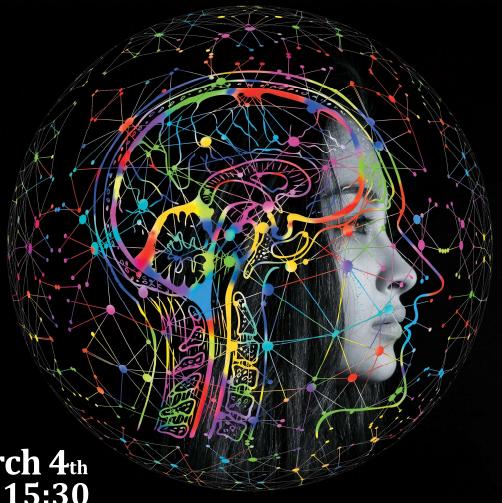
OIST PRESIDENTIAL LECTURE

Cerebral Cortex Connectomics



wed, March 4th 14:00 - 15:30

Sydney Brenner B250 Lecture Theater

The mapping of neuronal connectivity is one of the main challenges in neuroscience. We are developing methods to make circuit reconstruction feasible using a combination of human-machine interaction and artificial intelligence. We are applying these methods to neuronal circuits in the mammalian cerebral cortex in order to extract algorithmic properties of cortical circuits, quantify connectomic traces of experience, and study the alterations of cortical circuits over development, evolution, and in models of psychiatric disease.

Prof. Dr. Moritz Helmstaedter

Director at the Max Planck Institute for Brain Research

Moritz Helmstaedter is Director at the Max Planck Institute for Brain Research in Frankfurt, Germany. His work aims at pushing the frontiers of Connectomics, an emerging research field occupied with mapping neuronal networks in the brain at unprecedented scale and resolution. Before joining the Max Planck Institute for Brain Research in 2014, he was a group leader at the Max Planck Institute of Neurobiology in Munich (2011-2014).

