

## CURRICULUM VITAE

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Place of birth: Oudewater  
Date of birth: 19/1/1954  
Citizenship: Dutch

### Education History:

1973	Gymnasium $\beta$ , Gouda	
1976	BA Psychology (cum laude)	University of Utrecht
1977	BA Biology (equivalent)	University of Utrecht
1982	MSc. Experimental Psychology (cum laude)	University of Nijmegen
1990	Ph.D.	University of Nijmegen

### Professional History:

1981-1985: Research Assistant, Max Planck Institute for Psycholinguistics

1986 (January - April). University of Cambridge (England):  
Visiting Scholar at the Department of Experimental Psychology  
on a grant from the European Science Foundation.

1986-1990: Ph.D. research at the Max Planck Institute for Psycholinguistics,  
supported by a dissertation grant from the Max Planck Gesellschaft zur  
Förderung der Wissenschaften.  
Dissertation (1990): *Tracking the time course of language understanding in  
aphasia.*

1990-2003: Head Research Project “Neurocognition of Language Processing”  
at the Max Planck Institute for Psycholinguistics.  
External funding for this project was acquired from  
the Volkswagenstiftung, the Netherlands Organization for Scientific

Research (NWO), and the Max Planck Society.  
Next to standard psycholinguistic techniques (e.g., RT measures), this research project exploited electrophysiological measures (ERPs) and other brain imaging techniques (MEG, PET, fMRI) for investigating the cognitive and neural architecture of the intact language system and of language disorders (aphasia, dyslexia).

- 1997 (June) McDonnell-Pew visiting scholar at the Center for Research in Language, University of California at San Diego (UCSD).
- 1998 (February/April): The Graduate School of the City University New York (CUNY) offered the position of Distinguished Professor in Speech and Hearing Sciences.
- 1998 (May): Ranked number one by the "benoemingsadviescommissie" for a professorship in neuropsychology at the University of Nijmegen.
- 1998 (October): University of Leiden offered the chair in experimental psychology and cognitive neuropsychology.
- 1999 -2004: Full Professor of Neuropsychology at the University of Nijmegen.
- 1999 - present: Director *F.C. Donders Centre for Cognitive Neuroimaging*.  
PI and Head research group "Neurocognition of Language" (currently: 10 Ph.D.'s, 5 postdocs).
- 2003 – present: University Affiliate of the Max Planck Institute for Psycholinguistics
- 2004 - present: Full professor in Cognitive Neuroscience at the Radboud University Nijmegen.
- 2004 – present: Guest Professor in Cognitive Neuroscience at the University of Zagreb (Croatia)

### **Professional Activities:**

- Reporter for the Dutch national newspaper *Trouw* in Surinam (Dutch Guyana) (1980).
- Founder and chairman of the Society Grafiet (1980-2004). This society published edited books in the fields of social and cognitive sciences. Editor of the series (1980-1995).
- Founder and member of the Wittgenstein Society (1980-2002). The members of this society studied and discussed the foundations of cognitive science.
- Member of the Netherlands Organization for Scientific Research (NWO) granting boards "Language and Memory", "Psychophysiology", and "Neuropsychology" (1986-1995).
- Organizer formal colloquium series of the Max Planck Institute (1992-1996).
- Founder and member of the organizing committee of the *F.C. Donders Lectures on Cognitive Neuroscience* (on behalf of the Max Planck Institute for Psycholinguistics, the Nijmegen Institute of Cognition and Information, and the F.C. Donders Centre) (1993-present).
- Co-organizer (together with C. Brown, T. Coenen, and H. Kolk) of the first European

Summerschool on Cognitive Neuroscience, Berg en Dal, 1994, financially sponsored by the Max Planck Gesellschaft, the Nijmegen Institute of Cognition and Information (NICI), the Netherlands Organization for Scientific Research (NWO), and the European Brain and Behavior Society (EBBS).

- Organizer of the International Workshop on Parsing (together with C. Brown en W. Vonk), Max Planck Institute, October 1994.

- Organizer of the workshop (together with C. Brown (MPI) and M. Rugg (U. of St. Andrews)) "ERPs in neuropsychology: Problems and potentials". San Diego, November 1995.

- Organizer of the symposium "Neurocognition of Language: PET and ERP evidence" at the 8th world congress of the International Organization of Psychophysiology (IOP). Tampere (Finland), June 1996.

- Member of the Nominations Committee of the Society for Psychophysiological Research (1996).

- Member of the advisory committee on Cognitive Science ("Verkenningcommissie Cognitiewetenschappen") for the Dutch Ministry of Science and Education (1996-1997).

- Member of the program committee of the Academy of Aphasia (1997-2000).

- Chairman of the Research Facility Committee of the Max Planck Institute, (1997-2000).

- Member and coordinator of the advisory committee on a nationwide facility for brain imaging (1998-1999) for the Dutch Ministry of Science and Education (OC&W), and the Netherlands Organization for Scientific Research (NWO).

- Co-organizer and chairman of the scientific debate on language and the brain, on the occasion of the 60th birthday of W.J.M. Levelt, director Max Planck Institute for Psycholinguistics. Nijmegen, May 1998.

- Member "structuurcommissie leerstoel Cognitieve Neurowetenschap". University of Maastricht, 1998.

- Member "benoemingscommissie leerstoel Cognitieve Neurowetenschap" University of Maastricht, 1998-1999.

- Organizer of the Symposium "The neurocognition of syntax." 7<sup>th</sup> International Conference on Cognitive Neuroscience (ICON). Budapest, June 1999.

- Member of the scientific committee of the Volkswagen-Stiftung priority area "Dynamics and Adaptivity of Neuronal Systems" (1999-2004).

- Member "benoemingsadviescommissie leerstoel Anatomie". University Nijmegen, 2000.

- Organizer of the symposium "Imaging and cognition in humans". 4<sup>th</sup> Dutch Endo-Neuro Meeting. Doorwerth, June 2000.

- Organizer of the symposium "Measuring the brain in action". Conference Measuring Behavior 2000: 3rd international conference on methods and techniques in behavioral research.

- Organizer of the symposium "Brain and Cognition". Nijmegen, October 2000.

- Member of the Board of Governors of the “Interfacultaire Werkgroep Taal- en Spraakgedrag (IWTS)” (2000 -present).
- Member of the NWO-Programme Committee *Cognitie* (2001 - 2004).
- Member of the Preparatory Committee of the MSc Programme Cognitive Neuroscience of the University of Nijmegen (2001-2003).
- Chairman evaluation committee for the Programme Plurifacultaire “Langage et communication: Acquisition, traitement et pathologie”, University of Geneva (2002).
- Organizer (together with Bastiaansen, Fries and Jensen) of the workshop “Oscillatory brain dynamics in human cognition”, at the F.C. Donders Centre (November 2002).
- Member of the Board of Directors of the MSc Programme Cognitive Neuroscience of the University of Nijmegen (2003 - present).
- Organizer of the workshop “The architecture of sentence and discourse comprehension”. Nijmegen, August 2003.
- Member “benoemingsadviescommissie leerstoel Psychiatrie”, UMC St. Radboud, 2003.
- Member “structuurcommissie Cognitive Neurosciences”, UMC St. Radboud, 2003.
- Member Social Science Council of the Royal Netherlands Academy of Arts and Sciences (Sociaal Wetenschappelijke Raad; SWR), (November 2003 - present)
- Member DFG-Beirat “funktionelle Magnetresonanz-Tomographie” (External Scientific Advisory Board of the German Science Foundation on fMRI) (2003- present).
- Programme director of “Mind and Brain IV: Images of the working brain”, InterUniversity Centre (IUC), Dubrovnik, Croatia (2003-2004).
- Member “benoemingsadviescommissie leerstoel Neurofysiologie”, UMC St. Radboud, 2004-2005.
- Member “benoemingsadviescommissie leerstoel Moleculaire Neurobiologie”, UMC St. Radboud, 2004-2005
- Chairman of the *Cognitive Neuroscience Centre Nijmegen* (CNCN) of the Radboud University Nijmegen (2004 - present).
- Member of the Board of Governors of the section Behavioral and Social Sciences (Maatschappij en Gedragwetenschappen; MaGW) of the Netherland Organization for Scientific Research (2004 - present).
- Member of the Scientific Board of Advisers of Neuroimage Nord (2004 – present).
- Member of the Scientific Board of Advisers of Brain Imaging Center Frankfurt (2005 - present).

