

Vitória Piai

Associate Professor & Principal Investigator, Radboud University, Donders Centre for Cognition

Donders Institute for Brain, Cognition and Behaviour
Thomas van Aquinostraat 4
6525 GD Nijmegen, the Netherlands

✉ vitoria.piai@donders.ru.nl 📞 +31 6 29646386

🏠 [Personal website](#) 👤 [Language Function and Dysfunction Lab](#) 📄 [0000-0002-4860-5952](#)
R⁶ [Vitória Piai](#) 🐦 [@vipiai](#) 📖 [Google Scholar](#) ⚙️ [OSF](#) 📄 [Publons](#) 📊 [Impact Story](#)

Research Summary

As a PhD candidate at Radboud University, supervised by Ardi Roelofs and Herbert Schriefers, I did research on the role of executive control in word production using behavioural methods, scalp electrophysiology, and functional MRI. Halfway into my PhD, I initiated my own, independent, research programme on the electrophysiology of language production in healthy speakers. I then obtained personal post-doctoral funding to go to the University of California Berkeley and expand my research towards populations with acquired language impairment. Under the mentoring of Bob Knight and Nina Dronkers, I used intracranial and scalp electrophysiology to investigate the neurophysiological underpinnings of language and language neuroplasticity. Since 2017, I head the Language Function and Dysfunction group at the Donders Institute for Brain, Cognition and Behaviour in Nijmegen. My research programme focuses on the neuropsychological and neurophysiological basis of language in healthy adults and the impairment of language functioning after brain injury or damage to the speech organs. My research is characterised by bridging across the domains of language, memory, and executive control and by the way I use my strong fundamental and methodological background to approach the study of language disorders. Electrophysiology holds an important place in my research programme, which I combine with behavioural measures, non-invasive brain stimulation and lesion-symptom models.

Positions

Principal Investigator , <i>Radboud University, Donders Centre for Cognition, Department of Neuropsychology and Rehabilitation Psychology, Nijmegen, the Netherlands</i>	2016-present
junior Principal Investigator , <i>Radboud University Medical Centre, Donders Centre for Medical Neuroscience, Department of Medical Psychology, Nijmegen, the Netherlands</i>	2020-2022
Postdoctoral Researcher , <i>Radboud University Medical Centre, Donders Centre for Medical Neuroscience, Department of Medical Psychology, Nijmegen, the Netherlands</i>	2016-2020

	Postdoctoral Fellow , <i>Helen Wills Neuroscience Institute, University of California, Berkeley and Center for Aphasia and Related Disorders, Veterans Affairs Health Care System Northern, California, USA</i>	2014-2016
	Neurosurgery Department Affiliate , <i>University of California, San Francisco, California, USA</i>	2015-2016
Clinical Duties	Monitoring of function during awake craniotomies, developing and improving protocols for intraoperative assessments <i>Radboud University Medical Centre</i>	2016-2022
Education	Ph.D. in Cognitive Neuroscience (distinction: "cum laude"), <i>Radboud University, Donders Graduate School for Cognitive Neuroscience & International Max Planck Research School for Language Sciences, Nijmegen, the Netherlands</i>	2009-2013
	M.Sc. in Cognitive Neuroscience (distinction: "bene meritum"), <i>Radboud University, Nijmegen, the Netherlands</i>	2007-2009
	B.A. in Linguistics (distinction: "cum laude"), <i>Utrecht University, Utrecht, the Netherlands</i>	2004-2007
	B.A. in Portuguese Language and Culture (distinction: "cum laude"), <i>Utrecht University, Utrecht, the Netherlands</i>	
Certificates	Basic course on Regulations and Organisation for clinical investigators (BROK)	2016
	Dutch University Teaching Qualification (BKO)	2013
Competitive Funding		
Principal Investigator	Vidi , <i>Netherlands Organisation for Scientific Research (NWO)</i> , "Fingerprints of language: towards a neurophysiological theory of retrieval from memory in speaking" (€ 800,000)	2022-2026
	Internal PhD-grant round , <i>Radboud University, Donders Centre for Cognition</i> , "Let's have that conversation: Examining the demands of language use through the lens of young stroke" (€ 250,000)	2021-2025
	Junior Principal Investigator premium , <i>Radboud University Medical Center, Radboudumc funds</i> dedicated to research excellence (€ 125,000)	2020-2024
	Interfaculty collaborative grant , <i>Radboud University</i> , "Adaptive Language Initiative", with prof. James McQueen and prof. Asli Özyürek (€ 150,000)	2020-2022
	Internal PhD-grant round , <i>Radboud University, Donders Centre for Cognition</i> , "Unravelling how prefrontal cortex recruitment supports language functioning" (€ 250,000)	2019-2023

Veni, *Netherlands Organisation for Scientific Research (NWO)*, "Reorganising language: Neuroplasticity after left-hemisphere stroke through right-hemisphere recruitment" (€ 250,000) 2017-2020

