Bio

Justus Kromer's research is devoted to improving deep brain stimulation techniques causing long-lasting symptom relief in patients suffering from neurological disorders, e.g. Parkinson's disease. Being a theoretical physicist in the group of Peter Tass, Justus Kromer performs computer simulations in order to understand stimulation-induced rewiring of synaptic connectivity in symptom-related brain regions.

During his PhD studies at Humboldt University in Berlin, Germany, he gained expertise in the fields of stochastic processes, nonlinear dynamics, and computational neurosciences. He was trained in both, computational studies and theoretical modelling. His general research is devoted to understanding and manipulating noisy nonlinear systems with application to biology such as neuronal networks and signal processing systems, e.g. sensory neurons and chemotactic agents.

PROFESSIONAL EDUCATION

- Diplom, Technische Universität Berlin, Physics (2012)
- Dr. rer. nat, Humboldt-Universität zu Berlin, Theoretical Physics (2016)

Research & Scholarship

LAB AFFILIATIONS

- Peter Tass (9/1/2017)

Publications

PUBLICATIONS

- Coordinated Reset Vibrotactile Stimulation Induces Sustained Cumulative Benefits in Parkinson's Disease. *Frontiers in physiology*
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