- Member of the evaluation committee of the German Ministry of Education and Research (BMBF) for their program “Cognitive performance and relevant disorders in humans” (2005 - present).

### **Awarded research grants**

1988-1989

Brown, C.M., Hagoort, & Schreuder, R. *Brain potentials and spoken language processing*. Grant from NWO. One full-time research position.

1990-1993

Brown, C.M., Hagoort, P. Schreuder, R. *Electrophysiological correlates of semantic processing*. Grant from NWO. One full-time research position.

1990-1993

Hagoort, P., Brown, C.M., & Levelt, W.J.M. *Using ERPs in search of the functional locus of comprehension deficits in aphasia*. Grant from NWO. One full-time research position.

1990-1993

Brown, C.M., Hagoort, P., & Levelt, W.J.M. *A neurocognitive approach to normal and disordered language comprehension: Brain potentials related to syntactic and semantic processing*. Grant from the Volkswagen Foundation. Hfl. 1.000,000.

1993-1997

Brown, C.M., Hagoort, P., & Levelt, W.J.M. *Neurocognition of language processing*. Grant from NWO. Hfl. 3.100,000.

1998-2002

Brown, C.M., Hagoort, P., Indefrey, P, & Levelt, W.J.M. *Neurocognition of Language Processing Continuation proposal 1998-2002*. Grant from NWO. Hfl. 3.600,000.

1999-2001

Zwitserslood P, & Hagoort, P. *Referenz im Prozess des Sprachverstehens: Ein Forschungs-programm mit ereigniskorrelierten Hirnpotentialen*. Deutsche Forschungs-Gemeinschaft (DFG). One full-time postdoc position, one half-time assistant position.

2000-2003

C. Weiller, P. Hagoort, J-F Démonet et al. *Connectivity and reconnection in stroke and dementia*. The EU 5th Framework Programme. € 847,098.

2000-2003

W. van Heuven, P. Hagoort. T. Dijkstra, & H. Schriefers. *The wiring of the language network in the bilingual brain: fMRI studies on word reading in Dutch-English bilinguals*. McDonnell Pew CNS investigator-initiated grants 2000. Hfl. 380,000.

2000

P. Hagoort & W.J.M. Levelt. *Cognitive neuroimaging: A proposal for an integrated centre for cognitive neuroimaging research in the Netherlands*. Grant from the NWO-Groot investment programme. Hfl. 9.503,000.

2001 - 2005

C.W.M. van Veelen, N.F. Ramsey, P. Hagoort, P.C. van Rijen, G.J.M. Rutten, & F.L.L. Leijten. *Protocol development for pre-surgical non-invasive localization of language functions*. Nationaal Epilepsie Fonds. Hfl. 422,000

2002-2003

P. Hagoort & G. Bleijenberg. *Brain correlates of mental fatigue in chronic fatigue syndrome*. ME-Fonds. € 34,000

2002-2006

P. Hagoort. *The neurophysiology of communication: the integration of gesture and speech*. NWO-Cognition Programme. € 307,886

2004 - 2008

B. Geurts, M. van Lambalgen, J. Buitelaar, P. Hagoort. *Reasoning and the brain*. NWO-Cognition Programme. € 384,760.

2004 – 2008

G. Kempen, J. van Berkum, P. Hagoort. *PLUS: A neurocomputational model for the processing of linguistic utterances based on the unification-space architecture*. NWO-Cognition Programme. € 376,233.

2005 - 2009

H. Bekkering, P. Hagoort, S. Levinson, H. Bülhoff, et al. *Joint-Action Science and Technology (JAST)*. EU Integrated Project, Sixth Framework (Total: € 6.000,000; Hagoort: € 562,638).

2005 – 2006

P. Hagoort, Y. Yang. *The human brain and Chinese prosody*. CAS-KNAW China Exchange Programme. € 37, 445.

2005 - 2008

P. Stoerig, C. Blakemore, P. Hagoort. *Plasticity in the human cerebral cortex: From synaesthesia to sensory substitution in the blind*. VolkswagenStiftung (Total: € 649,900; Hagoort: € 183,900).

**External board member/collaborator of the following research projects:**

- Auditory subcortical and cortical responses through electrical stimulation of the inner ear (Dr. Snik, Prof. van de Broek; Medical School, University of Nijmegen)
- Spatial temporal patterns in primate auditory cortex during sound localization (Dr. van Opstal, Medical School, University of Nijmegen).
- Temporal en neuroanatomical aspects of mental processes as measured via transcranial magnetic stimulation (Prof. de Haan, Psychology, University of Utrecht).
- Neural storms in the emotional brain (Prof. Barendregt, Mathematics, University of Nijmegen)
- Neurological and behavioral disorders of Williams Syndrome patients (Dr. de Zeeuw, Dr. Galjart; Medical School (Dept. of Anatomy and Cell Biology), Erasmus University Rotterdam).

- Pre-surgical fMRI-scanning of language functions in epileptic patients (Dr. Ramsey, Drs. Rutten; Medical School (Dept. of Neurosurgery), University of Utrecht).
- The dynamics of multilingual processing (Dr. Gullberg, Dr. Indefrey, Prof. dr.. Klein), Max Planck Institute for Psycholinguistics.
- Genetic aspects of brain activity patterns during cognitive load (Prof. dr. Willmes, Prof. dr. Boomsma), Rheinisch-Westfälische Technische Hochschule Aachen, Vrije Universiteit Amsterdam.

### **Ph.D. students with completed doctoral dissertations**

- Dorothee Chwilla (May 1996), “The lexical processing nature of the N400 priming effect” (University of Nijmegen).
- Tamara Swaab (June 1996), “The functional locus of comprehension deficits in aphasia: An electrophysiological approach” (University of Nijmegen).
- Miranda van Turenout (November 1997), “The electrophysiology of speaking: Investigations on the time course of semantic, syntactic, and phonological processing” (University of Nijmegen).
- Lea Hald (November 2002). “The integration of semantic versus world knowledge during on-line sentence comprehension” (University of Arizona).
- Daniëlle van den Brink (January 2004). “Contextual influences on spoken-word processing. An electrophysiological approach” (University of Nijmegen).
- Marlies Wassenaar (March 2005). “Agrammatic comprehension: An electrophysiological approach.” (Radboud University Nijmegen).

