

Univ.-Prof. Dr. rer. nat. Tobias Heed

Psychology (M.Sc. equivalent)
Business Administration (BA)

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Personal

born July 5, 1973 in Karlsruhe, Germany
Nationality: German
4 children (born 2001, 2002, 2011, 2015)
Lastname 2000-2009: Schicke

Research Experience

- Professor for Cognitive Psychology** since 10/2021
in der Department of Psychology in the Faculty of Natural and Life Sciences, Paris Lodron University Salzburg, Austria
Teaching Responsibility: General and Cognitive Psychology
- Full Professor ("W3"): Biopsychology & Cognitive Neuroscience** 09/2016 to 09/2021
Department of Psychology, Faculty of Psychology & Sports Science, Bielefeld University, Germany
- Head of the Emmy Noether Research Group "Reach and Touch"** 10/2012 to 08/2016
based at the Faculty of Psychology and Movement Science, University of Hamburg
The Emmy Noether programme of the German Research Foundation (DFG) is a competitive funding initiative for young PIs to establish their own group.
- Postdoc** 11/2008 to 09/2012
Biological Psychology and Neuropsychology (Prof. Brigitte Röder), Institute of Psychology, University of Hamburg
in parallel: Lab Management of behavioral and EEG labs: purchase, technical setup, and maintenance of all lab equipment; lab coordination and teaching about equipment use, support in experimental design; financial management of the group
- PhD** 11/2003 to 10/2008
Thesis: "Multisensory integration in peripersonal space: beyond the hands" , Biological Psychology and Neuropsychology (Prof. Brigitte Röder), Institute of Psychology, University of Hamburg
Dr. rerum naturalium with honors ("summa cum laude")
in parallel: Lab Management of behavioral and EEG labs
- Researcher** 11/2002 to 11/2003
at the Biological Psychophysiology, Philipps-University Marburg

Education and background

Studies of Psychology Philipps-University Marburg. Diploma (equivalent to M.Sc.)	1996 to 2002
Studies of Business Administration Cooperative State University Stuttgart; combined with in-house training at Daimler-Benz AG, Stuttgart, BA (honors)	1993 to 1996
Civil Service Emergency Medical Service (Red Cross), Bad Mergentheim, Germany	1992 to 1993
Abitur (High School Graduation) Deutschorden-Gymnasium, Bad Mergentheim, Germany	1992

Funding

Dynamic coding of tactile-to-motor transformation in human and macaque posterior parietal cortex, German Research Foundation (DFG) Tandem project in the French-German DFG-ANR program for Natural, Life and Engineering Sciences Positions: 1 postdoc Partner project: Suliann Ben Hamed, CNRS, Lyon, France (funding: 450.000 €)	2021 to 2023 375.000 €
Spatial attention as an index of parallel movement plans, DFG Project partner: Dr. Christian Seegelke; own role: supervisor Positions: 1 PhD student	2021 to 2024 237.000 €
Disturbing hand and foot motor control with transcranial magnetic stimulation, German Exchange Service (DAAD) Guest visit by Prof. Daniel Marigold, Burnaby, Canada Role: Host and Co-PI	2016 6.500 €
Tactile-visual interactions for saccade planning during free viewing and their modulation by TMS, DFG in the Collaborative Research Center 936 "Multi-site communication in the brain", 2 nd funding period Role: Main PI (Co-PIs: Peter König, Brigitte Röder) Positions: 1 postdoc	2015 to 2019 391.000 €
Sensorimotor processing and reference frame transformations in the human brain, DFG Emmy Noether Group Positions: 3 PhD students	2012 to 2019 1.050.000 €
The role of vision for shaping cortico-cortical interactions mediating sensorimotor transformations, DFG in the Collaborative Research Center 936 "Multi-site communication in the brain", 1 st funding period Role: Main PI (Co-PI: Brigitte Röder) Positions: 1 PhD student	2011 to 2015 245.000 €

List positions

2. List position, University of British Columbia, Kelowna, Canada 2016
Assistant Professorship for Sensorimotor Neuroscience

Awards

Nominated for University of Salzburg's Teaching Award 2022

Nominated for Bielefeld University's Karl-Grotemeyer-Award for excellent teaching 2017, 2018

Young Scientist Award 2009
of the German Association for Psychophysiology and its Applications (DGPA)

