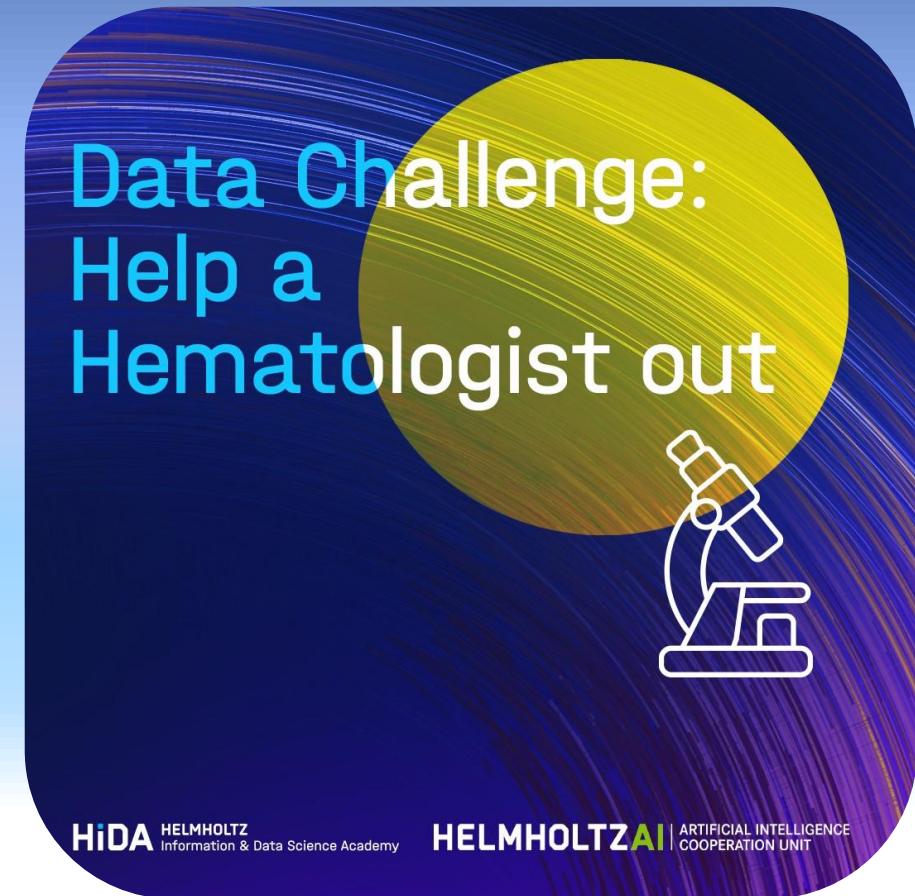


# INCUBATOR SUMMER ACADEMY CHALLENGE

- Manual classification of blood cells is a tedious, but important task, for instance to diagnose diseases such as anemia or leukemia.
- Machine learning makes it easier, but algorithms that work on one set of images might not work on another.
- In this challenge we are aiming to find a solution that may contribute to making clinicians lives easier



# INCUBATOR SUMMER ACADEMY CHALLENGE

## AGENDA

### Kick-off Day

(Sept 14 2022)

- **5:00 PM - 5:05 PM** Welcome
- **5:05 PM - 5:15 PM** Introduction into the Challenge - Dataset
- **5:15 PM - 5:30 PM** Introduction into the Challenge - Helmholtz Challenges Platform
- **5:30 PM - 5:45 PM** Introduction into the Challenge - Starter notebook
- **5:45 PM - 6:00 PM** Question & Answers
- **6:00 PM - 6:05 PM** Team-Building Sessions: 3 Things in Common
- **6:05 PM - 7:00 PM** Exchange in gather.town

### Work with your team

(CW 37 & 38 )

Teams work with mentors through online tools, daily lunch hour with mentors 12-13 PM in gather.town

### Award Ceremony

(Sept 23)

- **11:00 AM - 11:05 PM** Welcome
- **11:05 AM - 11:30 AM** Talk: Christian Pohlkamp from MLL: "Machine learning to support human investigators in leukemia diagnostics"
- **11:30 AM - 11:55 AM** Announcement of the winners & Team Presentations (max. 5min!)
- **11:55 AM - 12:00 PM** Goodbye

