

Personal details

Full name: Cornelis Pieter (Cris) Lanting
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Personal profile

Abstract thinking, ambitious, creative, team player, social, reliable, and analytical.

Positions and education

2013–now CLINICAL PHYSICIST-AUDIOLOGIST IN TRAINING at the University Medical Center Groningen, Dept. of Otorhinolaryngology and PENTO AC Zwolle
 2013–2014 POSTDOC at the University Medical Center Groningen, Dept. of Otorhinolaryngology
 2009–2013 CAREER DEVELOPMENT FELLOW at the MRC Institute of Hearing Research, Nottingham, UK.
 2005–2009 PhD at the Faculty of Medical Sciences, University of Groningen, The Netherlands.
 Thesis: '[Functional Magnetic Resonance Imaging of Tinnitus](#).' Supervisors: Dr.ir. E. de Kleine and Prof.dr. P. van Dijk.
 1999–2005 MSc APPLIED PHYSICS, Faculty of Mathematics and Natural Sciences, University of Groningen, The Netherlands. Masters thesis: 'Perfusion Imaging using Arterial Spin Labeling'. Supervisors: Dr. J.M. Hoogduin and Prof.dr.ir. H. Duifhuis.
 2004 RESEARCH ASSISTANT at the 'Science Shop Physics', Groningen.
 1993–1999 PRE-UNIVERSITY EDUCATION – Wessel Gansfort College, Groningen.

Scholarships, grants and prizes

2011 Nominated for best PhD Thesis 2010 by the School for Behavioral and Cognitive Neurosciences (BCN), University of Groningen, The Netherlands.
 2011 Guarantors of Brain Travel Grant (£800).
 2010 Guarantors of Brain Travel Grant (£500).
 2010 Thesis grants (total of €3500).
 2009–2010 [First place in the top 25 Hottest Articles to appear in Hearing Research](#) for the paper 'Neural activity underlying tinnitus generation: results from PET and fMRI'

Other courses

2011 Course supervising PhD students
 2010 Writing Scientific Papers and Reports, November 3–4, 2010; Writing Proposals for Funding, September 30, 2010; Presentation Skills, June 28–29, 2010.
 2009 Project Management, December 8, 2009, London.

2007 NWO course 'Write it Right'.
 2006 Helmholtz PhD course Neurosensory Systems, July 3–14, 2006, Utrecht.

Publications

See <http://www.rug.nl/staff/c.p.lanting/research> or <https://crisly.github.io/resume> for the most recent updates.

ARTICLES EN REPORTS

- 2014 C.P. Lanting, E. de Kleine, D.R.M. Langers, P. van Dijk; 'Unilateral Tinnitus: Changes in Connectivity and Response Lateralization Measured with fMRI.' *PloS one* 9(10):e110704. doi: [10.1371/journal.pone.0110704](https://doi.org/10.1371/journal.pone.0110704). Citations: 3
- 2012 C.P. Lanting, 'Ik hoor, ik hoor wat jij niet hoort'; Nederlandse vereniging medische beeldvorming en radiotherapie, april 2013; jaargang 63, nummer 2. <http://www.nvmbr.nl/>
- 2012 C.P. Lanting, P. Briley, C. Sumner, K. Krumbholz; 'Mechanisms of adaptation in human auditory cortex.' *Journal of Neurophysiology*. doi: [10.1152/jn.00547.2012](https://doi.org/10.1152/jn.00547.2012). Citations: 17
- 2010 C.P. Lanting, R.N. Eppinga, E. de Kleine, P. van Dijk; 'Neural correlates of human somatosensory interaction in tinnitus.' *Hear Res* 267(1–2):78–88. doi: [10.1016/j.heares.2010.04.006](https://doi.org/10.1016/j.heares.2010.04.006). Citations: 32
- 2010 A. Crippa, C.P. Lanting, P. van Dijk, J.B.T.M. Roerdink; 'A diffusion tensor imaging study on the auditory system and tinnitus.' *Open Neuroimag J*. 4:16–25. doi: [10.2174/1874440001004010016](https://doi.org/10.2174/1874440001004010016). Citations: 27
- 2009 C.P. Lanting, E. de Kleine, P. van Dijk; 'Neural activity underlying tinnitus generation: functional neuroimaging results.' *Hear Res* 255(1–2):1–13. doi: [10.1016/j.heares.2009.06.009](https://doi.org/10.1016/j.heares.2009.06.009). Citations: 154
- 2008 C.P. Lanting, E. de Kleine, H. Bartels, P. van Dijk; 'Functional imaging of unilateral tinnitus using fMRI.' *Acta Otolaryngol*. 2008; 128(4):415–21. doi: [10.1080/00016480701793743](https://doi.org/10.1080/00016480701793743). Citations: 80
- 2003 C.P. Lanting, G.P. van den Berg, 'Op zoek naar stilte, indicatoren van stilte in De Wieden/De weerribben, NP Utrechtse heuvelrug en de Zak van Zuid-Beveland', NWU-114, 2003, Rijksuniversiteit Groningen.