Rubicon, *Netherlands Organisation for Scientific Research (NWO)*, "Towards a neural mechanism of context-driven memory access in language: prefrontal cortex and neuronal oscillations" (€ 127,690) 2014-2016

Niels Stensen Fellowship, *Niels Stensen Stichting*, "Towards a neuronal mechanism of context-dependent memory access in spoken word production" (€ 43,736). Declined due to Rubicon 2014-2015

Co-Investigator

Small Projects for NWA routes, *Netherlands Organisation for Scientific Research (NWO)*, "Dynamic Assessment of Everyday Communication using Virtual Reality: proof of concept for persons with aphasia (DCOM-VR)", main applicant: dr. M. Ruiter 2022-2024

PhDs in Humanities 2021, *Netherlands Organisation for Scientific Research (NWO)*, "Putting discourse particles in context: How people with acquired communication disorders use discourse particles", main applicant: prof. H. de Hoop, PhD candidate: Imke Wets, MA 2021-2025

Discovery Project, *Australian Research Council*, "How the brain produces speech: Neuronal oscillations to neuromodulation", main applicant: prof. de Zubicaray 2020-2024

Internal PhD-grant round, *Radboud University, Donders Centre for Cognition*, "The lexical interface in the brain", main applicants: prof. A. Roelofs, prof. J. McQueen (€ 234,000) 2016-2020

Internal Utilisation Grant Round, *Language in Interaction Consortium*, "SimpTell, an application for the training of elliptical language production style by patients with chronic Broca's aphasia", main applicants: prof. A. Roelofs, dr. M. Ruiter (€ 25,000) 2016

Awards and Prizes

Early Career Award, *International Neuropsychological Society* 2020

Early Career Award, *Dutch Psychonomic Society* 2019

Early Career Award, *Society for the Neurobiology of Language*

Early Career Award, *Dutch Society of Neuropsychology* 2018

Top reviewer for Radboud University (Arts and Humanities), *Publons* 2017

Top 10% of review contributions to field of Psychology, *Publons* 2016

Frye Stipend, *Radboud University, Nijmegen*, Awarded yearly to the ten most promising female researchers across Radboud University 2012

Publications

Asterisks indicate (PhD or undergraduate) student lead authors. Publication list also available in [Google Scholar](#) and [ORCID](#). Full-texts of published papers available through my [website](#)

Journal Articles

*Roos, N.M., Chauvet, J. & **Piai, V.** (2024). The Concise Language Paradigm (CLaP), a framework

2024

for studying the intersection of comprehension and production: electrophysiological properties. *Brain Structure and Function*. doi: [10.1007/s00429-024-02801-8](https://doi.org/10.1007/s00429-024-02801-8) [Open data](#)

*Kennis, N., Zheng, X., de Bruin, A., **Piai, V.** (in press). Is switching more costly in cued than voluntary language switching? Evidence from behaviour and electrophysiology. *Bilingualism: Language and Cognition*.

Piai, V., Oostenveld, R., Schoffelen, J. M., & Piastra, M. C. (2024). The impact of CSF-filled cavities on scalp EEG and its implications. *Psychophysiology*. doi: [10.1111/psyp.14624](https://doi.org/10.1111/psyp.14624) [Open data](#)

Cui, N., **Piai, V.**, & Zheng, X. Y. (2024). Domain-general cognitive control processes in bilingual switching: Evidence from midfrontal theta oscillations. *European Journal of Neuroscience*. doi: [10.1111/ejn.16466](https://doi.org/10.1111/ejn.16466)

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Piai, V., & Eikelboom, D. (2023). Brain Areas Critical for Picture Naming: A Systematic Review and Meta-Analysis of Lesion-Symptom Mapping Studies. *Neurobiology of Language*, *4*(2), 280–296. doi: [10.1162/nol_a_00097](https://doi.org/10.1162/nol_a_00097) [Open data](#)

*Ferreira, J., Roelofs, A., & **Piai, V.** (2023). An fMRI study of inflectional encoding in spoken word production: Role of domain-general inhibition. *Neuropsychologia*, *188*, 108653. doi: [10.1016/j.neuropsychologia.2023.108653](https://doi.org/10.1016/j.neuropsychologia.2023.108653) [Open data](#)

*Weterings, R., Kessels, R.P.C., de Leeuw, F.-E., & **Piai, V.** (2023). Cognitive impairment after a stroke in young adults: a systematic review and meta-analysis. *International Journal of Stroke*, *18*(8), 888-897. doi: [10.1177/17474930231159267](https://doi.org/10.1177/17474930231159267) [Open data](#)

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*Camerino, I. and *Ferreira, J. (shared first authors), Vonk, J. M., Kessels, R. P. C., de Leeuw, F.-E., Roelofs, A., Copland, D., & **Piai, V.** (2023). Systematic review and meta-analyses of word production abilities in dysfunction of the basal ganglia: Stroke, small vessel disease, Parkinson's disease, and Huntington's disease. *Neuropsychology Review*. doi: [10.1007/s11065-022-09570-3](https://doi.org/10.1007/s11065-022-09570-3) [Open data](#)