Award for Outstanding Oral Presentation 2007
at the Body Representation Workshop, Rovereto, Italy

Poster Prize für PgD students 2006
at the Conference of Experimental Psychologists (TeaP), Mainz, Germany

Research cooperations

of the past 10 years

Fellow of the research group "Cognitive Behavior of Humans, Animals, and Machines: Situation Model Perspectives" 2019/2020
(Heads: Helge Ritter, Werner Schneider) at the Centre for Interdisciplinary Research (ZiF), Bielefeld, Germany

Christoph Kayser since 2020
Biology, Universität Bielefeld

Suliann Ben Hamed since 2019
CNRS, Lyon, France
Bilateral funding DFG/ANR Natural and Life Sciences & Engineering (NLE), 2019-2023

Stephanie Badde since 2015
Tufts University, Boston, USA

Kevin O'Regan, Eszter Simogyi, Jeffrey Lockman since 2014
Descartes University, Paris, France, University of Portsmouth, Tulane University, New Orleans, USA

Matej Hoffmann since 2014
Faculty of Electrical Engineering, Technical University Prag, Czech Republic

Daniel Marigold since 2014
Biomedical Physiology & Kinesiology, Simon Fraser University, Burnaby, Canada
Visit in my lab, funded by DAAD: 02-04/2016
Visit of MSc student Cady Seavey, funded by NSERC, 02-05/2024

Elena Azañón since 2013
Department of Psychology, Otto-von-Guericke-University Magdeburg, Germany

Peter König 2012 to 2019
University of Osnabrück, Germany

Research cooperations *(cont'd)*

of the past 10 years

Pieter Medendorp

Donders Instituut, Radboud Universiteit, Nijmegen, Niederlande
Research stays (fMRT): 01-03/2009, 11/2011

since 2009

Andreas Engel, Till Schneider und Verena Buchholz

Department of Neurophysiology und Pathophysiology, University Hospital Eppendorf (UKE),
Hamburg, Germany

2011 to 2016

Onur Güntürkün, Sebastian Ocklenburg und Erhan Genç

Biopsychology, Department Cognitive Neuroscience, Ruhr-University Bochum

2011 to 2015

Teaching and supervision

Postdocs

Marlou Perquin (2020-2023), Celia Foster (2020-2023), Xaver Fuchs (seit 2017), Christian Seegelke (seit 2016), José Ossandón (2015-2019), Marie Martel (2016-2018), Stephanie Badde (2013-2015)

PhDs

supervision: Kenan Suljic (ongoing), Carolin Schonard (ongoing), Phyllis Mania (2017), Janina Brandes (2017, summa cum laude), Jonathan Schubert (2016),

Co-supervision: Marcel Schulze (mit Prof. Dr. Silke Lux, Bonn; 2023), Magdalena Gippert (mit Prof. Dr. Arno Villringer, MPI Leipzig, ongoing), Stephanie Badde (with Prof. Dr. Brigitte Röder, Hamburg, 2013, summa cum laude)

MSc-Arbeiten / Diplomarbeiten

personal supervision: Nina Schmelter (external, Bielefeld, ongoing), Sophie Schunicht (2023), Sebastian Denzler (ongoing), Christoph Lackner (2022), Julia Kirzinger (2022), Kira Heimann (2019), Magdalena Gippert (2018), Tamara Thol (2016), Farhad Rezvani (2016), Anne Bert (2015), Karima Chakroun (2014, awarded 3rd best thesis of the Institute of Psychology), Jonathan Schubert (2011), Stephanie Mark (2011), Jenny Backhaus (2010), Johanna Möller (2010), Pia Ley (2008), Lisa Tlach (2008), Frank Bauer (2008), Anna Kusmierek (2006)

BSc-Arbeiten

Personal supervision: Nina Schmelter (2021), Nelia Posen (2021), Tabea Görge (2021), Julia Burbach (lfd.), Vivian Pach (lfd.), Nele Rödenbeck (2019), Julia Thomas (2019), Jule Hoppe (2019), Stefanie Queren (2019), Vitalij Rozkov (2018), Tanja Ohlendorf (2016), Michael Wendt (2015), Annalina Mayer (2014), Hatice Ögreten (2014), Semiha Azak (2014), Tina Obst (2013), Birte Küper (2013), Constance Labe (2013), Veronica Leal Nunes (2013), Dominique Schinschke (2013), Sarah Kolb (2012), Michael Gründler (2010), Franziska Rudzik (2010), Jennifer Rinkleib (2010)

