ErUM-Data-Hub & DIG-UM present

Deep Learning School

"Basic Concepts"

Meinerzhagen

07.08. – 10.08.2023

ERUM
DATA HUB

Welcome!

07.08. – 10.08.2023

https://indico.desy.de/event/37477/

Wanna join the team? Ask us!

Local Organisation & Program by ErUM-Data-Hub:

Martin Erdmann, Angela Warkentin, Peter Fackeldey, Judith Steinfeld,

Stefan Fröse, Benjamin Fischer

ErUM:

BMBF Rahmenprogramm **ErUM** = Erforschung von Universum und Materie

BMBF Framework programme **ErUM** = Research on Universe and Matter

BMBF Action Plan **ErUM-Data** = Digital Transformation in ErUM

07.08.2023

You can look forward to lectures, hands-on sessions and a group challenge

Lectures:

Dr. Karim El Morabit:

Neural Network Building Blocks

Dr. Marcel Rieger:

Mastering Model Building

Thorsten Buss:

Convolutional Neural Networks

Peter Fackeldey:

Beyond the Basics

Material:

https://indico.desy.de/event/37477/

Hands-On Sessions & Challenge

Hands-On Sessions:

- We have three tutors here
- **Tobias Quadfasel**
- **Ana Alves Andrade**
- **Cedric Ewen**
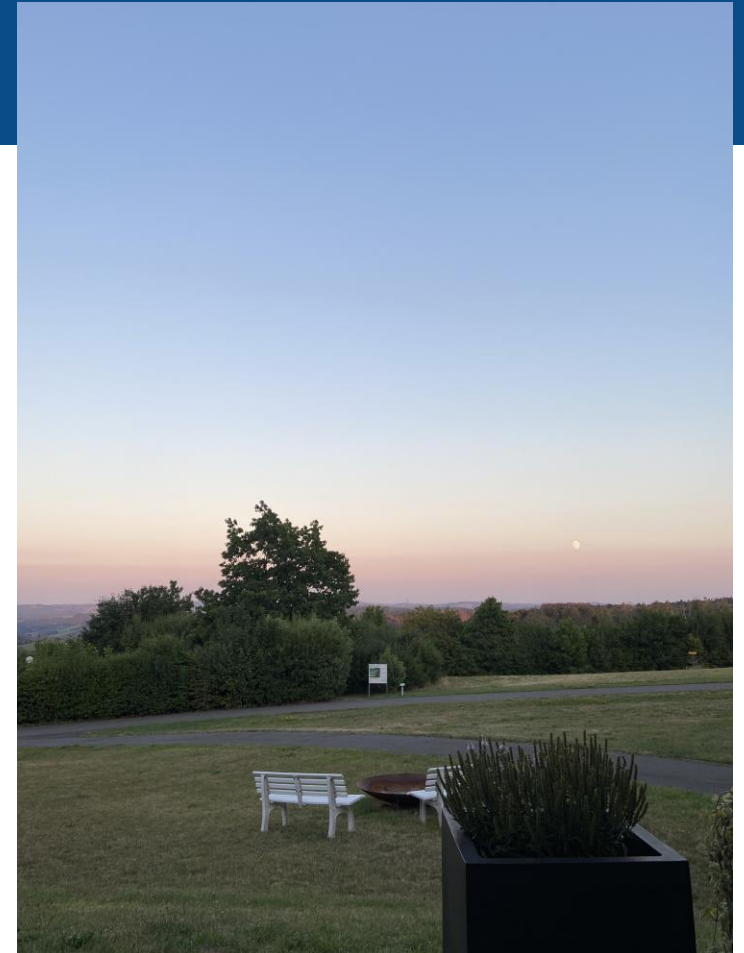- Feel free to ask questions anytime!

Challenge:

- Prepared by **Stefan Fröse**
- The group challenge will be given on Wednesday afternoon
- You will present your results on Thursday
- More Info on Wednesday

07.08.2023

General Information

- Wifi in the conference room:

  - Gigacube 585B for the **front rows** (PW: **2eE26aEBy3E6Q96d**)

  - Nordhelle [5G] LTE-**2** for the **middle rows**

  - Nordhelle [5G] LTE-**4** for the **back rows**

- Water and apple juice in the lecture hall and at the meals are included for you

- During the school you can reach the organization team at the mobile number **+49 175 3259293**

Follow us on Instagram until Thursday for a chance to win a **Hub-Mug**.

Leisure Activities

Bar:

- Open until about 11 pm

Free:

- Table football and billiards

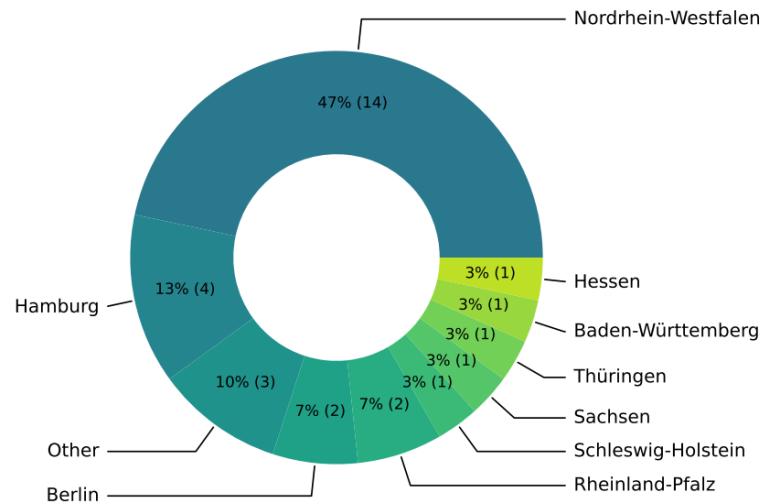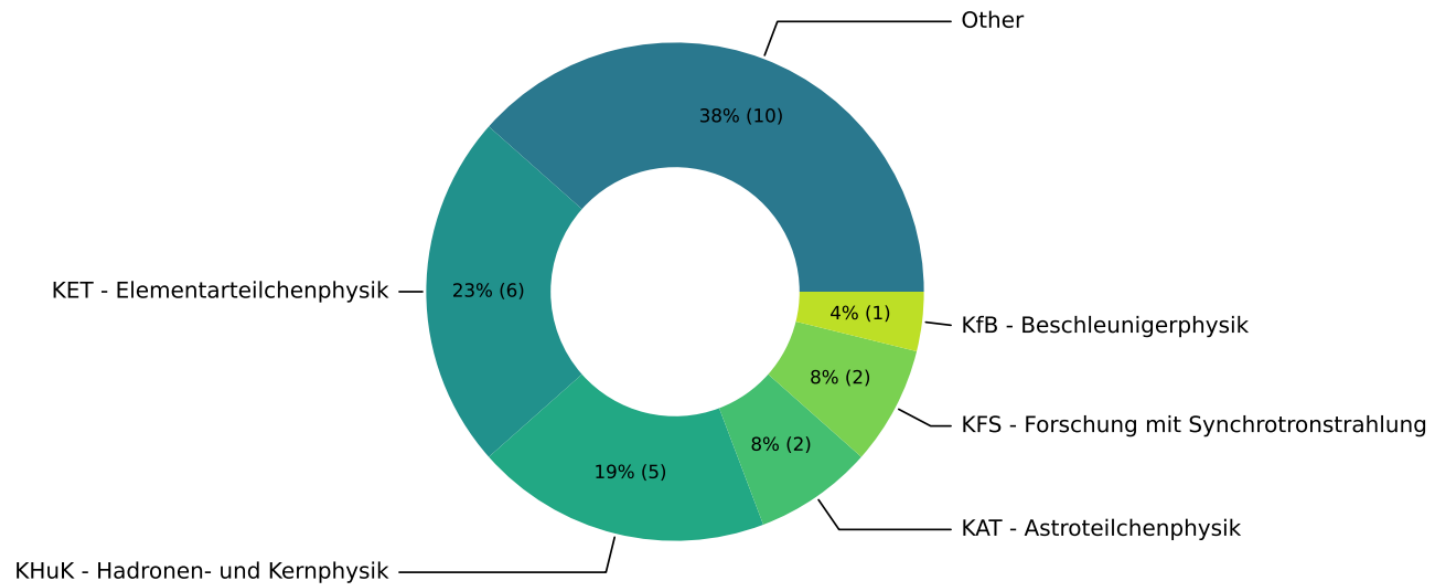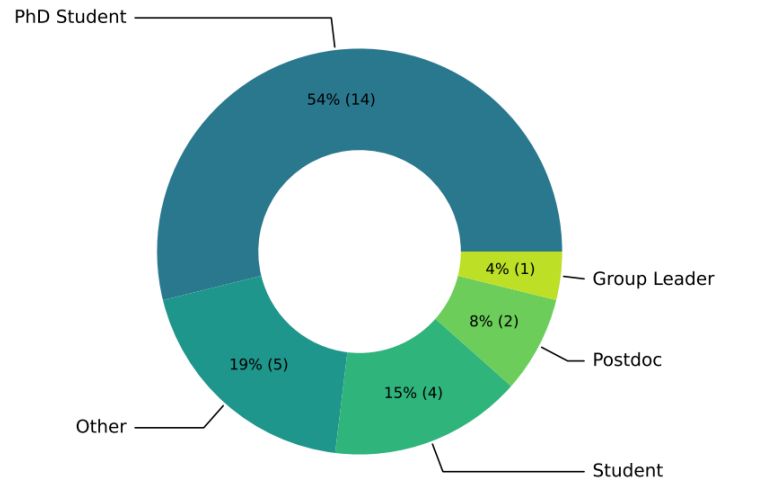- Swimming and fitness

Buy access at the info counter:

- Disc golf

- Bowling (10€/hour with up to 10 persons)

Social evening:

- Join our Pub Quiz on Tuesday (Drinks are on us)

- On Tuesday we will also open the bowling alley for you

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We are a mixed group with different perspectives

Fill out your networking profiles and get to know each other:

https://docs.google.com/presentation/d/13zpe1SqG8m0gxspDZN
p6FOSc11uv-Vf145VB6pUIfhQ/edit?usp=sharing (Link @ Indico)

07.08.2023

	Monday	**Tuesday**	**Wednesday**	**Thursday**
7:00		Breakfast	Breakfast	Breakfast
9:00		**Libraries** Neural Network Building Blocks	**Lecture** Convolutional Neural Networks	**Challenge**
10:30		Coffee	Coffee	Coffee
11:00		**Hands-On** Neural Network Building Blocks	**Hands-On** Convolutional Neural Networks	**Challenge** Presentations
12:30		Lunch	Lunch	**Wrap Up:** Beyond the Basics Award Ceremony & Farewell
13:30				Lunch
14:30		**Lecture** Mastering Model Building	**Challenge** Introduction & Start	
16:00		Coffee	Coffee	
16:30		**Hands-on** Mastering Model Building	**Challenge**	
18:00	Supper	Supper	Supper	
19:00				
19:30	Welcome **Lecture** Neural Network Building Blocks	Pub Quiz & Bowling		
21:00				