### **Current Ph.D. students**

- Oliver Müller (1999)
- Valesca Kooijman (2001)
- Nienke Hoogenboom (2002)
- Cathelijne Tesink (2003)
- Roel Willems (2003)
- Floris de Lange (2003)
- Sabine Schneider (2003)
- Giosué Baggio (2004)
- Tineke Snijders (2004)
- Hanneke van Dijk (2004)
- Ali Mazaheri (2004)
- Esther Aarts (2004)
- Marieke van der Linden (2004)
- René Scheeringa (2004)
- Judith Pijnacker (2005)
- Tessa van Leeuwen (2005)

**Scientific societies:**

- Academy of Aphasia
- Cognitive Neuroscience Society (CNS)
- The Dutch Society for Psychonomics (NVP)
- The Dutch Convention of Professors in Neuropsychology
- European Brain and Behavior Society (EBBS)
- European Society for Cognitive Psychology (ESCOP)
- The Organization for Human Brain Mapping (OHBM)
- Society for Psychophysiological Research (SPR)

**Editorships:**

Senior Editor of *Cognitive Brain Research*

**Occasional Reviewer:**

- Acta Psychologica
- Biological Psychology
- Brain
- Brain and Cognition
- Brain and Language
- Brain Research
- Cerebral Cortex
- Clinical Neurophysiology
- Cognition
- Cognitive, Affective, and Behavioral Neuroscience
- Cognitive Brain Research
- European Journal of Neuroscience
- Human Brain Mapping
- Journal of Cognitive Neuroscience
- Journal of Experimental Psychology: Learning, Memory and Cognition
- Journal of Experimental Psychology: Human Perception and Performance
- Journal of Memory and Language
- Journal of Neuroscience
- Journal of Psychophysiology
- Journal of Psycholinguistic Research
- Language Acquisition and Evolution
- Language and Cognitive Processes
- Linguistics
- Nederlands Tijdschrift voor Psychologie
- Nature Neuroscience
- NeuroImage
- Neuropsychologia
- Neuroscience Letters
- Philosophical Psychology
- Proceedings of the National Academy of Sciences
- Psychophysiology
- Quarterly Journal of Experimental Psychology
- Science

- Trends in Cognitive Sciences

Many granting agencies, including:

- The National Institute of Health (NIH),
- The National Science Foundation (NSF),
- The Netherlands Organization for Scientific Research (NWO),
- The Royal Netherlands Academy of Arts and Sciences (KNAW),
- The German Research Council (DFG),
- The Israeli Science Foundation,
- The Austrian Science Fund (FWF)
- The Volkswagen-Stiftung
- The Leverhulme Trust

### **Awards**

- Elected as University Affiliate of the Max Planck Institute for Psycholinguistics (2003).
- Elected as Member of the Faculty of 1000 (2003).
- Awarded the Hendrik Muller price for Behavioral Sciences (€ 25.000) by the Royal Netherlands Academy of Arts and Sciences (KNAW), 2003.
- Awarded the Knighthood of the Dutch Lion (*Officier in de Orde van de Nederlandse Leeuw*) by H.M. Queen Beatrix, 2004.
- Elected as Member of the Royal Netherlands Academy of Arts and Sciences, 2004
- Elected as among the ten most visible researchers of the Radboud University Nijmegen in the media (national TV, national radio, national newspapers) (2005).

### **Presentations (1993 - present):**

#### Invited

"Time constraints on linguistic processing in aphasia". Symposium on the occasion of the 25th anniversary of the Neurology Department of the RWTH Aachen. Aachen, March 1993.

"The brain's response to parsing". The 6th Annual CUNY Sentence Processing Conference. Amherst, March 1993.

#### Invited

"A lack of time for understanding: Evidence from on-line research for a chronogenetic account of aphasia". International Conference on The Psychology of Language and Communication. Glasgow, September 1993.

#### Invited

"Investigating normal and aphasic language comprehension with Event-Related Brain Potentials". Joint meeting of the British Society for Clinical Neurophysiology and the British Psychophysiological Society". Nottingham, September 1993.

"Too little time to understand: Evidence from on-line research for a chronogenetic account of aphasia". 31st Academy of Aphasia. Tucson, October 1993.

"Geen tijd voor taalverstaan: Evidentie voor een chronogenetische verklaring van taalbegripsstoornissen". Fourth Conference of the Dutch Society for Psychonomics (NVP), Noordwijkerhout, December 1993.

Invited

"On the nature of lexical-semantic processing impairments in aphasia". TENNET V. Montreal, May 1994.

Invited

"Agrammatic aphasia as an interface between the cognitive and the neural architecture of language". European Summer School on Cognitive Neuroscience. Berg en Dal (The Netherlands), July 1994.

Invited

"The Syntactic Positive Shift (SPS) as the brain's response to syntactic processing". Seventh international congress of psychophysiology of the International Organization of Psychophysiology (IOP). Porto Carras (Greece), September 1994.

Invited

"Hoe heet zoiets ook alweer?" Invited lecture for the Amsterdam Psycholinguistics Society. Amsterdam, November 1994.

Invited Seminar Presentations 1994:

- University of Glasgow
- University of Freiburg

Invited

"Lexical and parsing strategies in language processing and their implications for brain imaging research". Workshop on Cognition and Brain Imaging: The Technical Challenges. Jülich (Germany), April 1995.

Invited

"Over taal gesproken." Invited speaker at the conference of the Federation of Dutch Audiological Centers. Doorwerth, June, 1995.

Invited

"Electrophysiological insights into language and speech processing". XIIIth International Congress of Phonetic Sciences. Stockholm, August 1995.

Invited

"Investigating language comprehension with event-related potentials." 18th Annual Meeting of the European Neuroscience Association. Amsterdam, September 1995.

Invited

"The neurophysiology of sentence processing." Freiburg Workshop on Human Sentence Processing. Freiburg, October 1995.

Invited

"The tissue lost, the language gone by: What is left to electrify?" Workshop on ERPs in Neuropsychology. San Diego, November 1995.

"Semantic deficits in right hemisphere patients." 33rd Annual Meeting of the Academy of Aphasia. San Diego, December 1995.

Invited seminar presentations 1995:

- University of California at Davis
- University of California at San Diego

Invited

"Taal en denken in ons brein." Studium Generale, University of Maastricht. Maastricht, January 1996.

Invited

"The neurophysiology of the human language faculty." BCN Graduate School Lecture Series on Language and the Brain. Groningen, April 1996.

Invited

"The neurophysiology of speaking: Possibilities of event-related potential research on speech production." 3rd International Conference on Speech Motor Production and Fluency Disorders. Nijmegen, June 1996.

Invited

Performance on National Public Television, *Het Logisch Vermogen* (NWO/VPRO/NOS), October 11, 1996.

Invited seminar presentations 1996:

- University of Maastricht (January 1996)
- Schmieder Kliniken, Allensbach (April 1996)
- University of Konstanz (April 1996)
- Max Planck Institut für Neuropsychologie, Leipzig (July 1996)
- University of Jena (July 1996)

Invited

"Timing and electrophysiology of language." Workshop Timing and Electrophysiology. Wellcome Department of Cognitive Neurology. London, March 1997.

"When syntax meets semantics: Who is doing what to whom?" The Tenth Annual CUNY Conference on Human Sentence Processing. Santa Monica (CA), March 1997.

"When syntax meets semantics: Who is doing what to whom?" Fourth Annual Meeting of the Cognitive Neuroscience Society. Boston, March 1997.

Invited

"HersentAAL" Conference "Language for the General Public"; University of Nijmegen. Nijmegen,

April 1997.

Invited

"Zonder fosfor geen gedachten: Gagarin, geest en brein." Annual meeting of the "Reünistenvereniging Veritas". Utrecht, May 1997.

Invited

"Speaking as it unfolds in time: ERP and PET evidence" McDonnel-Pew seminar, Salk Institute. La Jolla, June 1997.

Invited

"Electrophysiology and PET studies of language". The 1997 McDonnel Summer Institute in Cognitive Neuroscience. Dartmouth College, Hanover, NH, July 1997.

