

# ErUM-Data-Hub Report 2023

DIG-UM Annual Meeting

11.12.2023

Martin Erdmann, Peter Fackeldey, Benjamin Fischer, Ulla Lardinoix,  
Judith Steinfeld, Angela Warkentin (Presenting)

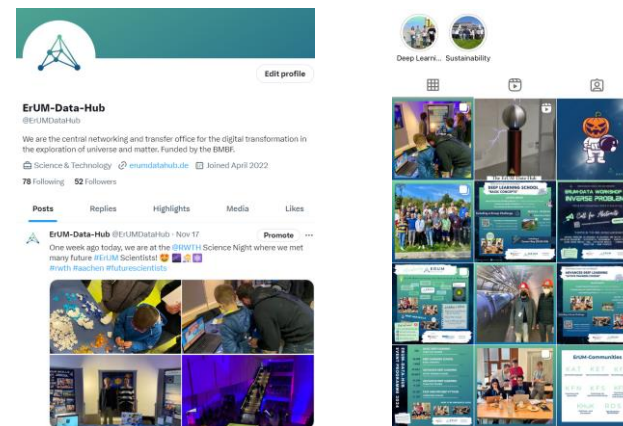
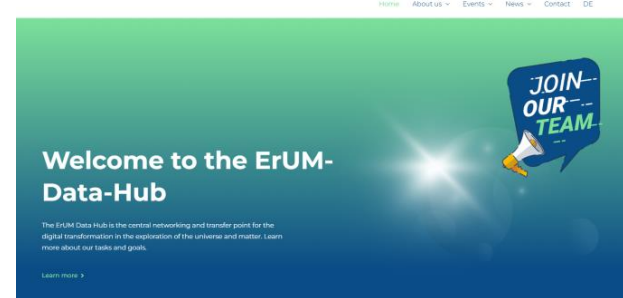


# The second ErUM-Data-Hub year: expansion, growth and strong relationships

## A growing Team

<b>Univ. Prof. Dr. Martin Erdmann</b> Projektleitung	<b>Angela Warkentin</b> Teamleitung
<b>Peter Fackeldey</b> Wissenschaftlicher Referent	<b>Benjamin Fischer</b> Technischer Support
<b>Stefan Fröse</b> Wissenschaftlicher Referent	<b>Judith Steinfeld</b> Wissenschaftskommunikation
<b>Ulla Lardinois</b> Verwaltung	<b>Join us</b> Unser Team wächst: <a href="#">jetzt bewerben!</a>

## New communication channels



## Building on successful experiences...

### Workshops & Schools



## ... and gaining new ones

### Hannover-Messe



### First international Talk (CHEP)

### Poster Sessions



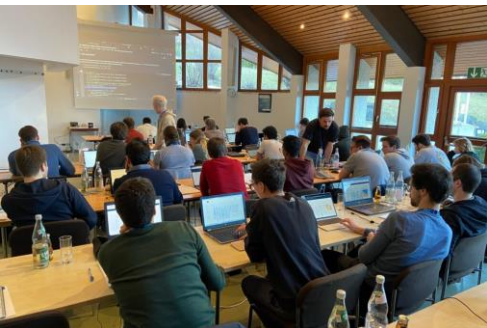
# Disseminating digital competencies to a broad ErUM audience

## 2022

1. Deep Learning Train-the-Trainer Workshop „Basic Concepts“
2. Deep Learning Train-the-Trainer Workshop „Advanced Concepts“
3. Deep Learning School „Basic Concepts“
4. Active Training Course „Advanced Deep Learning“
5. Conceptual Advances in Deep Learning for Research in ErUM

**Aachen, Wuppertal, Meinerzhagen, Wiehl**

**175 ErUM-Researchers reached**



## 2023

1. **Deep Learning Train-the-Trainer Workshop „Basic Concepts“**
2. **Deep Learning Train-the-Trainer Workshop „Advanced Concepts“**
3. Deep Learning School „Basic Concepts“ - Winter School
4. Deep Learning School „Basic Concepts“ - Summer School
5. Active Training Course „Advanced Deep Learning“
6. **ErUM-Data Sustainability Workshop (*Paper to be published*)**
7. **ErUM-Data Workshop on Inverse Problems**
8. Research Data Management (DIG-UM Workshop)
9. Big Data Analytics (DIG-UM Workshop)
10. Next Generation Environment for Interoperable Data Analysis (DIG-UM Workshop)