MANUSCRIPTS IN PREPARATION

- 2015 C.P. Lanting, L.W. Robinson, K. Krumbholz; 'Adaptation in the late auditory-evoked cortical potentials suggests that neural frequency selectivity in humans is exceedingly sharp.' *PNAS* (submitted).
- 2015 H. Gilbert, C.P. Lanting, K. Krumbholz; 'Quantitative measures of binaural masking release using electroencephalography (EEG)' *Journal of Neurophysiology* (submitted).

BOOKS, OR CONTRIBUTIONS TO BOOKS

- 2015 C.P. Lanting, A. Wozniak, P. van Dijk, D.R.M. Langers; "Tinnitus- and Task-Related Differences in Resting-State Networks"; in *Advances in Experimental Medicine and Technology, "Physiology, Psychoacoustics and Cognition in Normal and Impaired Hearing"*; edited by P. van Dijk, D. Baskent, E. Gaudrain, E. de Kleine, A. Wagner and C. Lanting. (in preparation)
- 2012 Deborah A Hall, Cornelis P Lanting, Douglas E.H. Hartley; "Using fMRI to examine central auditory plasticity"; in *"Functional Magnetic Resonance Imaging"*; edited by D. Papageorgiou ISBN: 978-953-307-669-0. InTech Open Access Publisher.
- 2010 C.P. Lanting; 'Functional Magnetic Resonance Imaging of Tinnitus.' Ph.D. dissertation; ISBN 978-90-367-4258-0.

ORAL PRESENTATIONS AND POSTER PRESENTATIONS

- 2015 C.P. Lanting, A. Wozniak, P. van Dijk, D.R.M. Langers; 'Tinnitus- and Task-Related Differences in Resting-State Networks'. 17th International Symposium on Hearing (ISH), June 15–19 2015, Groningen, The Netherlands.

- 2015 C.P.Lanting, A.Wozniak, P. van Dijk and D.R.M.Langers; 'Tinnitus-related abnormalities in brain networks during stimulated and resting states'. 18th meeting of the Deutsche Gesellschaft für Audiologie, March 5-7 2015, Bochum, Germany.
- 2014 C.P. Lanting, E. de Kleine, D.R.M.Langers and P. van Dijk; 'Unilateral tinnitus: changes in connectivity measured with fMRI'. 5th International Conference on Auditory Cortex, September 13-17 2014, Magdeburg, Germany.
- 2014 C.P.Lanting. 'Functional magnetic resonance imaging and tinnitus: from measuring sound-evoked responses to connectivity'. Seminar series, University of Oldenburg, Germany, July 10, 2014. (Invited lecture).
- 2014 C.P. Lanting, K. Boyen, E. de Kleine, D. Langers, and P. van Dijk. 'Reduced connectivity between brainstem and cortex in patients with tinnitus'. Wetenschappelijke bijeenkomst werkgemeenschap Auditief Systeem (WAS-dag), Leuven, Belgium, May 14, 2014.
- 2012 C.P. Lanting and K. Krumbholz; 'Non-invasive EEG and fMRI measures of frequency selectivity in human auditory cortex'. 4th International Conference on Auditory Cortex, August 31st - September 3rd 2012, Lausanne, Switzerland.
- 2011 C.P. Lanting; 'Measures of frequency selectivity in human auditory cortex - a multi-modal approach'. Workshop auditory neuroimaging, Delmenhorst, September 23, 2011 (Invited lecture).
- 2011 C.P. Lanting, S. Francis, R. Bowtell and K. Krumbholz; 'Frequency selectivity and local map structure in human auditory cortex measured with 7 Tesla fMRI'. BSA annual conference, Nottingham, United Kingdom, September 7-9, 2011.
- 2011 C.P. Lanting, S. Francis, R. Bowtell and K. Krumbholz; 'Frequency selectivity and local map structure in human auditory cortex measured with 7 Tesla fMRI'. OHBM 17th annual meeting, Quebec City, Canada; June 26-30, 2011.
- 2010 C.P. Lanting, K. Krumbholz; 'Using an adaptation paradigm to measure the resolution of frequency tuning in human auditory cortex'. BSA annual conference, Manchester, United Kingdom, September 9-10 2010.
- 2010 C.P. Lanting, P. Briley, K. Krumbholz; 'Stimulus specificity of adaptation in human auditory cortex'. OHBM 16th annual meeting, Barcelona, Spain, June 6-10 2010.
- 2009 C.P. Lanting, R. Eppinga, E. de Kleine, P. van Dijk; 'Somatosensory input to the auditory pathway in humans, an fMRI study'. 3rd Tinnitus Research Initiative Meeting, Stresa, Italy, June 24-26, 2009.
- 2008 C.P. Lanting, E. de Kleine, P. van Dijk; 'The response to sound of auditory brain areas in tinnitus patients'. ARCHES meeting, Haarlem, The Netherlands, November 24-25, 2008.
- 2008 C.P. Lanting, E. de Kleine, P. van Dijk; 'Somatosensory interaction in the auditory pathway in humans, an fMRI study'. IXth International Tinnitus Seminars, Göteborg, Sweden, June 15-18, 2008.
- 2008 E. de Kleine, C.P. Lanting, P. van Dijk; 'Enhanced fMRI responses to sound in patients with unilateral tinnitus'. IXth International Tinnitus Seminars, Göteborg, Sweden, June 15-18, 2008.
- 2008 C.P. Lanting, E. de Kleine, P. van Dijk; 'Increased fMRI responses to sound in the inferior colliculus and medial geniculate body in patients with unilateral tinnitus'. 31st ARO midwinter meeting 2008, Phoenix, Arizona, USA.
- 2007 C.P. Lanting, E. de Kleine, P. van Dijk; 'Functional Imaging of tinnitus, A study of tinnitus with unilateral tinnitus patients and normal hearing subjects'. Wetenschappelijke bijeenkomst werkgemeenschap Auditief Systeem (WAS-dag), Groningen, May 16, 2007.
- 2007 C.P. Lanting; 'Functional Imaging of tinnitus, A study of tinnitus with unilateral tinnitus patients and normal hearing subjects'. Eaton Peabody Laboratory of auditory physiology, Boston, Massachusetts, USA, February 23, 2007.
- C.P. Lanting, E. de Kleine, H. Bartels, D.R.M. Langers, P. van Dijk; 'Cortical and subcortical fMRI of unilateral tinnitus'. 30th ARO Midwinter Meeting 2007, Denver, Colorado, USA.

