

International Program in Survey and Data Science (IPSDS) Course development and course instruction 2/2018 to 12/2020

Course development

Courses developed with the kind support of the German Ministry of Education and Research

Advanced Topics in Official Statistics

2 ECTS

Hannal Brenzel, destatis

Piet Daas, Statistics Netherland

Marco Puts, Statistics Netherlands

Date of publication: December 30, 2020

Ethical Considerations for Data Science Research

2 ECTS

Jessica Vitak, University of Maryland

Date of publication: December 30, 2020

Experimental Design for Surveys

4 ECTS

Roger Tourangeau, Westat

Date of publication: October 25, 2019

Introduction to Official Statistics

2 ECTS

Walter Radermacher, Federation of European National Statistics Societies FENStatS

Date of publication: December 30, 2020

Introduction to Real World Data Management

4 ECTS

Alexandru Cernat, University of Manchester

Date of publication: September 4, 2019

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

Date of publication: December 30, 2020



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and Research



Modern Workflows in Data Science

4 ECTS

Alexandru Cernat, University of Manchester

Date of publication: December 30, 2020

Project Consulting Course

12 ECTS

Helmut Küchenhoff, Ludwig-Maximilian-University Munich

Date of publication: December 30, 2020

Usability Testing for Survey Research

2 ECTS

Emily Geisen, Qualtrics

Jennifer Romano-Bergstrom, Google

Date of publication: August 1st, 2019

The course videos developed with the funding of the German Ministry of Education and Research are published online (<https://www.elms.umd.edu/>) and are available for 6 months after publication.

Username: ipsds.talks@gmail.com

Password: 12jBW8x.09#

Courses developed in cooperation with the University of Maryland

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

Generalized Linear Models

4 ECTS

Thomas Gautschi, University of Mannheim

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

Machine Learning II

4 ECTS

Trent D. Buskirk, Bowling Green State University Ohio

Christoph Kern, University of Mannheim

Privacy Law

2 ECTS

Thomas Fetzer, University of Mannheim

Review of Statistical Concepts

6 ECTS

Brian Kim, University of Maryland and University of Michigan

Courses developed in cooperation with the University of Michigan

Survey Design in International Contexts

2 ECTS

Zeina Mneimneh, University of Michigan

Course developed in cooperation with Google

Web Survey Methodology and Online Panels with Practical Survey Programing

4 ECTS

Mario Callegaro, Google

Course instruction

2017/2018 Winter Term

Introduction to Record Linkage with Big Data Applications

2 ECTS

Manfred Antoni, Institute for Employment Research

Stefan Bender, Deutsche Bundesbank

Joseph Sakshaug, Institute for Employment Research

Usability Testing for Survey Research

2 ECTS

Emily Geisen, Qualtrics

Jennifer Romano-Bergstrom, Google

2018 Spring Term

Data Confidentiality and Statistical Disclosure Control

4 ECTS

Jörg Drechsler, Institute for Employment Research

Introduction to Machine Learning and Big Data (ML I)

2 ECTS

Trent Buskirk, Bowling Green State University, Ohio

Frauke Kreuter, University of Mannheim

In cooperation with JPSM/UMD

Web Scraping and APIs

2 ECTS

Simon Munzert, Hertie School of Governance Berlin

Introduction to Data Visualization

2 ECTS

Richard Traunmüller, University of Mannheim

In cooperation with JPSM/UMD

Questionnaire Design

4 ECTS

Florian Keusch, University of Mannheim

In cooperation with JPSM/UMD

2018 Summer Term

Introduction to Python and SQL

2 ECTS

Brian Kim, University of Maryland and University of Michigan

In cooperation with JPSM/UMD

Introduction to Real World Data Management

4 ECTS

Alexandru Cernat, The University of Manchester

Review of Statistical Concepts

6 ECTS

Brian Kim, University of Maryland and University of Michigan

In cooperation with JPSM/UMD

2018 Fall Term

Fundamentals of Survey and Data Science

6 ECTS

Carolina de los Angeles Casas-Cordero Valencia, Pontifical Catholic University of Chile

In cooperation with Catholic University of Chile

Data Collection Methods

6 ECTS

Christopher Antoun, University of Maryland

In cooperation with JPSM/UMD

Sampling I

4 ECTS

Raphael Nishimura, University of Maryland

Experimental Design For Surveys

4 ECTS

Roger Tourangeau, Westat

Introduction to Python and SQL

2 ECTS

Brian Kim, University of Maryland and University of Michigan

In cooperation with JPSM/UMD

Privacy Law

2 ECTS

Thomas Fetzer, University of Mannheim

In cooperation with JPSM/UMD

Item Nonresponse and Imputation

2 ECTS

Jörg Drechsler, Institute for Employment Research

Project Consulting Course

12 ECTS

Helmut Küchenhoff, Ludwig-Maximilians-Universität Munich

2018/2019 Winter Term

Computer Based Content Analysis I (Theory)

2 ECTS

Heiner Stuckenschmidt, University of Mannhei,

Christoph Kilian Theil, University of Mannheim

In cooperation with JPSM/UMD

Computer Based Content Analysis II (Practical)

