

## **CURRICULUM VITAE**

### **Personalia**

Name: Nina Davids  
Nationality: Dutch  
E-mail: n.davids@kentalis.nl

### **Employment and Education**

2011-now

Senior researcher at Royal Dutch Kentalis, Sint-Michielsgestel, The Netherlands. I am working for the project called 'Kentalis Kids Lab: language in the toddler brain'. In this project, we study language processing in 5-year-old children with Specific Language Impairments. Phonological, semantical, and syntactic abilities of the children are measured by using behavioral and ERP tasks. The other researchers of the project are Dr. Marjolijn van Weerdenburg, Prof.dr. Harry Knoors, and Prof.dr. Ludo Verhoeven. In this project, we collaborate with Auditory Diagnostic Centers in Sint-Michielsgestel, The Hague, and Eindhoven (all in the Netherlands) and the Behavioural Science Institute (Radboud University Nijmegen, The Netherlands). June 2011 - now.

2009-2011

Research coordinator of the REACH project (Research Examining Aging and Cognitive Health) in the D'Esposito lab at the Helen Wills Neuroscience Institute at the University of California Berkeley, USA. The REACH project focused on how goal-directed behavior could be improved in a healthy aging population, 60-80 years old. The effect of three different interventions was assessed by neuropsychological measures, fMRI brain scans, and functional behavioral tests. DNA samples were also administered. My task was to have a clear overview of the entire study, coordinate and organize all parts of the study, do test sessions, and analyze data. The lead researchers of this project were Dr. Gary Turner and Prof.dr. Mark D'Esposito. October 2009 – March 2011.

2005-2009

PhD student at the Behavioural Science Institute and Donders Institute for Brain, Cognition and Behaviour (Radboud University Nijmegen, The Netherlands). The topic of my PhD research was to study auditory perception in children with Specific Language

Impairment and children with Cerebral Palsy, using ERPs. Paradigms were pre-tested and studied carefully in healthy adults. The EEG-recordings of the children were performed in our mobile EEG-lab (mini-van), which I also set up. My supervisors were Prof.dr. Ludo Verhoeven, Prof.dr. Peter Hagoort, Dr. Daniëlle van den Brink, and Prof.dr. Hans van Balkom. The project belonged to the program "Kids Learning to take INitatives in communication (KLINc)", which was part of the larger program "In-com-clusie" ([www.incomclusie.nl](http://www.incomclusie.nl)). The project was funded by the European Union (Interreg) and Viataal (Sint-Michielsgestel, The Netherlands). January 2005 – December 2009.

2004-2005

Junior researcher at the Behavioural Science Institute (group: Learning and Plasticity; Radboud University Nijmegen, The Netherlands). My task was to do a literature study and to write a research proposal about neurocognitive research on reading and communication in multiple disabled children. September 2004 - January 2005.

2004

Research Assistant at the department of Neurocognition, University Maastricht, The Netherlands. My task was to perform an ERP study with dyslexic and typically developing children of 8/9 years old and to analyze their behavioral and EEG data. June - September 2004.

2004

Student Assistant at the Baby Research Centre and at the group of speech comprehension of the Max Planck Institute for psycholinguistics (Nijmegen, The Netherlands). At the Baby Research Centre I did behavioral studies with infants from 5 to 30 months old. Moreover, I studied language processing in adults by recording ERPs. March - September 2004.

2003

Diagnostic internship at the department of Child Auditory Centre at the Radboud University Medical Centre in Nijmegen, The Netherlands. I performed psychological tests with children from 2½ to 7 years old who had speech and language disorders and I reported the test sessions. June - August 2003.

2002-2003

Research internship at the department of Neurocognition, University Maastricht, The Netherlands. I studied the time course of semantic and phonological information

processing during implicit picture naming in children of 8/9 years old, by using ERPs (N200). I was supervised by Leo Blomert and Bernadette Jansma. May 2002 - July 2003.

2002

Student Assistant at the department of Neurocognition, University Maastricht, The Netherlands. I performed an EEG experiment with children of 5/6 years old, which focused on language comprehension and I studied language processing in adults by performing two behavioral and one EEG experiment. January - December 2002.

