

# HEIBRIDS LECTURE SERIES

## LECTURE SERIES



**Wednesday**

**February 1<sup>st</sup>,  
2023**

**16.00–17.00**

**Location: ECDF,  
Wilhelmstraße 67, 10117 Berlin,  
conference room, 1<sup>st</sup> floor.**

## **Interdisciplinary Retina Research: Putting Deep Learning into Practice**

**Speaker: Seyedamirhosein Motamedi, Charité Berlin**

### **Abstract**

The retina as a part of the central nervous system (CNS) can be easily accessed with non-invasive high-resolution imaging techniques like optical coherence tomography (OCT) and is therefore considered a window to the brain. Autoimmune disorders of the CNS such as multiple sclerosis often alter the retina by causing neuroaxonal damage during the disease course, therefore retinal OCT can be used for disease diagnosis and progression monitoring in those disorders. In this lecture, I will be talking about our efforts in recent years to put deep learning into practice to solve some of our longstanding challenges in interdisciplinary retina research such as intraretinal layers segmentation and increase the accuracy of retinal OCT in diagnosis.