Education and supervision

- 2015 Supervision of a master student (J.Mensink, Biomedical Engineering, Pento AC Zwolle)
- 2013-now Supervision of two PhD student (E. Koops, M. van Dijk; University of Groningen)
- 2013-2014 Supervision of two master students (A. Wozniak, Biomedical Engineering & E. Koops, BCN Research Master) and one audiologist-in-training (G.Hoskam)
- 2014 Organizer and tutor course BCN Mathematics for Neuroscientists

2011–2012 Supervision of one bachelor student (L. Robinson, Neuroscience; University of Nottingham)
 2010–now Supervision of two PhD students (H. Gilbert, G. Hutchinson; MRC IHR Nottingham).
 2008–2009 Supervision of one bachelor student (R. Eppinga, ‘Junior Scientific Master-class’ Medicine, University of Groningen).
 2007–2009 fMRI Course for the Research master School for Behavioral and Cognitive Neurosciences (BCN), University of Groningen, The Netherlands. Description: Supervision of PhDs and masters’ students in designing, performing and analysis of fMRI experiments.
 2007 Education for a broad public for the Brain Awareness Week, Groningen, March 16, 2007.

Social activities and qualifications

2015–now Member of the board of KLIFOP (Clinical Physicists in training).
 2011–2013 Member of the Brain & Body Centre of the University of Nottingham.
 2011 Member of the Organization for Human Brain Mapping (OHBM).
 2006–now International Association for Research in Otolaryngology (ARO).
 2007–now Freelance (voluntary) graphical design at [EducAIDed](#).
 2002–2009 Board member at korfbal club C.K.V. Argo, Bedum and board member communication korfbal club C.K.V. ROG, Groningen.
 2002–2004 Student member educational committee Master Biomedical Engineering.

Reviewing activities

Nature, PLoS One, Journal of Neuroscience Methods, Neuroimage, HBM, Neural plasticity, Brain Research, Brain Stimulation, Audiology and Neurotology, Clinical Neurophysiology, & Hearing Research.

Miscellaneous

Language skills: Dutch (native), English (fluent), German (basic).
 Computer skills:
 - OSs : Linux, OS X, Windows.
 - Data processing: Matlab (SPM, EEGLab), FSL, FreeSurfer, Python.
 - Editing, Typesetting: MS Office, L^AT_EX; Adobe Illustrator, InDesign, and Photoshop.
 Avocations: photography (see www.flickr.com/photos/crisly/), hiking, outdoor activities, sports, reading.

References

Dr. K. Krumbholz
 Programme Leader ‘Auditory processing and encoding’
 MRC Institute of Hearing Research
 Nottingham, United Kingdom
 e-mail: katrin@ihr.mrc.ac.uk

Prof. dr. P. van Dijk
 Professor in Audiology
 Department of Otorhinolaryngology / Head and Neck Surgery, University Medical Center Groningen, The Netherlands.
 e-mail: p.van.dijk@umcg.nl

other references: on demand

<http://crisly.github.io/docs/encvlanting.pdf>

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Information may be subject to change.