2001

Student Assistant at the department of Experimental Psychology, University Maastricht, The Netherlands. My task was to provide information to participants who participated in a study about weight loss. Moreover, I processed the data from questionnaires. September - December 2001.

2000

Tutor of Statistics at the faculty of Psychology, University Maastricht, The Netherlands. I was a tutor of a statistics course for second-year students. October - December 2000.

1998-2003

Study Psychology with Specialization in Biological Developmental Psychology at the University Maastricht, The Netherlands.

## **Publications**

### **Papers**

Nina Davids, Daniëlle van den Brink, Miranda van Turenout, & Ludo Verhoeven (in press). Task-related Influences on Neurophysiological Assessment of Auditory Rhyme: Implications for Clinical Studies. *Clinical Neurophysiology*.

Nina Davids, Eliane Segers, Daniëlle van den Brink, Holger Mitterer, Hans van Balkom, & Ludo Verhoeven (2011). The nature of auditory discrimination problems in children with Specific Language Impairment: an MMN study. *Neuropsychologia*, 49 (1), 19-28.

Nina Davids, Daniëlle van den Brink, Miranda van Turenout, Holger Mitterer, & Ludo Verhoeven (2009). Towards Neurophysiological Assessment of Phonemic

Discrimination: Context Effects of the Mismatch Negativity. *Clinical Neurophysiology*, 120(6), 1078-1086.

Nina Davids, Daniëlle van den Brink, Hans van Balkom, Jan de Moor, Holger Mitterer, Miranda van Turenout, & Ludo Verhoeven (2008). Neuraal perspectief op leesvoorwaarden bij kinderen met cerebrale parese. In Hans van Balkom & Jan Knoops (Eds.), *In-com-clusie: Inclusie door communicatieontwikkeling en -ondersteuning*. Leuven: Acco.

*In preparation*

Nina Davids, Daniëlle van den Brink, Holger Mitterer, Jan de Moor, Hans van Balkom, & Ludo Verhoeven (in preparation). Phonemic discrimination in children with Cerebral Palsy: a neural perspective.

## **Talks**

Nina Davids, Eliane Segers, Daniëlle van den Brink, Holger Mitterer, & Ludo Verhoeven (2008). Auditory discrimination in children with SLI: an ERP study. *5th European Graduate School on Literacy Research, Egmond aan Zee, The Netherlands*.

Nina Davids, Daniëlle van den Brink, Holger Mitterer, Jan de Moor, Hans van Balkom, & Ludo Verhoeven (2008). Assessing language and literacy development of children with disabilities: using the EEG method. *International Society for Augmentative and Alternative Communication (ISAAC), Montreal, Canada*.

Eliane Segers, Nina Davids, & Ludo Verhoeven (2008). Origins of Phonological Awareness in Children with Specific Language Impairment: A Neurocognitive Perspective. Society for the Scientific Study of Reading (SSSR), Asheville, USA.

Nina Davids, Eliane Segers, Barbara Wagenveld, Holger Mitterer, Daniëlle van den Brink, Peter Hagoort, & Ludo Verhoeven (2008). Auditory discrimination in children with Specific Language Impairment: An ERP study. *Workshop Dyslexia: precursors and remediation software (chaired by Willy Serniclaes), Behavioural Science Institute, Nijmegen, The Netherlands*.

Nina Davids, Eliane Segers, Barbara Wagenveld, Holger Mitterer, Daniëlle van den Brink, Peter Hagoort, & Ludo Verhoeven (2008). Auditory discrimination in children with Specific Language Impairment: An ERP study. *Workshop Language Development and Event-Related brain Potentials (chaired by Natasha Tokowicz), Behavioural Science Institute, Nijmegen, The Netherlands.*

Nina Davids, Daniëlle van den Brink, Jan de Moor, Hans van Balkom, Holger Mitterer, Miranda van Turenout, & Ludo Verhoeven (2007). Neural perspective on precursors of learning to read in children with cerebral palsy. *International Society for Augmentative and Alternative Communication - Nederlandse Federatie (ISAAC-nf), Sint-Michielsgestel, The Netherlands.*

