ErUM-Data-Hub & DIG-UM present

Deep Learning School
„Basic Concepts"

27.02. – 02.03.2023

ERUM
DATA HUB

Welcome

Deep Learning School „Basic Concepts":

27.02. – 02.03.2023

https://indico.desy.de/event/37303/

Local Organisation by ErUM-Data-Hub:

Martin Erdmann (RWTH Aachen University)

Angela Warkentin (ErUM-Data-Hub)

Benjamin Fischer (RWTH Aachen University)

Peter Fackeldey (RWTH Aachen University)

Jana Moser (RWTH Aachen University)

Program Committee:

Martin Erdmann (RWTH Aachen University)

Peter Fackeldey (RWTH Aachen University)

Benjamin Fischer (RWTH Aachen University)

01.03.2023

General Information

- We recommend the use of a medical face mask

- Wifi in the lecture room:

    - Connect to **Nordhelle [5G] LTE-1 in the front rows**

    - Connect to **Nordhelle [5G] LTE-3 in the back rows**

    - Connect to Nordhelle Guests with your **Smartphone**

- 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**

- For those of you who like to thank the **Landhaus Nordhelle** staff for the service, we have a red device for collecting tips in the back of the room

01.03.2023
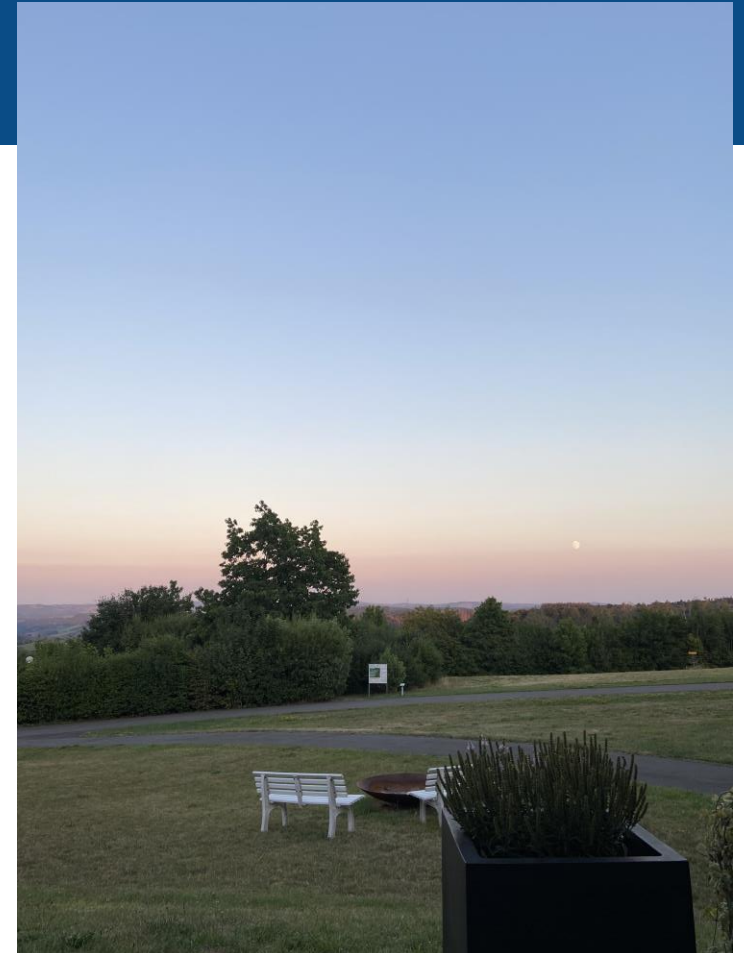
Leisure Activities

Bar:

- Open every evening until about 11 pm

Free:

