

Dr. Axel Thielscher
CV

ADDRESS

Danish Research Centre for Magnetic Resonance (DRCMR)
Copenhagen University Hospital Hvidovre
Kettegaard Allé 30
DK-2650 Hvidovre

Biomedical Engineering Section
Technical University of Denmark (DTU)
Elektrovej, building 349
DK-2800 Kgs. Lyngby

Email: axelt@drcmr.dk
Phone: +45 - 386 23326

EDUCATION (University of Ulm, Germany)

Ph.D. in Electrical Engineering (summa cum laude/"with highest honor") 2008
Ph.D. in Biomedical Sciences ("with highest honor") 2002
Degree in Electrical Engineering (grade 1.1 on a scale from 1.0 – very good - to 5.0) 1999

RESEARCH EXPERIENCE

Associate Professor & Senior Researcher, Biomedical Engineering Section, Technical University of Denmark & Danish Research Centre for Magnetic Resonance, Copenhagen University Hospital Hvidovre, since 04/2012

Project Group Leader, Max Planck Institute for Biological Cybernetics (MPI-BC, Tübingen, Germany), since 2008 & Faculty member, Max Planck Graduate School (lecturer & course coordinator in the MSc program 2008-2011)

Research Scientist, MPI-BC, 2005-2008

Postdoctoral Researcher, Dept. of Psychology (Prof. L. Pessoa), Brown University, Providence, RI (USA) 2004-2005

Research Assistant, Dept. of Psychiatry (Prof. M. Spitzer), University of Ulm, 1999-2004

SCIENTIFIC FOCUS AREAS

Advanced modeling of biophysics of transcranial brain stimulation (see www.simnibs.org)
Combined neurostimulation-neuroimaging approaches
Sensorimotor integration and motor control

AWARDS & GRANTS

DTU grant for full PhD stipend on Transcranial Focused Ultrasound Stimulation, 2016

Co-applicant & work package leader on Interdisciplinary Synergy Project grant by the NovoNordisk fonden (main PI: Prof. Hartwig R. Siebner, DRCMR), 2014

Co-applicant & work package leader on project grant by the Danish Innovation Foundation (main PI: Professor Ulrik L. Andersen, DTU Physics), 2013

Project grant, Lundbeck Fonden (2013)

Project grants, German Research Council (DFG; 2006, 2012, 2013 - one of 3 PIs), German Ministry of Economics and Technology (2011)

Teaching award, Max Planck Graduate School, 2011

Travel grant, DFG "Exzellenzademie Medizintechnik", 2006

Start-up grant, Ittleston Foundation (in cooperation with L. Pessoa), 2004

Scholarship, German academic exchange service, 2004

Award for best PhD thesis in medicine & biomedical sciences, University of Ulm 2003

TEACHING ACTIVITIES

- MSc/PhD courses: Integrative Neuroimaging (MSc level, Sino Danish Center, Beijing, 2013,2014), Multimodal Imaging (PhD level, DRCMR & University of Copenhagen, 2013), MR study group (MSc/PhD level, DTU BME section, 2013,2014), 31547 Medical Magnetic Resonance Imaging, fMRI part (MSc level, DTU BME section, 2014), 31545 Medical Imaging Systems, part of MR physics (MSc level, DTU BME section, 2015)
- Other courses: International Summer School in Biomedical Engineering (Cuba, 2013), TMS Training Workshop (DRCMR, 2013,2014), International Summer School in Biomedical Engineering (Wittenberg, 2015)
- „Teaching in Medicine“ certificate (University of Tübingen) 2011

GRADUATE ADVISING / SUPERVISION

Main advisor (past and present) for 4 PostDocs and 5 PhD candidates

Co-advisor to 6 further PhD candidates

Students: Main advisor on 13 MSc-, BSc-, Diploma-projects

PUBLICATIONS

46 peer-reviewed publications (43 in English, 15 first authorships, 12 last authorships)

Cumulative impact factor (IF): 227; Mean IF: 6.0 (based on journal papers in English)

Hirsch index: 19; Sum of scientific citations: 1875 (source: www.scopus.com)

OTHER

- Adhoc reviewer for 16 peer-reviewed international journals & conferences; Grant reviews for 5 funding agencies/universities
- Cooperation with industry & consulting activities: MagVenture (Farum, Denmark) on the combination of TMS & fMRI, ANT neuro (Enschede, The Netherlands) on a next-generation neuronavigation system, Precisis AG (Heidelberg, Germany) on subgaleal stimulation
- 28 invited talks at universities and international conferences
- Ongoing open-source software project on field calculations for TMS and tDCS based on Finite Elements (www.simnibs.org)
- Memberships: The Society of Neuroscience (2007 – present), The Organization for Human Brain Mapping (2007 – present), IEEE (since 2011)