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Department of Medicine  
Channing Division of Network Medicine

## Channing Methods Meeting

June 13 (Tuesday), 2023, 11AM (ET)

MCP 5<sup>th</sup>-floor large conference room

<https://us02web.zoom.us/j/579497999?pwd=cHNIWHMzWUJFUUVJTG1EeVJmY05aQT09>

Meeting ID: 579 497 999

Passcode: 844168



### Stefan Bonn, Ph.D.

Director and Professor of Medical Systems Biology  
Head of the Center for Biomedical AI Core  
University Medical Center Hamburg-Eppendorf/Hamburg  
(UKE)

## Integration of large biomedical data to robustly predict and understand human disease

A prime focus of our work is to decipher human disease using computational methods. In my presentation I will highlight two recent projects where we used novel computational algorithms to decipher human malady: i) finding a new potential treatment of ALS using multi-omics data integration and ii) predicting Prostate Cancer from histopathological images with super human performance.

**Bio:** Dr. Stefan Bonn is currently the Director and Professor of Medical Systems Biology, and Head of the Center for Biomedical AI Core, at University Medical Center Hamburg-Eppendorf/Hamburg (UKE). He received his Ph.D. in Bioinformatics and Neuroscience from Max-Planck Institute for Medical Research in Heidelberg, Germany, then received his postdoctoral training through the EIPOD Postdoctoral Fellowship at the European Molecular Biology Laboratory. Professor Bonn's research focuses on a new understanding of the physiology and aetiology of immune-mediated diseases. To this end, he integrates and curates 'big' biomedical data using automated systems and extract disease-relevant information using statistical, graph, and machine learning approaches. His central technical focus is currently the development and application of deep learning-based algorithms to boost the performance of clinical decision support systems.

Hosted by Yang-Yu Liu