2 ECTS

Heiner Stuckenschmidt, University of Mannheim

Christoph Kilian Theil, University of Mannheim

In cooperation with JPSM/UMD

Analysis of Complex Survey Data

4 ECTS

Benjamin M. Reist, University of Maryland and University of Michigan

In cooperation with JPSM/UMD

Multiple Imputation – Why and How

2 ECTS

Jörg Drechsler, Institute for Employment Research

Web Survey Methodology and Online Panels with practical survey programming

4 ECTS

Mario Callegaro, Google

In cooperation with Google/JPSM/UMD

Introduction to Record Linkage with Big Data Applications

2 ECTS

Manfred Antoni, Institute for Employment Research

Stefan Bender, Deutsche Bundesbank

Joseph Sakshaug, Institute for Employment Research

Usability Testing for Survey Research

2 ECTS

Emily Geisen, Qualtrics

Jennifer Romano-Bergstrom, Google

2019 Spring Term

Fundamentals of Survey and Data Science

6 ECTS

Carolina de los Angeles Casas-Cordero Valencia, Pontifical Catholic University of Chile

In cooperation with Catholic University of Chile

Generalized Linear Models

4 ECTS

Thomas Gautschi, University of Mannheim

In cooperation with JPSM/UMD

Data Confidentiality and Statistical Disclosure Control

4 ECTS

Jörg Drechsler, Institute for Employment Research

In cooperation with MBS

Questionnaire Design

4 ECTS

Gina K. Walejko, U.S. Census Bureau

Practical Tools for Sampling Part I

4 ECTS

Jill Dever, RTI

In cooperation with JPSM/UMD

Introduction to Machine Learning and Big Data (ML I)

2 ECTS

Trent Buskirk, Bowling Green State University, Ohio

Frauke Kreuter, University of Mannheim

In cooperation with JPSM/UMD

Introduction to Data Visualization

2 ECTS

Richard Traunmüller, University of Mannheim

In cooperation with JPSM/UMD

Web Scraping and APIs

2 ECTS

Simon Munzert, Hertie School of Governance Berlin

In cooperation with MBS

2019 Summer Term

Review of Statistical Concepts

6 ECTS

Brian Kim, University of Maryland and University of Michigan

In cooperation with JPSM/UMD

Survey Design and Implementation in International Contexts

2 ECTS

Zeina Mneimneh, University of Maryland and University of Michigan

Introduction to Real World Data Management

4 ECTS

Alexandru Cernat, The University of Manchester

Introduction to Python and SQL

2 ECTS

Brian Kim, University of Maryland and University of Michigan

In cooperation with JPSM/UMD

2019 Fall Term

Experimental Design For Surveys

4 ECTS

Ashley Amaya, RTI

Fundamentals of Survey and Data Science

6 ECTS

Alexander Wenz, University of Mannheim

In cooperation with JPSM/UMD

Sampling I

4 ECTS

Raphael Nishimura, University of Maryland

Introduction to Python and SQL

2 ECTS

Brian Kim, University of Maryland and University of Michigan

In cooperation with JPSM/UMD

Practical Tools (Part II) for Survey Weighting
2 ECTS
Jill Dever, RTI

Privacy Law
2 ECTS
Thomas Fetzner, University of Mannheim
In cooperation with JPSM/UMD

Item Nonresponse and Imputation
2 ECTS
Jörg Drechsler, Institute for Employment Research
In cooperation with MBS

Computer Based Content Analysis I (Theory)
2 ECTS
Christoph Kilian Theil, University of Mannheim
In cooperation with JPSM/UMD

2020 Spring Term

Project Consulting course
6 ECTS
Helmut Küchenhoff, Ludwig-Maximilians-Universität Munich

Questionnaire Design
4 ECTS
Gina K. Walejko, U.S. Census Bureau

Web Survey Methodology
4 ECTS
Mario Callegaro, Google & Vlad Achimescu, University of Mannheim
In cooperation with Google/JPSM/UMD

Computer-Based Content Analysis II
2 ECTS
Christoph Kilian Theil, University of Mannheim
In cooperation with JPSM/UMD

Introduction to Machine Learning and Big Data
2 ECTS
Frauke Kreuter, University of Mannheim & Trent Buskirk, Bowling Green State
University, Ohio
In cooperation with JPSM/UMD

Generalized Linear Models

4 ECTS

Thomas Gautschi, University of Mannheim

In cooperation with JPSM/UMD

Introduction to Data Visualization

2 ECTS

Richard Traunmüller, University of Mannheim

In cooperation with JPSM/UMD

2020 Summer Term

Introduction to Real World Data Management

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Alexandru Cernat, University of Manchester

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Modern Workflows in Data Science

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Introduction to Python/SQL

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Stefan Bender, Deutsche Bundesbank

Joseph Sakshaug, Institute for Employment Research

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Christoph Kern, University of Mannheim

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Ben Reist, NASA

In cooperation with JPSM/UMD

2020 Fall Term

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