

# Curriculum vitae Karsten Specht

## Personal information

First name, Surname:	Karsten Specht		
Date of birth:	20.11.1969	Sex:	male
Nationality:	German		
Researcher unique identifier(s) (ORCID, ResearcherID, etc.):	ORCID: <a href="http://orcid.org/0000-0002-9946-3704">http://orcid.org/0000-0002-9946-3704</a> ResearcherID.com: <a href="http://ResearcherID.com/C-3762-2009">C-3762-2009</a> ResearchGate: <a href="https://www.researchgate.net/profile/Karsten_Specht">https://www.researchgate.net/profile/Karsten_Specht</a>		
URL for personal website:	<a href="http://www.Spechtlab.info">www.Spechtlab.info</a>		

## Education

Year	Faculty/department - University/institution - Country
2012	"Habilitation", University of Magdeburg, Germany
2003	PhD in Neuroscience, 2003, University of Magdeburg, Germany
1997	Diploma thesis in Physics, Rheinisch Westfälische Technische Hochschule (RWTH)-Aachen, Germany

## Positions - current and previous

Year	Job title – Employer - Country
2017-	Professor II, Department of Education, UiT/The Arctic University of Norway, Tromsø, Norway
2017-	Head of the Bergen fMRI group & PI of the research node "Re:State" and "BeRG-Ap"
2012-	Professor in Biological and Medical Psychology, University of Bergen, Norway
2008-2017	Head of the Junior Research Group, Bergen Research Group on Auditory Perception, Faculty of Psychology, University of Bergen, Norway
2006-2012	Researcher (20%), Clinical Engineering Dept., Haukeland University Hospital Bergen, Norway
2004-2012	Researcher, Dept. of Biological and Medical Psychology, University of Bergen, Norway
2003-2004	PostDoc, Neurological Clinic, University Hospital Aachen & Institute of Medicine, Research Centre Jülich, Germany
2000-2003	Researcher, Medical Centre Bonn, Bonn, Germany

## Project management experience

Year	Project owner - Project - Role - Funder
2018-2023	UiB; <b>“Re:State: “When default is not default”</b> ; PI; Research Council of Norway, FRIPRO ToppForsk (23 Mio NOK (~2.5 mil. €); 3 PhD, 2 PostDoc)
2012-2016	UiB; <b>“Its time for some music”</b> ; PI; Research Council of Norway (9 Mio NOK (~1.1 mil. €); 2 PhD, 1 PostDoc)
2007-2014	UiB; <b>“BeRG-AP”</b> ; PI; Starting Grant by the Bergen Research Foundation (12 Mio NOK (~1.5 mil. €); 2 PhD)

## Supervision of students

Master's students	Ph.D. students	University/institution - Country
32	10 (main), 11 (co)	Thesis are from the field of psychology, neuroscience, or logopedics  Students come from the University of Bergen (Norway), NTNU Trondheim (Norway), UiT/The Arctic University of Norway, Tromsø, Norway, University of Magdeburg (Germany), and University of Aarhus (Denmark)

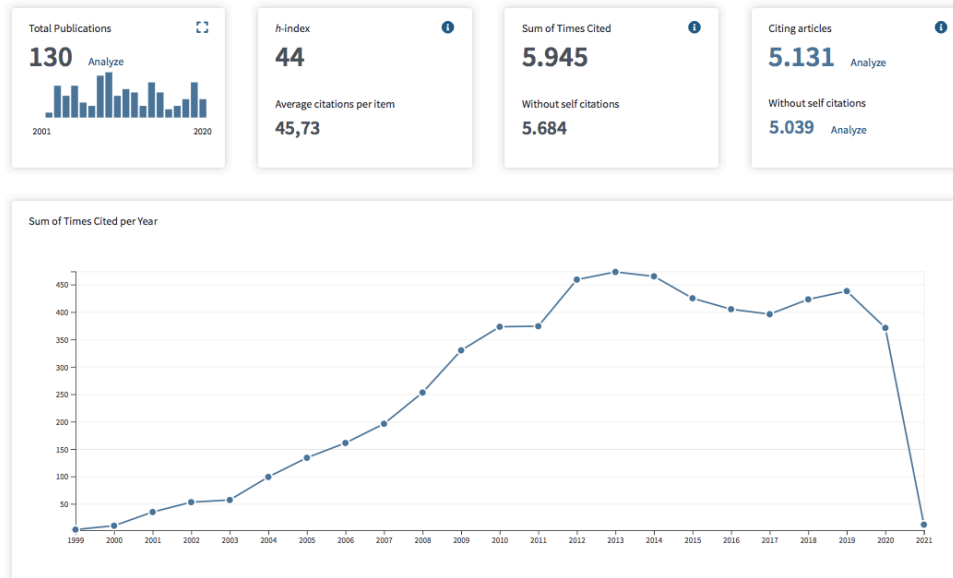
## Other relevant professional experiences

Year	Description - Role
2020	Conference organisation: 25 <sup>th</sup> anniversary of fMRI research in Bergen&Norway (moved to 2021/2 because of corona virus)
2020	Conference organisation: 7 <sup>th</sup> North Sea Meeting on Laterality (moved to 2022 because of corona virus)
2018	Conference organisation & acquisition of funding: Hemispheric Asymmetry and beyond: Auditory neuroscience in language and psychiatry research
2017	Conference organisation & acquisition of funding: Aphasia & Neuroplasticity, University of Bergen, Norway
2014	Conference organisation: Music and Brains, University of Oslo, Norway

# Track record

## 1. Publications

Citation metrics based on ISI Web of Knowledge. The cumulative impact factor is 430.14.



