INTERNATIONAL PHD PROGRAM IN NEUROSCIENCE

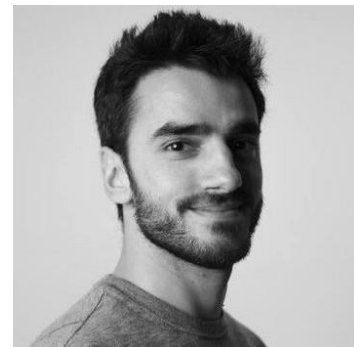**Zenith**

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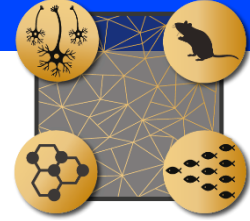
ZENITH SEMINARS

**WEDNESDAY, 24 NOVEMBER 2021
AT 5:00 PM (CET)**

MATTEO CANTARELLI
METACELL

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SOFTWARE DEVELOPMENT IN NEUROSCIENCE

Investigations of fundamental questions in neuroscience, such as the mechanistic basis of behaviour and cognition, generate large volumes of experimental data as well as complex computational models spanning different levels of biological detail. These push the neuroscience applications available to researchers to their limits. Visualizing and managing the heterogeneity of neuroscience data and models in a way that is accessible and usable for both experimentalists and modellers is crucial for driving the field forward. I will present several examples of applications built to address these needs, touching on underlying technologies, development processes and best practices.

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Matteo Cantarelli, Founder and CTO of MetaCell, is a software architect and entrepreneur. In 2011 he co-founded the OpenWorm Foundation which he has served as Financial Director. In 2012 Matteo worked with the Department of Neuroscience, Physiology and Pharmacology at the University College of London to build Open Source Brain, a resource to develop and share computational models of neurons. Matteo published with the Royal Society of London, is inventor in an Interactive-Visual patent, and had his work featured on The Economist. Matteo holds a master in systems Engineering from the École Normale Supérieure de Paris-Saclay (France) as well as a master and bachelor degree in electronic engineering from the University of Cagliari (Italy).

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