

# DS4S | Data Science for Science

## Hybrid Networking Series



SAVE THE DATE: June 8<sup>th</sup>, 2022 at 4 pm

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### 4 pm Prof. Jan Baumbach

#### “Privacy-Preserving Clinical Omics Data Profiling”

Artificial intelligence (AI) offers game-changing opportunities to healthcare. However, it also harbors risks to patient privacy, in particular when dealing with sensitive clinical data stored in critical healthcare IT infrastructure. Specifically, data exchange over the internet is perceived insurmountable, posing a roadblock hampering big data-based medical innovations.

We created a novel AI platform, the FeatureCloud AI app store that is based on the idea of federated learning where only model parameters are communicated. To maximize privacy, sensitive datasets remain stored locally and are analyzed behind safe firewalls. We will investigate the power of FeatureCloud apps exemplarily for decentralized genome-wide association studies (GWAS). We then quickly introduce related apps for gene expression data mining and time-to-event analysis, to demonstrate how FeatureCloud may enhance worldwide collaboration, accelerate innovation, and democratize scientific data usage.

*Lecture Hall, Centre for Structural Systems Biology (CSSB)*

### 5 pm Networking Session with Snacks & Drinks

### 6 pm Mini-Hackathon

We will provide an interesting dataset and present a current problem. The goal is to discuss possible solutions in a casual environment in small groups (3-4) and maybe start coding. Further, it is a great opportunity to meet other people from other fields and expand your network.

*Seminar Room 1012, Center for Data and Computing in Natural Sciences (CDCS)*

**Register here for the Mini-Hackathon:**

