

# ErUM-Data-Hub

## The Networking and Transfer Office serving Digital Transformation in Research on Universe and Matter in Germany

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### ErUM-Data

ErUM-Data is a German funding plan to promote the digital transformation in the research fields universe and matter (ErUM). It is funded by the German government (BMBF) (120 M € for 10 y).

The gained knowledge will play a key role in many future (day-to-day) applications: Research, AI, medicine,... In total 20.000 scientists are part of the ErUM-Communities.

💡 ErUM = Erforschung von Universum & Materie

Central Office to help realizing these goals:  
**ErUM-Data-Hub**

### Key Goals

Digital Competencies

Networking

Transfer & Communication

### The ErUM-Data-Hub Project

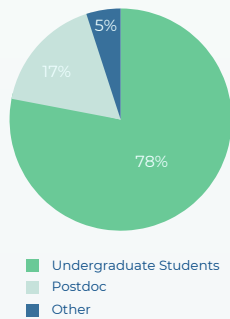
- founded in 2022
- helps to facilitate the ErUM-Data funding plan
- team of 6 (project lead, team lead, scientific advisors, technical support, science communication)
- based in Aachen



### Deep-Learning-Schools

#### Basic/Advanced

- Audience: PhD Students
- 4-5 days @hotel
- ca. 30-50 participants
- 4 Lectures + Tutorials (90`)
- Group Challenge
- 3x year (+2 in 2024)

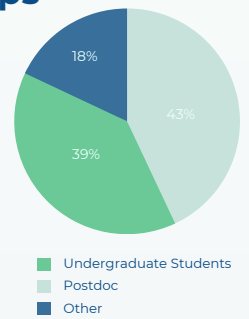


➔ Training students to **use** Deep Learning

### Train-the-Trainer Workshops

#### Basic/Advanced

- Audience: Post Docs, Professors,...
- 2 days @university
- ca. 30 participants
- 4 Lectures + Tutorials
- 2x year



➔ Training lecturers to **teach** Deep Learning

Digital Competencies

~400 participants; new topics already envisioned

### Transfer through Workshops

- Transfer knowledge between communities
- Isolate issues that are important to communities

#### ErUM - internal

How do next-gen analyses environments look like?

How do experiments handle (big) data?

#### ErUM ↔ Industry

How to do sustainable computing?

How is AI used in Industry?

➔ Workshops (with peer-reviewed strategy papers)

### Workshop Overview

#### Research

Big Data Analytics

Research Data Management

User Interfaces

Conceptual Advances in Deep Learning

Sustainability in Computing

#### Industry

Hannover Fair

Lively discussions with broad public

### Find out more

[www.erumdatahub.de](http://www.erumdatahub.de)

[erumdatahub.de/blog](http://erumdatahub.de/blog) (Blog)

@ErUMDataHUB

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### Why you should care

- Gained knowledge will be brought into physics experiments
- Many new job opportunities
- Established network

GEFÖRDERT VOM