Invited

"Gagarin, mind, brain, and person." Vatican Observatory. Castel Gandolfo, September 1997.

Invited

"The functional anatomy of syntactic processing: Evidence from brain imaging research", 29th annual general meeting of the European Brain and Behaviour Society (EBBS). Tutzing (Germany), September 1997.

Invited

"From single words to syntax: The neural architecture as revealed by PET". Biomed meeting "Mapping language functions in the brain." Jena, September 1997.

Invited

"Language and the brain: How many languages fit into one brain?" *Taaldag*, organized by the K.L. Poll Society and NRC-Handelblad. Amsterdam, October 1997.

"De functionele anatomie van syntax: Evidentie op basis van een PET-studie". 6th Winter Conference of the Dutch Psychonomics Society (NVP).

Invited seminar presentations 1997:

- University of California at San Diego (June 1997)
- University of Washington, Seattle (June 1997)

Invited

"Localisation of language functions". 160th scientific meeting of the Dutch Society for Anatomy. Lunteren. January 1998

Invited

"As the brain speaks: ERP and PET evidence". Albert Einstein College of Medicine. New York, February 1998.

Invited

"When syntax meets semantics: Electrophysiological insights into sentence comprehension". CUNY Graduate School. New York, February 1998.

Invited

"PET- en fMRI-onthullingen over de neurale architectuur van taal." Meeting of the NWO Research Group *Biological Psychology*. Utrecht, March 1998.

Invited

"The localization of language functions: PET and fMRI evidence." Academic Hospital Utrecht (AZU), March 1998.

Invited

"The interplay between syntax and semantics: Evidence from P600/SPS and N400." EPIC XII. Boston, July 1998.

Invited

"When gender gets hit by meaning." Workshop on grammatical gender. Max Planck Institute for Cognitive Neuroscience, Leipzig. July 1998.

Invited

"Wat de hersenen vertellen over taal." Publieksdag Hersenonderzoek in the context of the Decade of the Brain, Congrescentrum Jaarbeurs. Utrecht, September 1998.

Invited

"Wat de hersenen vertellen over taal." NRC-Cognitive Science Conference for aios, oios, and postdocs. Nijmegen, September 1998.

Invited

"Electrophysiology of language in healthy subjects and aphasic patients" Symposium "Electrophysiologie in der Neurologie, Neurochirurgie und Psychiatrie" RWTH Aachen. Aachen, December 1998.

Invited

"De gereedschapskist van de cognitieve neurowetenschap" Symposium Dutch Society for Psychonomics (NVP) "Kijken naar het actieve brein". Utrecht, December 1998.

Invited seminar presentations 1998:

- University of Geneva (May 1998)

Invited

"Neuropsychological approaches of language disorders." International workshop on the classification of language disorders. Nijmegen, January 1999.

Invited

"Beyond Biology Lecture." Amsterdam, February 1999.

Invited

"ERPs in language disorder evaluation." Symposium "Neuroimaging". Groningen, February 1999.

Invited

"The cognitive architecture of parsing: Evidence from event related brain potentials." Annual Meeting of the Cognitive Neuroscience Society. Washington, April 1999.

Invited

"Onderzoek naar hersenen en cognitie." Congres "Psychologie & Toekomst Perspectief". Leiden, April 1999.

Invited

"Taal en hersenen." Symposium "Taal- en Totaalontwikkeling", Werkverband Amsterdamse Psycholinguïsten (WAP). Amsterdam, May 1999.

Invited

"Gagarin in de neurale kosmos; taal, brein en bewustzijn." OKW-Wetenschapslezingen in Paradiso "Hersenen en Bewustzijn." Amsterdam, May 1999.

"The consequences of the temporal interaction between syntactic and semantic processes for haemodynamic studies of language." Fifth International Conference on Functional Mapping of the Human Brain. Düsseldorf, June 1999.

Invited

"Neurocognition of syntax: The issues." 7th International Conference on Cognitive Neuroscienc (ICON), Budapest, June 1999.

Invited

"Het samenlevingscontract tussen lichaam en geest." Multifacultair seminar University of Nijmegen. Nijmegen, September 1999.

"Nature and nurture of agrammatic comprehension." International conference "Basic mechanisms of language and language disorders. Leipzig, September 1999.

Invited

"De toekomstige eeuw zonder psychologie." Symposium "De volgende eeuw van de psychologie." Felix Meritis, Amsterdam, September 1999.

"The role of the left anterior temporal cortex in language processing." Academy of Aphasia 1999, Venice, October 1999.

Invited

"De verbeelding aan de macht: Hoe de menselijke geest zichtbaar wordt in de beeldanalyse van hersenactiviteit." Symposium Royal Netherlands Academy of Arts and Sciences (KNAW) "Biologie en psychologie: naar vruchtbare kruisbestuivingen." Amsterdam, November 1999.

Invited seminar presentations 1999:

- University of Nijmegen (May 1999)
- University of Magdeburg (June 1999)
- Max Planck Institute for Cognitive Neuroscience, Leipzig (July 1999)
- University of Nijmegen (Wetenschapsdag, October 1999)

Invited

"Bewust-zijn in de randen van het onbewuste". 2nd Barendregt Lecture on Consciousness. Nijmegen, February 2000

Invited

"The uniquely human capacity for language communication". Symposium Sony Computer Science

Laboratory "The ecological brain". Paris, April 2000.

Invited

"Sprache". Das Jahrzehnt des menschlichen Gehirns. Auftaktkongress. Bonn, April 2000.

Invited

"How the brain solves the binding problem for language". NWO/NSC joint workshop on cognitive science. Arnhem, April 2000.

Invited

"De toekomstige eeuw der cognitieve neurowetenschap: Rede uitgesproken bij de aanvaarding van het ambt van hoogleraar in de Neuropsychologie aan de Faculteit der Sociale Wetenschappen van de Katholieke Universiteit Nijmegen". Nijmegen, May 2000.

Invited

"Electrocortical reflection on the binding problem for language". 4<sup>th</sup> European Conference of the Federation of European Psychophysiology Societies. Amsterdam, May 2000.

Invited

"De psychologie verdwijnt". Symposium van de Nederlandse Vereniging voor Wetenschapsfilosofie "Biologisering van de psychologie en sociologie: Zegen of vloek?". Utrecht, May 2000.

Invited

Session chair Sixth Annual Meeting of the Organization for Human Brain Mapping. San Antonio, Texas USA, June 2000.

Invited

"Order out of chaos: An explicit account of ERP effects on the interface of lexicon, grammar and semantics". McDonnell-Pew Program in Cognitive Neuroscience Annual Meeting. Durham, North Carolina, June 2000.

Invited

"The neurocognition of syntax". International workshop on the nature of speech perception. Utrecht, July 2000.

Invited

"Measuring what makes behavior possible". Measuring Behavior 2000. 3<sup>rd</sup> International Conference on Methods and Techniques in Behavioral Research. Nijmegen, August 2000.

Invited

"Gagarin in de neurale kosmos: Taal, brein en bewustzijn". Lustrumconferentie Nederlandse Vereniging voor Audiologie. Zutphen, October 2000.

Invited

"Recente inzichten m.b.t. relatie taal en hersenen". Lustrumsymposium Nederlandse Vereniging voor Stem-, Spraak- en Taalpathologie. Utrecht, October 2000.

Invited

"The structure of learner language. Euroconference on Information Structure, Linguistic Structure and the Dynamics of Acquisition". San Feliu de Guixols, Spain, October 2000.