Media

Initiator und organizer of museum exhibition “psychoLOGISCH! Forschung öffnet Türen” (psychoLOGICAL! Research opens doors) At the Museum of Nature Studies (“namu”), Bielefeld, Germany, Mai-Oktober 2019	2018/2019
Neue Westfälische (newspaper), “Experimente im Kinderlabor” („Experiments in the kids lab“)	June 2018
Children’s and Parents’ Magazine “Milkids” Contribution for Kids: “Wie das Gehirn den Körper bewegt” (How the brain moves the body)	September 2017
Geniale Science Festival Bielefeld 8 day exhibition „Body and Brain“ with tactile illusions and real experiments for adults and kids	August 2017
Deutschlandfunk (radio), “Experimente mitten in der City” („Experiments in the city center“)	August 2017
Neue Westfälische (newspaper), “Diese Forscher tricksen das Hirn aus” („These researchers trick the brain“)	August 2017
Children’s University Bielefeld Lecture for 800 3rd and 4th graders: “How the brain moves the body”	March 2017

Memberships

Deutsche Gesellschaft für Psychologie (DGPs)
Deutscher Hochschulverband (DHV)
Society for Neuroscience (SfN)
Neural Control of Movement (NCM)

Reviewing

Grant proposals

Deutsche Forschungsgemeinschaft (**DFG**); Deutscher Akademischer Austausch Dienst (**DAAD**); Studienstiftung des deutschen Volkes, Fonds Wetenschappelijk Onderzoek (Belgische Forschungsförderung, **FWO**); German-Israeli Foundation for Scientific Research and Development (**GIF**); Leverhulme Trust, UK

Reviewing

Papers

Acta Psychologica; Attention, Perception, & Psychophysics; Biological Psychology; Brain Research; Brain Structure and Function; Cerebral Cortex; Cognition; Consciousness & Cognition; Current Biology; Current Directions in Psychological Science; Experimental Brain Research; Frontiers in Cognitive Science; IEEE Transactions on Haptics; Journal of Cognitive Neuroscience; Journal of Cognitive Psychology; Journal of Experimental Psychology (General); Journal of Experimental Psychology (Human Perception & Performance); Journal of Mathematical Psychology; Journal of NeuroEngineering and Rehabilitation; Journal of Neurophysiology; Journal of Neuroscience; Journal of Physiology; Multisensory Research; NeuroImage; Neuropsychologia; Neuroscientist; Perception; PLoS One; Psychological Research; Psychophysiology; Restorative Neurology and Neuroscience; Scholarpedia; Scientific Data; Scientific Reports; Somatosensory & Motor Research

Publications

Please see public listings, e.g.

Google Scholar <https://scholar.google.com/citations?user=YSnQ29QAAAAJ&hl=en>
PURE <https://uni-salzburg.elsevierpure.com/en/persons/tobias-heed>

Key publications 2020-2024

Klautke, J., Foster, C., Medendorp, W. P., & Heed, T. (2023). Dynamic spatial coding in parietal cortex mediates tactile-motor transformation. *Nature Communications*, *14*(1), Article 1. <https://doi.org/10.1038/s41467-023-39959-4>

Badde, S., & Heed, T. (2023). The hands' default location guides tactile spatial selectivity. *Proceedings of the National Academy of Sciences*, *120*(15), e2209680120. <https://doi.org/10.1073/pnas.2209680120>

Schonard, C., Heed, T., & Seegelke, C. (2022). Allocation of Visuospatial Attention Indexes Evidence Accumulation for Reach Decisions. *eNeuro*, *9*(6). <https://doi.org/10.1523/ENEURO.0313-22.2022>

Foster, C., Sheng, W.-A., Heed, T., & Ben Hamed, S. (2022). The macaque ventral intraparietal area has expanded into three homologue human parietal areas. *Progress in Neurobiology*, *209*, 102185. <https://doi.org/10.1016/j.pneurobio.2021.102185>

Maij, F., Seegelke, C., Medendorp, W. P., & Heed, T. (2020). External location of touch is constructed post-hoc based on limb choice. *eLife*, *9*, e57804. <https://doi.org/10.7554/eLife.57804>

CV last revised on 2024-04-11