- Table football and billiards
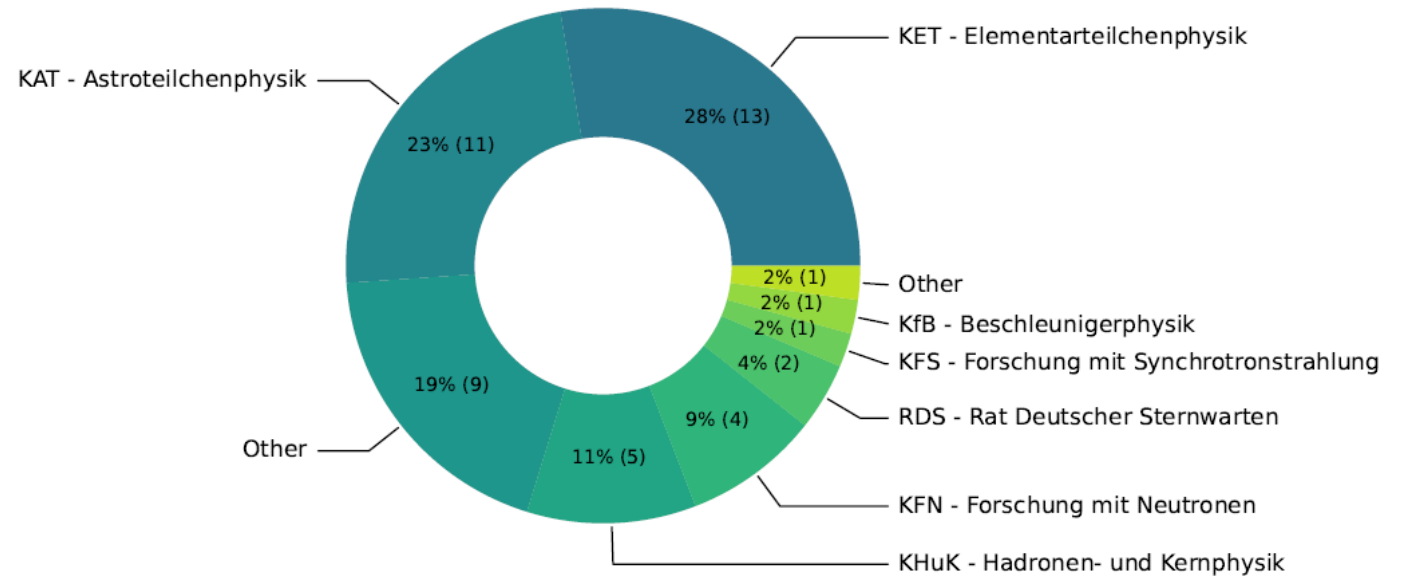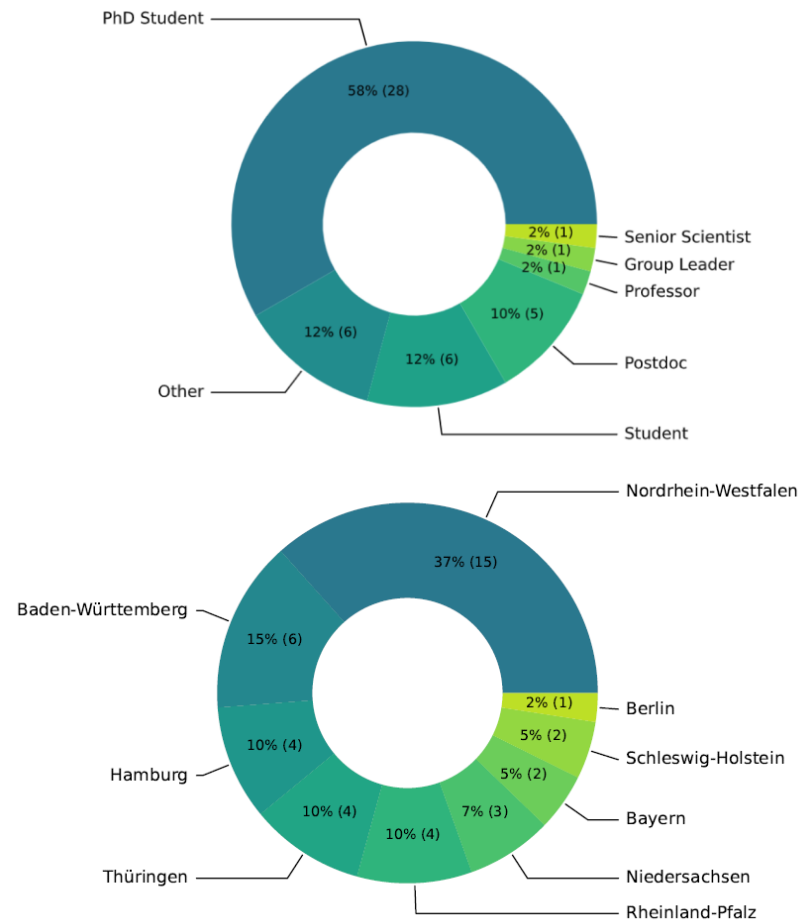- Swimming and fitness

Buy access at the info counter:

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

Social evening:

- On Tuesday evening we will open the bowling alley for you for a few hours. Feel free to come by.

01.03.2023

We are a mixed group with different perspectives

01.03.2023

	Monday	**Tuesday**	**Wednesday**	**Thursday**
7:00		Breakfast	Breakfast	Breakfast
9:00		**Lecture 2** 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, Award Ceremony & Farewell
12:30		Lunch	Lunch	Lunch
13:30				
14:30		**Lecture** Mastering Model Building	**Lecture** Introspection of Neural Networks	
16:00		Coffee	Coffee	
16:30		**Hands-On** Mastering Model Building	Challenge	
18:00	Supper	Supper	Supper	
19:00				
19:30	Welcome			
	Lecture 1 Neural Network Building Blocks			
21:00				

Deep Learning School „Basic Concepts"

Speaker:

Dr. Sebastian Wozniewski:

Neural Network Building Blocks

Niclas Eich:

Mastering Model Building

Dr. Sascha Daniel Diefenbacher:

Convolutional Neural Networks

Dr. Caroline Heneka:

Introspection of Neural Networks

Material:

https://indico.desy.de/event/37303/

01.03.2023

Hands-On Sessions & Challenge

Hands-On Sessions:

- We have three tutors here
  - Mathis Frahm
  - Stefan Fröse
  - Steffen Korn

- Feel free to ask questions anytime!

Challenge:

- The group challenge will be given on Wednesday afternoon

- You will present your results on Thursday

- More Info on Wednesday

01.03.2023