Invited seminar presentations 2000:

- Heinrich Heine Universität Düsseldorf. (January 2000)
- CNRS, Institut des Sciences Cognitives. Lyon (February 2000)

Invited

"A computational account for the neurocognition of parsing". 23. Jahrestagung der Deutschen Gesellschaft für Sprachwissenschaft. Leipzig, February 2001.

Invited

"How the brain solves the binding problem for language". Conference The Genetics of Language. Tilburg, May 2001.

Invited

"Het wetenschappelijke belang van het thema Cognitie en Gedrag". Meeting NWO Research strategy. Den Haag, June 2001.

Invited

"How the brain solves the binding problem for language: A neurocomputational account of language-related ERP effects". Conference on The Neurological Basis of Language. Groningen, July 2001.

Invited

"Het grensverkeer tussen hersenen en geest". Studium Generale University of Amsterdam. Amsterdam, October 2001.

Invited

"De koninklijke verlovings tussen neurowetenschap en psychologie". KNAW-CGW Conference on the cooperation between sciences. Leusden, October 2001.

Invited

"De verbeelding aan de macht bij het denkende brein". Studium Generale, Maastricht University. Maastricht, November 2001.

Invited

"Cognitieve neurowetenschap: de koninklijke verlovings tussen biologie en psychologie". NIP-congress Biology and Psychology – Verstandshuwelijk of ware liefde? Ede, November 2001.

Invited

"Cognitive neurosciences and neuroimaging". 8th Benelux Congress of Zoology. Nijmegen, November 2001.

Invited

"Gagarin in the neural cosmos: Cognitive neuroscience beyond the image given". Lecture given for the Programme Plurifacultaire 'Language et Communication', University of Geneva. Geneva, December 2001.

Invited seminar presentations 2001

- University of Utrecht (June 2001)

Invited

"Bewustzijn, het ik en de vrije wil". Studium Generale University Twente. Wageningen, February

2002.

Invited

"De boezem in eigen hand steken". Bessensap: Wetenschap ontmoet pers. Floriade, The Netherlands, April 2002.

Invited

"Perspectives on semantic integration and Mike's reincarnation". Information Processing and Error Analysis. A meeting to honor Professor Michael Coles' contribution to Psychology and Neuroscience. Urbana-Champaign, April 2002.

Invited

"De periscope van het taalbewustzijn in de duikboot van ons brein". Conference of the Association Néerlandaise de Linguistique Appliquée. Utrecht, May 2002.

Invited

"How the brain solves the binding problem for language". 6<sup>th</sup> Dutch Endo-Neurometing. Doorwerth, June 2002.

Invited

"The neural dynamics of semantic interpretation". International Symposium on Assessing the Dynamics of Human Brain Functions. Marburg, August 2002.

Invited

"When speech hits the ear: From sound to meaning". Meeting Collegium Otorhinolaryngologicum. Noordwijk, August 2002.

Invited

"Is the speaking brain a conscious brain?". Conference The transparent brain: neuroimaging – the key to human consciousness. Düsseldorf, December 2002.

Invited

"How the brain solves the binding problem for language". Neuronord. Bremen, December 2002.

Invited

"Herman, brein en bewustzijn". Symposium Stem-. Spraak- en Taalstoornissen: onderzoek in ontwikkeling. Nijmegen, December 2002

Invited

"On binding, brain, and language". VolkswagenStiftung/McDonnell Workshop on Cognitive Neuroscience. Oxford, January 2003.

Invited

"Talen achter het benig omhulsel van ons schedeldak". Nationaal Congres Engels. Zeist, February 2003.

Invited

"Taal tussen de oren". UBV Symposium Taal en Taalontwikkeling. Utrecht, February 2003.

Invited

"On binding, brain, and language". CSCA Lecture. Amsterdam, March 2003.

Invited

"Het brein te kijk, de geest in de opruiming?" NIP lustrumcongres 2003 'Tussen je oren of in je hoofd?'. Groningen, March 2003.

Invited

"How the brain handles sense and reference". The 16<sup>th</sup> Annual CUNY Conference on Human Sentence Processing. Boston, March 2003.

Invited

"Herinnering in hersenbeelden gevangen". 5de Publiekscongres Faculteit der Letteren. Nijmegen, April 2003.

Invited

"A neurocomputational model of syntactic processing". Symposium on Lesion and Neuroimaging, Bonn, May 2003.

Invited

"From sense to reference: Electrophysiological insights into language and brain." Keynote Lecture at Human Brain Mapping 2003, New York, June 2003.

Invited

"The outcome of evolution and/is the language network in the brain". 17<sup>th</sup> Annual Meeting of the Language Origins Society, University of Nijmegen, Nijmegen, July 2003.

Invited

"How the brain solves the binding problem for language". AMLaP-2003, 9<sup>th</sup> Annual Conference on Architectures and Mechanisms for Language Processing, Glasgow, August 2003.

Invited

"Imaging the brain". Symposium Biomechanics and Movement Restoration, University of Twente, Enschede, September 2003.

Invited

"Language and the brain". Symposium Lifespan Psychopathology. A developmental Perspective on Psychiatry, University of Nijmegen, September 2003.

Invited

"The bilingual brain revisited by interlingual homographs". Round Table on the Cognitive Neuroscience of Second Language Acquisition, Edinburgh, September 2003.

Invited

"How the brain solves the binding problem for language". Four corners workshop series: workshop 4 "The relationship between biology and behavior", Max Planck Institute for Psycholinguistics, Nijmegen, September 2003.

Invited

"Den Kun". Soeterbeeck Programma University of Nijmegen. Nijmegen, September 2003.

Invited

"Taal en taalpathologie in het brein". Symposium Balans *Taal centraal*. Utrecht, October 2003.

Invited

"Een lege plek tussen twee ambachten". BCN symposium in honour of Rudi van den Hoofdakker "Twee ambachten". University of Groningen, October 2003.

Invited

"Language and fMRI". 3rd International fMRI meeting and autumn school. Naples, October-November 2003.

Invited

"Het geheugen zichtbaar gemaakt". Alzheimer Publieksdag 2003. Utrecht, October 2003.

Invited

"On binding, brain and language". 9th Wintercongress Dutch Society for Psychonomics (NVP). Egmond aan Zee, December 2003.

Invited

"Language development and the brain". Symposium 'Leer het brein kennen'. Amsterdam, February 2004.

Invited

"Hersenbeelden van de denkende mens". Studium Generale, University Leiden. Leiden, February 2004.

Invited

"De oorsprong van het bewustzijn". Paradisolezing. Amsterdam, March 2004.

Invited

"Sentence-picture matching electrified". EPIC XIV. Leipzig, March 2004.

Invited

"On Broca, Brain, and Binding". Workshop "Perspectives on specific linguistic functions of the prefrontal cortex". UCL, Institute of Cognitive Neuroscience. London, May 2004.

Invited

"The unconscious brain and human cognition". Sixteenth Annual Drevler Lecture at the University of Edinburgh. Edinburgh, May 2004.

Invited

"On Broca, Brain, and Binding". Workshop "Broca's region". Jülich/Aachen, June 2004.

Invited

"How the brain solves the binding problem for language". 28th International Congress of Psychology. Beijing, August 2004.

Invited

"On Broca, Brain, and Binding". Scotland in The Netherlands: Brain Science Event at The Royal Netherlands Academy of Arts and Sciences. Amsterdam, October 2004.

Invited

"Het zwarte gat tussen brein en bewustzijn". Lezing voor de Vereniging voor Onderwijs, Kunst en Wetenschap. Apeldoorn, October 2004.

Invited

“De talige aap”. Studium Generale, University of Groningen. Groningen, November 2004.

