



**UBremen
Research
Alliance**

Data Train

Training in Research Data Management
and Data Science

Given the massive demand for qualified co-workers in **research data management and data science**, the [U Bremen Research Alliance](#) together with the Federal State of Bremen initiated this **cross-domain education program for doctoral candidates**. Data Train intends to strengthen competences in data science, research data management and data literacy.

Kick-off event, 3rd March 21 at 3-5 pm

Doctoral candidates from the member institutions of the U Bremen Research Alliance are cordially invited to take part in our pilot-phase starting in March 2021. You will receive further information about Data Train, its concept, and insights into the preliminary curriculum for 2021 in our talks.

Data Train – Towards a cross-domain Education Program on Research Data Management and Data Science

Prof. Dr. Iris Pigeot (BIPS), Dr. Tanja Hörner

The Intersection of Data Science and Data Stewardship

Dr. Lena Steinmann, Prof. Dr. Rolf Drechsler (DSC)

Data Management of the MOSAic Expedition

Prof. Dr. Frank Oliver Glöckner (AWI)

This event is open for everybody who is interested (all status groups). Please register via our [Data Train website](#).

We are looking forward to welcoming you at the virtual Kick-off event!



STARTER TRACK

Start in March 2021

Wed	10.03. 10-12 am	Data science & big data Björn Tings (DLR)
Wed	17.03. 10-12 am	Philosophical reflections on data science Prof. Dr. Dr. Norman Sieroka (UB, F9)
Wed	14.04. 9-12 am	Data & information management Prof. Dr. Frank Oliver Glöckner (AWI) & Dr. Ivaylo Kostadinov (GFBio e.V.)
Wed	21.04. 2-4 pm	Data protection & licenses Prof. Dr. Benedikt Buchner, Dr. Dennis-Kenji Kipker (UB, F6)
Tues	27.04. 2-4 pm	Managing confidential data Dr. Julia Gottschall, Dr. Martin Dörenkämper (Fraunhofer IWES)
Thur	06.05. 9-12 am	Managing qualitative data Prof. Dr. Betina Holstein, Dr. Jan-Ocko Heuer (UB, F8)
Mon	10.05. 10-12 am	Statistical thinking Prof. Dr. Iris Pigeot (BIPS)
Tues	18.05. 9-12 am	Asking the right research questions in data science Prof. Dr. Vanessa Didelez (BIPS)
Wed	02.06. 10-12 am	About the meaningfulness of data Prof. Dr. Hans-Christian Waldmann (UB, F11)
Tues	08.06. 10-12 am	Computer science basics Prof. Dr. Rolf Drechsler (DSC)
Wed	16.06. 10-12 am	Overview about programming languages Prof. Dr. Christoph Lüth (DFKI)
Tues	22.06. 10-12 am	Cryptography basics Prof. Dr. Dieter Hutter (DFKI)
Tues	29.06. 10-12 am	Security & privacy Prof. Dr. Dieter Hutter (DFKI)

Open online overview lectures

OPERATOR TRACKS

hands-on workshops (2-3 days)

DATA STEWARD TRACK

Start in July 2021

Getting started with R
Dr. Christian Fieberg (UB, F7)

Erste Schritte in MATLAB
Dr. Christian Fieberg (UB, F7)

Python
Dr. Nikolay Koldunov (AWI)

Tools for FAIR data handling
Prof. Dr. Frank Oliver Glöckner (AWI),
Dr. Ivaylo Kostadinov (GFBio e.V.)

Versioning
Prof. Dr. Frank Oliver Glöckner (AWI),
Dr. Ivaylo Kostadinov (GFBio e.V.)

Reproducibility in science – How and why?
Dr. Arjun Chennu (ZMT)

Data preparation
Prof. Dr. Betina Holstein,
Dr. Jan-Ocko Heuer (UB, F8),
Dr. Nikolay Koldunov (AWI),
Dr. Bianca Kollhorst (BIPS),
James Imber, Karl Kortum (DLR)

Data base skills
Prof. Dr. Sebastian Maneth (UB, F3)

Data provisioning
Prof. Dr. Kristina Klein (UB, F7),
Dr. Brenner Silva (AWI)

DATA SCIENTIST TRACK

Start in October 2021

Quantitative analyses
Prof. Dr. Thorsten Dickhaus (UB, F3)

Causal learning
Prof. Dr. Vanessa Didelez (BIPS)

Machine learning
Prof. Dr. Marvin Wright (BIPS)

Deep learning
Prof. Dr. Peter Maas (UB, F3)

Evaluation of ML/AI algorithms
Prof. Dr. Werner Brannath (UB, F3),
Dr. Max Westphal (Fraunhofer MEVIS)

Analyses of qualitative data & mixed methods
Prof. Dr. Betina Holstein,
Dr. Jan-Ocko Heuer (UB, F8)

Visualisation techniques
Prof. Dr. Dr. Norman Sieroka (UB, F9),
Dr. Antonie Haas (AWI)

Mapping
Dr. Antonie Haas (AWI)

Dates for the Operator Tracks are coming soon.
Announcements and registration via our website.

<https://uni-bremen.de/data-train>

Dr. Tanja Hörner
Data Train Coordinator

(+49) 421-218 56788

data-train@vw.uni-bremen.de