### TEN REPRESENTATIVE PUBLICATIONS AS FIRST OR SENIOR AUTHOR (2011-2020):

Reference	Impact factor	Times cited	Importance
<b>Specht K (2020).</b> <i>Current Challenges in Translational and Clinical fMRI and Future Directions.</i> <u>Front Psychiatry. 10 (2020): 924</u>	<b>3.53</b>	<b>11</b>	The replication crisis at the consequences on clinical fMRI
Vikene K, Skeie GO, <b>Specht K (2019)</b> <i>Subjective judgments of rhythmic complexity in Parkinson's disease: Higher baseline, preserved relative ability, and modulated by tempo.</i> <u>PLoS one 14, e0221752</u>	<b>2.74</b>		A new approach in the examination of PD patients
Kandilarova S, Stoyanov D, Sirakov N, Maes M, <b>Specht K (2019)</b> <i>Reduced grey matter volume in frontal and temporal areas in depression: contributions from voxel-based morphometry study.</i> <u>Acta Neuropsychiatr 31 (2019): 252-257</u>	<b>2.33</b>	<b>20</b>	Examination whether mood disorders are accompanied by structural changes in the brain
Specht K & Wigglesworth P (2018). <i>The functional and structural asymmetries of the superior temporal sulcus.</i> <u>Scandinavian Journal of Psychology, 59, 74-82</u>	<b>1.29</b>	<b>5</b>	A multimodal study on a human specific structural and functional asymmetry
Hugdahl, K., Raichle, M. E., Mitra, A., <b>Specht, K.</b> (2015). <i>On the existence of a generalized non-specific task-dependent network.</i> <u>Frontiers in Human Neuroscience, 9, 1-15</u>	<b>3.60</b>	<b>44</b>	Theoretical article on a generalized network
Abel S, Weiller C, Huber W, Willmes K, <b>Specht K</b> (2015). <i>Therapy-induced brain reorganisation patterns in aphasia.</i> <u>Brain, 138, 1097-1112</u>	<b>9.20</b>	<b>51</b>	Application of a new analysis method for analysing lesion data
Hjelmervik H, Hausmann M, Osnes B, Westerhausen R, <b>Specht K</b> (2014). <i>Resting states are resting traits – An fMRI study of sex differences and menstrual cycle effects in resting state cognitive control networks.</i> <u>PLoS ONE, 9: e103492</u>	<b>3.53</b>	<b>51</b>	One of the first studies, testing the stability of resting-state networks
<b>Specht, K</b> (2014) <i>Neuronal basis of speech comprehension.</i> <u>Hearing Research, 307: 121-135</u>	<b>2.97</b>	<b>40</b>	Comprehensive review article
<b>Specht, K</b> (2013). <i>Mapping a lateralization gradient within the ventral stream for auditory speech perception.</i> <u>Frontiers in Human Neuroscience 7: 629</u>	<b>3.60</b>	<b>17</b>	Summary of recent own studies, modelling the ventral stream
Osnes B, Hugdahl K, <b>Specht K.</b> (2011). <i>Effective connectivity analysis demonstrates involvement of premotor cortex during speech perception.</i> <u>NeuroImage 54: 2437-2445</u>	<b>6.36</b>	<b>63</b>	Applying dynamic causal modelling for exploring speech perception processes

## **2. Research monographs (book chapter - utvalg)**

Heim S & **Specht K** (2019). *Studying Language with functional Magnetic Resonance Imaging (fMRI)*. Oxford Handbook of Neurolinguistics

Solbakk AK, **Specht K**, Korsnes MS, Endestad T (2010). *FMRI i nevropsykologisk forskning og klinisk praksis*. In: Klinisk nevropsykologisk undersøkelse av voksne pasienter, K. Hestad, J Egeland (Edit). Tapir akadmeisk forlag, 2010, 157-176

Hugdahl, K. & **Specht, K** (2008/2017). *Hjerneavbildningsteknikker avslører avvik i den dyslektiske hjerne*. In: Lesevansker og livsvansker, F.E.Tønnessen, E. Bru, E. Heievang (Edit.), Hertervig Akademisk, 2008, 67-84

## **3. Research monographs and any translations thereof**

Not applicable

## **4. Granted patent(s)**

Not applicable

## **5. Invited presentations to peer-reviewed, internationally established conferences and/or international advanced schools (selection)**

2020 Keynote lecture at the Norwegian Conference on Music Therapy

2017 Keynote lecture at the Norwegian Conference of national service for special needs education, Oslo; <https://www.youtube.com/watch?v=GwPF-oiKgsg&sns=fb>

2016 Lecture at Summer School on Cognitive Neuroscience in Helsinki

2016 Invited talk at “Novel Approaches to Independent Component Analysis of Resting-State and Task-Base”, Oxford

2015 Invited lecture, Institute of Psychology, University of Zürich

2014 4st North Sea Meeting on Brain Asymmetries, Durham, UK: “The Superior Temporal Sulcus: An asymmetric, multifunctional and cross modal hub

2011 Invited talk, Symposium "Auditory Neuroimaging", Hanse-Wissenschaftskolleg, Delmenhorst

2008: 14<sup>th</sup> annual meeting of the Organisation for the Human Brain Mapping, Melbourne, Australia: “Tracing the recovery of aphasia with a joint ICA of functional and structural data”

2008: “Psychologie und Gehirn”, Magdeburg, Germany: “When a sound becomes speech”