Invited

“Hersenen en bewustzijn”. Studium Generale University of Twente. Enschede, November 2004.

Invited

“Seeing the mind through images of the brain”. Images of Science. New Interactions between Science and Society, Conference organized by the the Rathenau Institute, the Royal Netherlands Academy of Arts and Sciences, and the All European Academies. Amsterdam, December 2004.

Invited

“The Memory, Unification, and Control Model of Language”. International Symposium on Communicating Skills of Intention, Kyushu University. Fukuoka (Japan), February 2005.

Invited

“The Memory, Unification, and Control Model of Language”. Seminar CNRS. Paris, March 2005.

Invited

“Neuroimaging of Language”. Lecture for the Academic Session of the University of Ghent (Belgium). Ghent, March 2005.

Invited

“Brein en bewustzijn”. Soeterbeeck Programma Radboud University Nijmegen. Nijmegen/Den Bosch February 2005.

**Teaching (1993 - present):**

- Graduate course Graduate School LOT (1993)
- University of Nijmegen (1994).
- University of Leiden (1995).
- University of Nijmegen (1996)
- University of Geneva (1996)
- Graduate School Neurosciences Amsterdam (1997)
- Graduate School Neurosciences Amsterdam (1998)
- University of Maastricht (1998)
- University of Nijmegen (1998)
- Graduate School Neurosciences Amsterdam (1999)
- University of Nijmegen (1999)
- Graduate School Neurosciences Amsterdam (2000)
- University of Nijmegen (2000)
- Graduate School Neurosciences Amsterdam (2001)
- University of Nijmegen (2001)
- 4<sup>th</sup> Summerschool EDCBS (2001)
- Universidad de la Laguna, Tenerife (2001)
- University of Nijmegen (2002)
- Graduate School Neurosciences Amsterdam (2002)
- Masters of Neuroscience, University of Rotterdam (2002)
- Mind and Brain III, Inter University Centre Dubrovnik (2003)
- University of Nijmegen (2003)
- Masters of Neuroscience, University of Rotterdam (2003)

- School of Behavioral and Cognitive Neurosciences, University of Groningen (2003)
- Research MSc Cognitive Neuroscience, Nijmegen (2003)
- University of Nijmegen (2004)
- Research MSc Cognitive Neuroscience, Nijmegen (2004)
- Masters of Neuroscience, University of Rotterdam (2004)
- Summerschool EDCBS-II (2004)
- Mind and Brain IV, Inter University Centre Dubrovnik (2004)
- University of Nijmegen (2005)
- University of Twente (2005)
- Research MSc Cognitive Neuroscience, Nijmegen (2005)

## **Publications:**

### **Submitted**

Hald, L., Bastiaansen, M. C., & Hagoort, P. (submitted). EEG theta and gamma responses to semantic violations in online sentence processing.

Van Heuven, W., Dijkstra, T., Schriefers, H., & Hagoort, P. (submitted). Language conflict in the bilingual brain.

Snijders, T.M., Kooijman, V., Cutler, A., & Hagoort, P. (submitted). The foreign language effect: Segmentation delay creates the illusion of rapid speech.

Özyürek, A., Chauncey, C., Kita, S., & Hagoort, P. (submitted). Online comprehension of iconic gestures: A gating study.

Willems, R., Özyürek, A., & Hagoort (submitted). When language meets action: The neural integration of gesture and speech.

Hoeks, J. C. J., Hendriks, P., Vonk, W., Brown, C. M., & Hagoort, P. (submitted). Processing the NP-versus S-coordination Ambiguity: Thematic information does not completely eliminate processing difficulty.

Müller, O., & Hagoort, P. (submitted). Priming access of grammatical gender in language comprehension.

Bastiaansen, M.C, Oostenveld, R., Jensen, O., and Hagoort, P. (submitted). Do you see what I mean? Theta power increases are involved in the retrieval of lexical semantic representations.

### **In press**

Hagoort, P. (in press). On Broca, brain, and binding: The MUC framework. *Trends in Cognitive Sciences*.

Van den Brink, D., Brown, C., & Hagoort, P. (in press). The cascaded nature of lexical selection and integration in spoken words revealed by N200 and N400 effects. *Journal of Experimental Psychology: Learning, Memory and Cognition*.

Van Berkum, J.J.A., Brown, C.M., Zwitserlood, P., Kooijman, V., Hagoort, P. (in press). Anticipating upcoming words in discourse: Evidence from ERPs and reading times. *Journal of Experimental Psychology: Learning, Memory and Cognition*, 31.

### **2005**

Bastiaansen, M. C. M., Van der Linden, M., Ter Keurs, M., Dijkstra, T., & Hagoort, P. (2005). Theta responses are involved in lexico-semantic retrieval during language processing. *Journal of Cognitive Neuroscience*, 17, 530-541.

De Lange, F.P., Kalkman, J.S., Bleijenberg, G., Hagoort, P., Van der Meer, J.W.M., & Toni, I. (2005). Gray matter volume reduction in the chronic fatigue syndrome. *NeuroImage* on-line.

Aleman, A., Formisano, E., Koppenhagen, H., Hagoort, P., De Haan, E.H.F., & Kahn, R.S. (2005). The functional neuroanatomy of metrical stress evaluation of perceived and imagined spoken words. *Cerebral Cortex*, *15*, 221-228.

De Lange, F., Hagoort, P., & Toni, I. (2005). Neural topography and content of movement representations. *Journal of Cognitive Neuroscience*, *17*, 97-112.

Wassenaar, M., & Hagoort, P. (2005). Word-category violations in patients with Broca's aphasia: an ERP study. *Brain and Language*, *92*, 117-137.

## 2004

Hagoort, P., Hald, L., Bastiaansen, M., & Petersson, K-M. (2004). Integration of word meaning and world knowledge in language comprehension. *Science*, *304*, 438-441.

De Lange, F., Kalkman, J., Bleijenberg, G., Hagoort, P., van der Werf, S. P., van der Meer, J., & Toni, I. (2004). Neural correlates of the chronic fatigue syndrome – an fMRI study. *Brain*, *127*, 1948-1957.

Krott, A., Hagoort, P., & Baaijen, H. (2004). Sublexical units and supralelexical combinatorics in the processing of interfixed Dutch compounds. *Language and Cognitive Processes*, *19*, 453-471.

Indefrey, P., Hellwig, F., Herzog, H., Seitz, R.J., & Hagoort, P. (2004). Neural responses to the production and comprehension of syntax in identical utterances. *Brain and Language*, *89*, 312-319.

Van den Brink, D., & Hagoort, P. (2004). The influence of semantic and syntactic context constraints on lexical selection and integration in spoken-word comprehension as revealed by ERPs. *Journal of Cognitive Neuroscience*, *16*, 1068 -1084.

Wassenaar, M. Brown, C.M., & Hagoort, P. (2004). ERP effects of subject-verb agreement violations in patients with Broca's aphasia. *Journal of Cognitive Neuroscience*, *16*, 553-576.

## 2003

Hagoort, P. (2003). How the brain solves the binding problem for language: A neurocomputational model of syntactic processing. *NeuroImage*, *20*, S18-S29.

Hagoort, P. (2003). Interplay between syntax and semantics during sentence comprehension: ERP effects of combining syntactic and semantic violations. *Journal of Cognitive Neuroscience*, *15*, 883-899.

Hagoort, P., Wassenaar, M., & Brown, C (2003). Real-time semantic compensation in patients with agrammatic comprehension: electrophysiological evidence for multiple-route plasticity. *Proceedings of the National Academy of Sciences*, *100*, 4340-4345.