# INCUBATOR SUMMER ACADEMY CHALLENGE



**Dr. Christian Matek**

Pathologie Uniklinikum Erlangen

Helmholtz Zentrum München - Deutsches  
Forschungszentrum für Gesundheit und  
Umwelt GmbH

# INCUBATOR SUMMER ACADEMY CHALLENGE



**Dr. Stefan Kesselheim**

Head of ATML Applied Machine Learning &  
AI Consultant team



**Christina Bukas**

Helmholtz AI consultant @ Helmholtz Munich

# INCUBATOR SUMMER ACADEMY CHALLENGE



**Armin Gruber**

MD student at Marr Lab, AIH



# INCUBATOR SUMMER ACADEMY CHALLENGE

## Communication

- Join our **Mattermost channel** to communicate with mentors, teammates, and other participants.
- Log in to <https://mattermost.hzdr.de/> via Helmholtz AAI with your credentials (follow this [tutorial](#) if you need help), and then click on [this link](#)
- **gather.town:** For further questions we meet daily between 12-13 PM in our [meeting space in gather.town](#)



# INCUBATOR SUMMER ACADEMY CHALLENGE

## Computing resources

- If you have your own computer resources that you can use during the challenge, you can create the Conda environment through the environment.yml.
- You can also use HAICORE



# JOIN US FOR THE FOLLOWING EVENTS

You can still join us for the following Events:

**September 16, 2022, 10 AM:** [HIDA Lecture: Data-Driven Inertial Sensing: Itzik Klein](#)  
([The Hatter Department of Marine Technology, Charney School of Marine Sciences, University of Haifa, Israel](#))

**September 21, 2022, 09 AM:** [HIDA lecture: What is Health? Uri Hershberg](#) ([Chair of the Center for Biophysics and Quantitative Biology, University of Haifa, Israel](#))

**September 23, 2022, 10 AM:** [HMC FAIR Friday in cooperation with HIDA, Roland Bertelmann](#)

**September 23, 2022, 11 AM:** [Data Challenge: Closing & Award Ceremony](#)

...Come, meet, and network in our Gathertownspace!





# INCUBATOR SUMMER ACADEMY CHALLENGE

## QUESTIONS?



# INCUBATOR SUMMER ACADEMY CHALLENGE

## NETWORKING: 3 THINGS IN COMMON

- We create break-out sessions in small groups to get to know each other better
- You will have 5 min to answer the question:  
**What three things do you have in common in your group?**
- Post your „3 Things in common“ in the Zoom Chat
- You have 5 minutes... Ready, set, go! 😊



# INCUBATOR SUMMER ACADEMY CHALLENGE

## GATHER.TOWN

- Now it's time to meet and chat in our [meeting space in gather.town](https://gather.town)
- Mentors are there now and daily until 23 September 12-13 PM 😊
- You can use the challenge room or other private rooms for your team-meetings any time



# INCUBATOR SUMMER ACADEMY CHALLENGE

- Mattermost:  
<https://mattermost.hzdr.de/count-me-in/channels/town-square>
- Mattermost tutorial:  
<https://notes.desy.de/p/gotJqHUKL#/3>
- Gather.town:  
[https://app.gather.town/app/nkxyTbul84smfiQk/HMC-Workshop-Lounge?spawnToken=gzP\\_39rcYpfnRwC](https://app.gather.town/app/nkxyTbul84smfiQk/HMC-Workshop-Lounge?spawnToken=gzP_39rcYpfnRwC)
- HIDA Lecture: Data Driven Inertial Sensing, Itzik Klein:  
<https://www.helmholtz-hida.de/en/events/hida-lecture-summeracademy/>
- HIDA Lecture: What is Health? Uri Hershberg.  
<https://www.helmholtz-hida.de/events/hida-lecture-summeracademy-ii/>
- HMC Fair Friday with Roland Bertelmann:  
<https://helmholtz-de.zoom.us/meeting/register/tZlpc-yqpzspGNQqlsA7Je-BLBx87K8dJW-S>



# INCUBATOR SUMMER ACADEMY CHALLENGE

## TIME TO WORK

