

Always meet, discuss and take a break in 2d!  
[world.workshop.gain-group.de](http://world.workshop.gain-group.de)

# Workshop: Hot Topics in Graph Neural Networks

25. Oct. 2022

We are happy to invite you to the workshop "*Hot Topics in Graph Neural Networks*" of the junior research group GAIN - Graphs in Artificial Intelligence and Neural Networks!

----- Time ----- Speaker ----- Topic -----

10:00 - 11:15	GAIN	Expressivity and Dynamic of GNNs in theory and applications to the power grid
11:20 - 12:05	Petar Veličković	Algorithmically-aligned GNNs

## Lunch Break

13:15 - 13:40	Fabian Jogl	Do we need to Improve Message Passing?
13:45 - 14:10	Maximilian Thiessen	Expectation Complete Graph Representations using Graph Homomorphisms
14:15 - 15:00	Massimo Perini	Graph Streams

## Coffee Break

16:00 - 16:45	Rakshit Trivedi	TBD
16:50 - 17:35	Hannes Stärk	Geometric ML for Molecules

Find out about our current projects and follow exciting talks about new advances in Graph Neural Networks by international speakers. The work of the GAIN group addresses dynamic GNN models, the expressivity of GNN models, and their application in the power grid. Among others, the speakers will enlighten us with their work on Algorithmically-aligned GNNs, the Improvement of Message-passing, and Geometric Machine Learning for Molecules.

The public part of the event will take place on **the 25<sup>th</sup> of October 2022 from 10am to 6pm**. **The workshop will be held in a hybrid format, but we are happy if you could come in person!** To make the workshop more interactive for everyone who cannot participate in person, we have built a virtual 2D world which you can join to network with other participants!

To ensure we can plan accordingly, please visit the website below and register. You will then receive access to the 2d world and links to the talks.

Links: [workshop.gain-group.de](http://workshop.gain-group.de)