Hagoort, P., Wassenaar, M., & Brown, C. M. (2003). Syntax-related ERP-effects in Dutch. *Cognitive Brain Research*, *16*, 38-50.

Bastiaansen, M., & Hagoort, P. (2003). Event-induced theta responses as a window on the dynamics of memory. *Cortex*, *39*, 967-992.

Swaab, T., Brown, C.M., & Hagoort, P. (2003). Understanding words in sentence contexts: The time course of ambiguity resolution. *Brain and Language*, *86*, 326-343.

Van Berkum, J. J., Brown, C. M., Hagoort, P., & Zwitserlood, P. (2003). Event-related brain potentials reflect discourse-referential ambiguity in spoken language comprehension. *Psychophysiology*, *40*, 235-248.

Van Berkum, J.J.A., Zwitserlood, P., Hagoort, P., & Brown, C.M. (2003). When and how do listeners relate a sentence to the wider discourse? Evidence from the N400 effect. *Cognitive Brain Research*, *40*, 235-248.

## 2002

Hagoort (2002). De koninklijke verloving tussen psychologie en neurowetenschap. *De Psycholoog*, *37*, 107-113.

Roelofs, A., & Hagoort, P. (2002). Control of language use: cognitive modeling the hemodynamics of Stroop task performance. *Cognitive Brain Research*, *15*, 85-97.

Bastiaansen, M.C.M., van Berkum, J.J.A., & Hagoort, P. (2002). Syntactic processing modulates the theta rhythm of the human EEG. *NeuroImage*, *17*, 1479-1492.

Bastiaansen, M.C.M., van Berkum, J.J.A., & Hagoort, P. (2002). Event-related theta power increases in the human EEG during online sentence processing. *Neuroscience Letters*, *323*, 13-16.

Ter Keurs, M., Brown, C.M., & Hagoort (2002). Lexical processing of vocabulary class in patients with Broca's aphasia: an event-related brain potential study on agrammatic comprehension. *Neuropsychologia*, *40*, 1547-1561.

## 2001

Brink, D. van den, Brown, C.M., & Hagoort P. (2001). Electrophysiological evidence for early contextual influences during spoken-word recognition: N200 versus N400 effects. *Journal of Cognitive Neuroscience*, *13*, 967-985.

Indefrey, P., Brown, C.M., Hellwig, F., Amunts, K., Herzog, H., Rüdiger, J.S., & Hagoort, P. (2001). A neural correlate of syntactic encoding during speech production. *Proceedings of the National Academy of Sciences*, *98*, 5933-5936.

Indefrey, P., Hagoort, P., Herzog, H., Seitz, R.J., & Brown, C.M. (2001). Syntactic processing in left prefrontal cortex is independent of lexical meaning. *NeuroImage*, *14*, 546-555.

Wassenaar, M. & Hagoort, P. (2001). Het matchen van zinnen bij plaatjes door Broca afasiepatiënten: een hersenpotentiaal studie. *Afasiologie*, *23*, 122-126.

## 2000

Hagoort, P. (2000). What we shall know only tomorrow. *Brain and Language*, *71*, 89-92.

- Hagoort, P. (2000). The uniquely human capacity for language communication: From cognitive architecture to neural architecture. *Proceedings CSL Paris Symposium* (pp. 1-15). Paris: Sony CSL.
- Hagoort, P. (2000). De toekomstige eeuw der cognitieve neurowetenschap. *Nederlands Tijdschrift voor de Psychologie*, 55, 253-265.
- Hagoort P., & Brown, C. (2000). ERP effects of listening to speech: Semantic ERP effects. *Neuropsychologia*, 38, 1518-1530.
- Hagoort P., & Brown, C. (2000). ERP effects of listening to speech compared to reading: The P600/SPS to syntactic violations in spoken sentences and rapid serial visual presentation. *Neuropsychologia*, 38, 1531-1549.
- Berkum, J.J.A. van, Hagoort, P., & Brown, C.M. (2000). The use of referential context and grammatical gender in parsing: A reply to Brysbaert and Mitchell. *Journal of Psycholinguistic Research*, 29, 467-481.
- Brink, D. van den, Brown, C.M., & Hagoort P. (2000). Electrophysiological evidence for early contextual influences during spoken-word recognition: The N200. *Proceedings of the Workshop on Spoken Word Access Processes* (pp. 95-98).
- Brown, C.M., Hagoort, P., & Chwilla, D. (2000). An event-related potential analysis of visual word priming effects. *Brain and Language*, 27, 158-190.
- Brown, C.M., Berkum, J.J.A. van, & Hagoort, P. (2000). Discourse before gender: An event-related brain potential study on the interplay of semantic and syntactic information during spoken language understanding. *Journal of Psycholinguistic Research*, 29, 53-68.

## 1999

- Hagoort, P. (1999). De toekomstige eeuw zonder psychologie. *Psychologie Magazine*, 18, 35-36.
- Hagoort, P., & Brown, C. (1999). Gender electrified: ERP evidence on the syntactic nature of gender processing. *Journal of Psycholinguistic Research*, 28, 715-728.
- Hagoort, P., Ramsey, N., Rutten, G-J., & Rijen, P. van (1999). The role of the left anterior temporal cortex in language processing. *Brain and Language*, 69, 322-325.
- Hagoort, P., Indefrey, P., Brown, C., Herzog, H., Steinmetz, H., & Seitz, R.J. (1999). The neural circuitry involved in the reading of German words and pseudowords: A PET study. *Journal of Cognitive Neuroscience*, 11, 383-398.
- Berkum, J.J.A. van, Brown, C.M., & Hagoort, P. (1999). Early referential context effects in sentence processing: Evidence from event-related brain potentials. *Journal of Memory and Language*, 41, 147-82.
- Berkum, J.J.A. van, Brown, C.M., & Hagoort, P. (1999). When does gender constrain parsing? Evidence from ERPs. *Journal of Psycholinguistic Research*, 28, 555-571.
- Berkum, van J.J.A. van, Hagoort, P., & Brown, C.M. (1999). Semantic integration in sentences and discourse: Evidence from the N400. *Journal of Cognitive Neuroscience*, 11, 657-671.

- Brown, C.M., Hagoort, P., & Ter Keurs, M. (1999). Electrophysiological signatures of visual lexical processing: Open- and closed-class words. *Journal of Cognitive Neuroscience*, *113*, 261-281.
- Osterhout, L., & Hagoort, P. (1999). A superficial resemblance doesn't necessarily mean you're part of the family: Counterarguments to Coulson, King, and Kutas (1998) in the P600/SPS debate. *Language and Cognitive Processes*, *14*, 1-14.
- Ter Keurs, M., Brown, C.M., Hagoort, P., & Stegeman, D.F. (1999). Electrophysiological manifestations of open- and closed-class words in patients with Broca's aphasia with agrammatic comprehension: An event-related brain potential study. *Brain*, *122*, 839-854.
- Van Turenout, M., Hagoort, P., & Brown, C. (1999). The time course of grammatical and phonological processing during speaking: Evidence from event-related brain potentials. *Journal of Psycholinguistic Research*, *28*, 649-76

## 1998

- Hagoort, P. (1998). De electrofysiologie van taal: Wat hersenpotentialen vertellen over het menselijk taalvermogen. In P. Hagoort (Ed.), *Spraak, taal, stoornis en behandeling. Neuropraxis*, *2*, 223-229.
- Hagoort, P. (1998). Hersenen en taal in onderzoek en praktijk. In P. Hagoort (Ed.), *Spraak, taal, stoornis en behandeling. Neuropraxis*, *2*, 204-205.
- Hagoort, P. (1998). De spreker als sprinter: Van geslacht naar klank in 40 milliseconden. *Psychologie*, *17*, 48-49.
- Chwilla, D., Hagoort, P., & Brown, C.M. (1998). The mechanism underlying backward priming in a lexical decision task: Spreading activation versus semantic matching. *Quarterly Journal of Experimental Psychology*, *51A*, 531-560.
- Swaab, T.Y., Brown, C., & Hagoort, P. (1998). Understanding ambiguous words in sentence contexts: Electrophysiological evidence for delayed contextual selection in Broca's aphasia. *Neuropsychologia*, *36*, 737-761.
- Van Turenout, M., Hagoort, P., & Brown, C. (1998). Brain activity during speaking: From syntax to phonology in 40 milliseconds. *Science*, *280*, 572-574.