**München, Dortmund, Meinerzhagen, Bonn, Berlin, Hamburg**

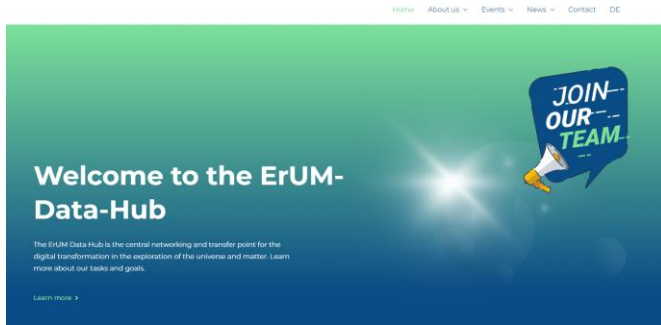
**346 ErUM-Researchers reached**

# Target group-oriented program, focused on practical elements



# Providing high-quality contents for ErUM Scientists

Launching in February 2024:  
The ErUM-Data-Hub Podcast



[erumdatahub.de](https://erumdatahub.de)

Aimed at ErUM communities and the interested public

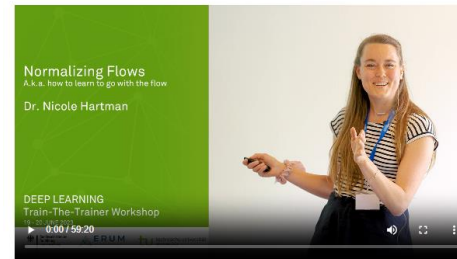
- General Information
- ErUM, DIG-UM
- Events & Documentation
- Contact, Links & Partner
- **Videomaterials**



## Deep Learning Train-the-Trainer Workshop "Advanced Concepts"

Am 19. und 20. Juni 2023 luden DIG-UM und der ErUM-Data-Hub zum zweiten Mal zum Deep Learning Train-the-Trainer Workshop "Advanced Concepts" ein. Der diesjährige Workshop fand an der TU Dortmund statt und beinhaltete 4 spannende Vorträge von einem herausragenden Speaker\*innen-Team zu den Themen Graph Neural Networks (Rasmus Ørskov, TUM), Autoencoder (Thorben Finke, RWTH Aachen University), Normalizing Flows (Dr. Nicole Hartman, TUM) und Diffusion Models (Dr. Jakob Knollmüller, TUM).

Indico



01.

### Normalizing Flows

Lecture by Dr. Nicole Hartman

Slides >

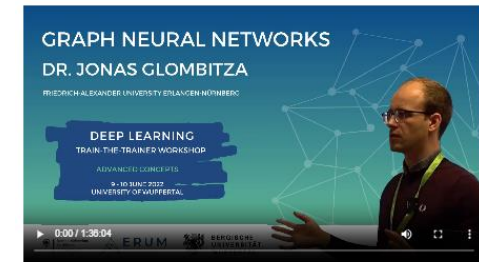


02.

### Autoencoder

Lecture by Thorben Finke.

Slides >



# Looking forward to an eventful 2024

- Challenging and exciting event program
  - **New Contents:** Computing, Tooling, Career Development, Sustainability & Deep Learning
  - **New Concepts:** Online Software Workshop
  - **First international cooperation:** bringing PyHEP.dev to Aachen
- 2<sup>nd</sup> Participation at Hannover Messe
- Talks at Conferences & Visits of ErUM offices
- Support of ErUM-Community Events
- Regular exchange with ErUM-(Data) Projects

## → Expansion of the team

### Outlook 2025:

- First inquiries for joint events have already been received

## ERUM-DATA-HUB EVENT PROGRAMME 2024

**26 FEB DEEP LEARNING SCHOOL**

- BASIC CONCEPTS

**1 MAR** \_\_\_\_\_ WIEHL

**25 MAR DEEP LEARNING**

- TRAIN-THE-TRAINER

**26 MAR** \_\_\_\_\_ DRESDEN

**21 MAY ADVANCED DEEP LEARNING**

- ACTIVE TRAINING COURSE

**24 MAY** \_\_\_\_\_ FILDERSTADT

**19 AUG FAST AND EFFICIENT PYTHON**

- COMPUTING SCHOOL

**22 AUG** \_\_\_\_\_ AACHEN

**26 AUG pyHEP.dev**

**30 AUG DEVELOPER'S WORKSHOP**

AACHEN

**MORE TO BE ANNOUNCED SOON!**

- > Conceptual Advances in Deep Learning
- > Software & Tooling Workshop

**22 APR - 26 APR  
HANNOVER MESSE**

**Registration & Contact:**  
[www.erumdatahub.de](http://www.erumdatahub.de)  
[info@erumdatahub.de](mailto:info@erumdatahub.de)



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