

#### Terrence Stewart, University of Waterloo (CA)

Nengo is a cognitive architecture, based on the simulation of biological and neural networks. Its main focus lies in the ability to produce large-scale models of human cognition. Through methods of deep learning, problem solving, memory retrieval, visual attention, motor control and others, one of the largest functional models of the human brain to date, SPAUN, was realized in Nengo. SPAUN can interpret and qualify visual cues and react through motor functions to learn and solve arithmetic or reasoning problems.



Terry Stewart is one of the core developers of Nengo and part of Chris Eliasmith's Computational Neuroscience Research Group at the University of Waterloo. On top of this, he is a co-founder of Applied Brain Research, which produces applications of cognitive models for specialized hardware, for instance industrial robots.

On Friday, the 22nd of March, Terry will present the theory and implementation of Nengo and afterwards hold a hands-on workshop for a limited number of participants.

### On Friday, 22.3.2019 at TU Berlin

10:15	Talk: Introduction to Nengo	Room H 3.007 (Main Building)
12:15	Nengo Workshop w/ Pizza Lunch	Room MAR 3.048 (Marchstraße 23)

To register for the workshop, please send a mail to [workshop@kmodys.tu-berlin.de](mailto:workshop@kmodys.tu-berlin.de) before 21.3., Subject „Nengo Workshop“. Limited availability!