with the kind support of the German Ministry of Education and Research**

### *Introduction to Real World Data Management*

4 ECTS

Alexandru Cernat, University of Manchester

### *Modern Workflows in Data Science*

4 ECTS

Alexandru Cernat, University of Manchester

### *Ethical Considerations for Data Science Research*

2 ECTS

Jessica Vitak, University of Maryland

### *Introduction to Record Linkage with Big Data Applications*

Extension from 2 to 4 ECTS

Manfred Antoni, IAB

Stefan Bender, Bundesbank

Christian Borgs, University of Duisburg-Essen

Joseph W. Sakshaug, IAB

### *Experimental Design for Surveys*

4 ECTS

Roger Tourangeau, Westat

### *Web Scraping and APIs*

2 ECTS

Simon Munzert, Hertie School of Governance Berlin

### *Advanced Topics in Official Statistics*

2 ECTS

Hannal Brenzel, destatis

Piet Daas, Statistics Netherland

Marco Puts, Statistics Netherlands

### *SURV642 Project Consulting course*

6 ECTS

Helmut Küchenhoff, Ludwig-Maximilians-Universität Munich

## **Data Science courses developed in cooperation with the University of Maryland**

### *Introduction to Python and SQL*

2 ECTS

Brian Kim, University of Maryland and University of Michigan

*Introduction to R*

0 ECTS

Heide Marie Jackson, University of Maryland

*Introduction to Data Visualization*

2 ECTS

Richard Traummüller, University of Mannheim

*Computer Based Content Analysis I (Theory)*

2 ECTS

Heiner Stuckenschmidt, University of Mannheim

Christoph Kilian Theil, University of Mannheim

*Computer Based Content Analysis II (Practical)*

2 ECTS

Heiner Stuckenschmidt, University of Mannheim

Christoph Kilian Theil, University of Mannheim

*Machine Learning II*

4 ECTS

Trent D. Buskirk, Bowling Green State University Ohio

Christoph Kern, University of Mannheim

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