## 1997

- Hagoort, P. (1997). Semantic priming in Broca's aphasics at a short SOA: No support for an automatic access deficit. *Brain and Language*, *56*, 287-300.
- Hagoort, P. (1997). Valt er nog te lachen zonder de rechter hersenhelft? *Psychologie*, *16*, 52-55.
- Hagoort, P. (1997). De rappe prater als gewoontedier. *Psychologie*, *16*, 22-23.
- Indefrey, P., Brown, C., Hagoort, P., Herzog, H., Sach, M., & Seitz, R. (1997). A PET study of cerebral activation patterns induced by verb inflection. *Human Brain Mapping*, S548.
- Indefrey, P., Kleinschmidt, A., Merboldt, K-D., Krüger, G., Brown, C., Hagoort, P., & Frahm, J.

(1997). Equivalent responses to lexical and nonlexical visual stimuli in occipital cortex: A functional magnetic resonance imaging study. *NeuroImage*, 5, 78-81.

Swaab, T., Brown, C., & Hagoort, P. (1997). Spoken sentence comprehension in aphasia: Event-related potential evidence for a lexical integration deficit. *Journal of Cognitive Neuroscience*, 9, 39-66.

Van Turenout, M., Hagoort, P., & Brown, C. M. (1997). Electrophysiological evidence on the time course of semantic and phonological processes in speech production. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 23, 787-806.

Wassenaar, M, Hagoort, P., & Brown, C. (1997). Syntactic ERP effects in Broca's aphasics with agrammatic comprehension. *Brain and Language*, 60, 61-64.

## **1996**

Hagoort, P., Brown, C., & Swaab, T. (1996). Lexical-semantic ERP-effects in left hemisphere patients with aphasia and right hemisphere patients without aphasia. *Brain*, 119, 627-649.

## **1995**

Hagoort, P., Brown, C., & Swaab, T. (1995). Semantic deficits in right hemisphere patients. *Brain and Language*, 51, 161-163.

Chwilla, D., Brown, C., & Hagoort, P. (1995). The N400 as a function of the level of processing. *Psychophysiology*, 32, 274-285.

Swaab, T., Brown, C., & Hagoort, P. (1995). Delayed integration of lexical ambiguities in Broca's aphasics: Evidence from event-related potentials. *Brain and Language*, 51, 159-161.

Ter Keurs, M., Brown, C., Hagoort, P., Praamstra, P., & Stegeman, D. (1995). ERP characteristics of function and content words in Broca's aphasics with agrammatic comprehension. *Brain and Language*, 51, 119-122.

## **1994**

Hagoort, P. (1994). Het brein op een kier: Over hersenen gesproken. *Psychologie*, 13, 42-46.

Hagoort, P. (1994). Afasie als een tekort aan tijd voor spreken en verstaan. *De psycholoog*, 4, 153-154.

## **1993**

Hagoort, P. (1993). Impairments of lexical-semantic processing in aphasia: Evidence from the processing of lexical ambiguities. *Brain and Language*, 45, 189-232.

Hagoort, P. (1993). Language: Structure, processing and disorders [Review of the book *Language: Structure, processing and disorder*]. *Trends in Neurosciences*, 16, 124.

Hagoort, P., & Brown, C.M. (1993). Hersenpotentialen als maat voor het menselijk taalvermogen. *Stem, Spraak- en Taalpathologie*, 2, 213-235.

Hagoort, P., Brown, C. M., & Groothusen, J. (1993). The Syntactic Positive Shift (SPS) as an ERP measure of syntactic processing. *Language and Cognitive Processes*, 8, 439-483.

Brown, C.M., & Hagoort, P. (1993). The processing nature of the N400: Evidence from masked priming. *Journal of Cognitive Neuroscience*, 5, 34-44.

## **1992**

Hagoort, P. (1992). Vertraagde lexicale integratie bij afatisch taalverstaan. *Stem-, Spraak- en Taalpathologie*, 1, 5-23.

Hagoort, P., & Brown, C. (1992). What event related brain potentials (ERPs) reveal about human language understanding. *Supplement no. 5 to the European Journal of Neuroscience*, 235.

Graetz, P., De Bleser, K., Willmes, K., Heeschen, C. & Hagoort, P. (1992). De Akense afasietest (1): Constructie van de nederlandstalige versie van de AAT. *Tijdschrift voor Logopedie & Audiologie*, 22, 96-110.

## **1991**

Bleser, R. de, Willmes, K., Graetz, P., & Hagoort, P. (1991). De Akense Afasie Test: Psychometrische aspecten van de Nederlandstalige versie. *Logopedie en Foniatrie*, 63, 207-217.

Praamstra, P., Hagoort, P., Maassen, B., & Crul, Th. (1991). Word deafness and auditory cortical function: A case history and hypothesis. *Brain*, 114, 1197-1225.

## **1981 - 1990**

Hagoort, P. (1990). David Caplan: Neurolinguistics and linguistic aphasiology. An introduction (book review). *Linguistics*, 5, 1069-1073.

Hagoort, P. (1989). Decay of syntactic information in language comprehension of agrammatic aphasics. *Journal of Clinical and Experimental Neuropsychology*, 11, 355.

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**Appendix:**  
**Evaluation of Hagoort and his research group in the period 2002-2004 (end) by an international committee of experts.**

Quality: *Excellent*  
Productivity: *Excellent*  
Relevance: *Excellent*  
Feasibility/Vitality: *Excellent*

Overall: *Excellent+*

The research program run by Prof. Dr. Peter Hagoort, FCDC Director, focuses on an experimental approach to the study of language comprehension and production, compatible with neurobiology. This is an ambitious project requiring a broad and deep knowledge in linguistics as well as of advanced neuroimaging techniques. The Institute provides both and is in this sense quite unique among neuroimaging centers worldwide.

This research group's methodology is based on ingenious experimental designs in which different aspects of language can either be dissociated or even put in conflict with one another. Imaging brain activity during such conditions of mismatch e.g. between a spoken utterance of an action sentence and the corresponding gesture, can reveal the areas where the two information types are normally integrated.

The group makes use of all imaging methods available at the Institute: fMRI is used for describing the spatial distribution of the language network, whereas the EEG/MEG techniques are used primarily for defining the functional links within and between the language network(s).

This program clearly bears a high societal relevance both in the field of education (language learning, second language acquisition), and in the field of pathology, for understanding language disorders.

The group meets the highest standards of international visibility, in terms of publications, collaborations as well as external funding.

The neurobiology of language is arguably one of the most challenging frontiers in human neuroscience – a challenge that is readily met by this group's creativity. We anticipate that this group will continue to muster all the available technologies toward a better understanding of language comprehension and production in brain-intact and brain-damaged individuals. To conduct such excellent work and to manage FCDC at the same time is quite a remarkable feat worthy of lavish praise.