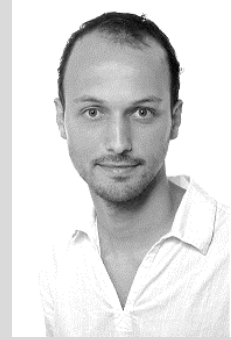


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Curriculum vitae

since 2014	Professor of Neurobiology, Cluster of Excellence NeuroCure, Charité; Head of Bioimaging and Neurophotonics Lab
2010 - 2014	Sir Henry Wellcome postdoctoral fellow at the California Institute of Technology, departments of Bioengineering and Electrical Engineering
2006 - 2010	PhD in Physiology and Neuroscience at University College London. Thesis title: Optical and molecular techniques for the study of neuronal networks
2005	Undergraduate (Diplom) thesis on two-photon calcium imaging in the zebrafish olfactory bulb in the department of Biomedical Optics at the Max Planck Institute for Medical Research. Graduated with distinction.
2000 - 2005	Biology Diplom degree at the University of Heidelberg. In 2003/04: year abroad at the University of California, Berkeley; Subjects: Molecular and Cellular Biology, Biophysics, Neuroscience

Research fields

Our group is active in the field of:

- Bioimaging and Neurophotonics
- Tool development
- Neuroethology

Activities in the scientific community, honors, awards

2015	Technology Prize by the German Society of Neuroscience
2010 - 2014	Sir Henry Wellcome Postdoctoral Fellowship by the Wellcome Trust
2008	UCL Young Investigator Award in Neuroimaging Techniques
2006 - 2010	Boehringer Ingelheim Fonds PhD scholarship
2006 - 2010	UK Medical Research Council PhD scholarship
2000 - 2005	German National Academic Foundation (Studienstiftung) scholarship
2003 - 2004	University of California exchange student scholarship
2003 - 2004	German Academic Exchange Service (DAAD) scholarship
1993	1st prize in the German Federal Competition Mathematics

Selected publications

Judkewitz B, Horstmeyer R, Vellekoop IM, Papadopoulos IN, Yang CH. Translation correlations in anisotropically scattering media. Nat Phys. 2015;11(8):684-9.

- Judkewitz B, Wang YM, Horstmeyer R, Mathy A, Yang CH. Speckle-scale focusing in the diffusive regime with time reversal of variance-encoded light (TROVE). *Nat Photonics*. 2013;7(4):300-5.
- Wang YM, Judkewitz B, DiMarzio CA, Yang CH. Deep-tissue focal fluorescence imaging with digitally time-reversed ultrasound-encoded light. *Nature Communications*. 2012;3.
- Wiechert MT, Judkewitz B, Riecke H, Friedrich RW. Mechanisms of pattern decorrelation by recurrent neuronal circuits. *Nature Neuroscience*. 2010;13(8):1003-U132.
- Judkewitz B, Rizzi M, Kitamura K, Hausser M. Targeted single-cell electroporation of mammalian neurons in vivo. *Nature Protocols*. 2009;4(6):862-9.
- Kitamura K, Judkewitz B, Kano M, Denk W, Hausser M. Targeted patch-clamp recordings and single-cell electroporation of unlabeled neurons in vivo. *Nature Methods*. 2008;5(1):61-7.
- Yaksi E, Judkewitz B, Friedrich RW. Topological reorganization of odor representations in the olfactory bulb. *Plos Biology*. 2007;5(7):1453-73. doi: ARTN e178
- Porter J, Craven B, Khan RM, Chang SJ, Kang I, Judkewitz B, Volpe J, Settles G, Sobel N. Mechanisms of scent-tracking in humans (vol 10, pg 27, 2007). *Nature Neuroscience*. 2007;10(2):263-.
- Judkewitz B, Roth A, Hausser M. Dendritic enlightenment: Using patterned two-photon uncaging to reveal the secrets of the brain's smallest dendrites. *Neuron*. 2006;50(2):180-3.