

Coordination & Funding





SPONSORED BY THE



Federal Ministry of Education and Research



The project on which this report is based was promoted with funds from the Federal Ministry of Education and Research under the reference number [16OH22064]. Responsibility for the contents of this publication lies with the author. International Faculty from Partner Universities









The University of Manchester











International Faculty from the Industry



facebook.







Institute for Employment Research

The Research Institute of the Federal Employment Agency











Data Output/Access Data Analysis Data Curation/Storage Data Generating Process **Research Question**

Learn how to communicate results and distribute and store your data

Learn a variety of analysis methods suited for different data types

Learn how to curate and manage data

Understand how to collect data yourself, and how data are generated through administrative and other processes.

Learn how to formulate your research goal and which data are best suited to achieve it.



All courses 2019/2020

Research Question

Fundamentals of Survey and Data Science

Data Generating Process

Data Collection Methods Experimental Design For Surveys Questionnaire Design Sampling Theory Usability Testing for Survey Research Web Scraping and API Web Survey Methodology

Data Curation/Storage

Introduction to Python and SQL Introduction to Real World Data Management Introduction to Record Linkage with Big Data Applications

Data Analysis

Analysis of Complex Survey Data Big Data and Machine Learning Computer-Based Content Analysis I (Theory) & II (Practical Project) Generalized Linear Models Introduction to Small Area Estimation Item Nonresponse and Imputation Measurement Error Models Multiple Imputation – Why and How Practical Tools for Sampling Part I Project Consulting Course Usability Testing for Survey Research

Data Output/Access

Data Confidentiality and Statistical Disclosure Control Introduction to Data Visualization Privacy Law



Flexible & engaging online learning environment

- Online learning environment accessible from anywhere in the world (taught in English)
- Small virtual classroom with a mix of synchronous & asynchronous learning
- Pre-recorded lectures split into small video units
- Required readings and (bi)weekly assignments
- Discussion forums
- Weekly online meetings
- On-site networking activities with fellow students from five continents
- Wide variety of options: from individual courses or course sequences to a modular program





8-10h per week





Corporate Partnership Possibilities

Join individual courses that start in March 2019

Research Question

Fundamentals in Survey & Data Science

Data Generating Process

Questionnaire Design

Web Scraping & API

Data Analysis

Big Data & Machine Learning Generalized Linear Models Measurement Error Models Practical Tools for Sampling Part I

Data Output/Access

Data Confidentiality & Statistical Disclosure Control

Introduction to Data Visualization



Connect@IPSDS



2-Day event: May 31st /June 1st

- Yearly networking event
- Day1: create a community within IPSDS students
- Day2: open to audience interested in data science.

How can corporate partners contribute?

- Present a case study
- Engage as speaker
- Host a workshop/tutorial

WiDS@IPSDS



1-Day event: March 25th

- Conference following Stanford's tradition
- Inspire and educate data scientists worldwide
- Support women in the field

How can corporate partners contribute?

- Introduce your career, research and specific projects in the Data Science field
- Take part in career panel & discussion groups

DataFest



3-Day event: May 3rd - 5th

• Data analysis competition where teams of up to five students attack a large, complex, and surprise dataset over a weekend

How can corporate partners contribute?

- Sponsor the event
- Meet talents @ the Career Fair (May 4th)

Thank you for your attention!

survey-data-science.net