Nina Davids, Daniëlle van den Brink, Jan de Moor, Hans van Balkom, Holger Mitterer, Miranda van Turenout, & Ludo Verhoeven (2007). Neural perspective on precursors of learning to read in children with cerebral palsy. *External Review meeting Kids Learning to take INitatives in Communication (KLINC), Ravenstein, The Netherlands.*

Nina Davids, Holger Mitterer, Miranda van Turenout, & Ludo Verhoeven (2007). The MMN as a diagnostic tool for speech perception. *Endo-Neuro-Psycho (ENP) Meeting, Doorwerth, The Netherlands.*

Nina Davids, Miranda van Turenout, Hans van Balkom, Jan de Moor, Holger Mitterer, & Ludo Verhoeven (2006). Neural perspectives on early literacy in children with cerebral palsy and little or no functional speech. *Earlyaid, BOSK Vereniging van motorisch gehandicapten en hun ouders, Papendal, The Netherlands.*

Nina Davids, Miranda van Turenout, Hans van Balkom, Jan de Moor, Holger Mitterer, & Ludo Verhoeven (2006). Neural perspectives on early literacy in children with cerebral palsy and little or no functional speech. *International Society for Augmentative and Alternative Communication (ISAAC), Düsseldorf, Germany.*

Nina Davids, Miranda van Turenout, Hans van Balkom, Jan de Moor, Holger Mitterer, & Ludo Verhoeven (2006). Neural perspectives on early literacy in cerebral palsy children with little or no functional speech. *Literacy development and Literacy Problems (chaired by Margaret Snowling), Behavioural Science Institute, Nijmegen, The Netherlands.*

## **Poster Presentations**

Nina Davids, Eliane Segers, Daniëlle van den Brink, Holger Mitterer, Hans van Balkom, & Ludo Verhoeven (2009). The nature of discrimination problems in children with Specific Language Impairment: an MMN study. *Association for Psychological Science (APS) 2009, San Francisco, USA.*

Nina Davids, Daniëlle van den Brink, Holger Mitterer, Hans van Balkom, Jan de Moor, Miranda van Turenout, & Ludo Verhoeven (2008). Phonemic discrimination in children with cerebral palsy. *Annual Meeting of the Cognitive Neuroscience Society (CNS) 2008, San Francisco, USA.*

Nina Davids, Holger Mitterer, Miranda van Turenout, & Ludo Verhoeven (2007). Is the Mismatch Negativity to phonemic stimuli context-dependent? *Annual Meeting of the Cognitive Neuroscience Society (CNS) 2007, New York, USA.*

Nina Davids, Holger Mitterer, Miranda van Turenout, Jan de Moor, Hans van Balkom, & Ludo Verhoeven (2006). Neural perspectives on early literacy in cerebral palsy children with little or no functional speech. *International Society for Augmentative and Alternative Communication (ISAAC), Düsseldorf, Germany.*

Nina Davids, Holger Mitterer, Miranda van Turenout, Jan de Moor, Hans van Balkom, & Ludo Verhoeven (2005). Fonologisch bewustzijn in kinderen met cerebrale parese met weinig tot geen functionele spraak: een neurale perspectief. *Acquisition and processing of signed and spoken languages, Mgr. J.C. van Overbeekstichting, Sint-Michiëlsgestel, The Netherlands.*

## **Others**

Colloquium / workshop with live EEG recording:

Nina Davids & Barbara Wagensveld (2008). How does measuring brain activity work and how can it be applied to study language in children with SLI? *Research master Behavioural Science Institute, Nijmegen, The Netherlands.*

Janet van Hell, Marijt Witteman, & Nina Davids (2008). The brain: live ERP meeting. *Brain Awareness Week, Nijmegen and Warnsveld, The Netherlands.*

Nina Davids, Pascal Brenders, & Barbara Wagensveld (2007). What is ERP and how does it work? *Behavioural Science Institute, Nijmegen, The Netherlands.*

Pascal Brenders & Nina Davids (2006). Language in the brain: live ERP meeting.  
*Didaktief-jubileumcongres Cijfers & Letters, Den Haag, The Netherlands.*