*Roos, N. M., Takashima, A., & **Piai, V.** (2023). Functional neuroanatomy of lexical access in contextually and visually guided spoken word production. *Cortex*, *159*, 254–267. doi: [10.1016/j.cortex.2022.10.014](https://doi.org/10.1016/j.cortex.2022.10.014) [Open data](#)

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*Chupina, I., Sierpowska, J., Zheng, X. Y., Dewenter, A., Piastra, M., & **Piai, V.** (2022). Time course of right-hemisphere recruitment during word production following left-hemisphere damage: A single case of young stroke. *European Journal of Neuroscience*. doi: [10.1111/ejn.15813](https://doi.org/10.1111/ejn.15813)

Ruiter, M. B., Otters, M. C., **Piai, V.**, Lotgering, E. A. M., Theunissen, J. E. M. C., & Rietveld, T. C. M. (2022). A transcription-less quantitative analysis of aphasic discourse elicited with an adapted version of the Amsterdam-Nijmegen Everyday Language Test (ANELT). *Aphasiology*. doi: [10.1080/02687038.2022.2109124](https://doi.org/10.1080/02687038.2022.2109124)

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*Hustá, C., Zheng, X., Papoutsis, C., & **Piai, V.** (2021). Electrophysiological signatures of conceptual and lexical retrieval from semantic memory. *Neuropsychologia*, *161*, 107988. doi:[10.1016/j.neuropsychologia.2021.107988](https://doi.org/10.1016/j.neuropsychologia.2021.107988) [Open data](#)

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*Mascelloni, M., McMahon, K., **Piai, V.**, Kleinman, D., & de Zubicaray, G. (2021). Mediated phonological-semantic priming in spoken word production: evidence for cascaded processing from picture-word interference. *Quarterly Journal of Experimental Psychology*, *74(7)*, 1284-1294. [Open data](#)

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*Abrahamse, R., Beynon, A., & **Piai, V.** (2021). Long-term auditory processing outcomes in early implanted young adults with cochlear implants: the MMN vs. P300 response. *Clinical Neurophysiology*, *132(1)*, 258-268. doi: [10.1016/j.clinph.2020.09.022](https://doi.org/10.1016/j.clinph.2020.09.022) [Open data](#)

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speed of word finding depends on ventral tract integrity in primary progressive aphasia.

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*Roos, N. M., & **Piai, V.** Across-session consistency of context-driven language processing: a magnetoencephalography study. *European Journal of Neuroscience*, 52(5), 3457-3469. doi: [10.1111/ejn.14785](https://doi.org/10.1111/ejn.14785) [Open data](#)

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*Ferreira, J., Roelofs, A., & **Piai, V.** The role of inhibition in inflectional encoding: producing the past tense. *Cognition*, 200, 104235. doi: [10.1016/j.cognition.2020.104235](https://doi.org/10.1016/j.cognition.2020.104235) [Open data](#)

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2016

Piai, V., Anderson, K.L., Lin, J. J., Dewar, C., Parvizi, J., Dronkers, N. F., & Knight, R. T. (2016). Direct brain recordings reveal hippocampal rhythm underpinnings of language processing. *Proceedings of the National Academy of Sciences*, 113, 11366–11371. doi: [10.1073/pnas.1603312113](https://doi.org/10.1073/pnas.1603312113)

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Piai, V., Roelofs, A., Rommers, J., & Maris, E. (2015). Beta oscillations reflect memory and motor aspects of spoken word production. *Human Brain Mapping*, *36*, 2767-2780. doi:

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Piai, V., Roelofs, A. & Roete, I. (2015). Semantic interference in picture naming does not vary with reading ability. *Quarterly Journal of Experimental Psychology*, *68*, 1758-1768. doi:

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Piai, V., Riès, S. K., & Knight, R. T. (2015). The electrophysiology of language production: What could be improved. *Frontiers in Human Neuroscience*, *5*, 5160. doi: [10.3389/fpsyg.2014.01560](https://doi.org/10.3389/fpsyg.2014.01560)

Piai, V., Dahlslett, K., & Maris, E. (2015). Statistically comparing EEG/MEG waveforms on the basis of successive univariate test statistics: How bad can it be? *Psychophysiology*, *52*, 440-443. doi:

[10.1111/psyp.12335](https://doi.org/10.1111/psyp.12335)

Roelofs, A., & **Piai, V.** (2015). Aspects of competition in word production: Reply to Mahon and Navarrete. *Cortex*, *69*, 420-424. doi: [10.1016/j.cortex.2014.10.016](https://doi.org/10.1016/j.cortex.2014.10.016)

Piai, V., Roelofs, A., Jensen, O., Schoffelen, J. M., & Bonnefond, M. (2014). Distinct patterns of brain activity characterise lexical activation and competition in spoken word production. *PLoS ONE* *9*(2): e88674. doi: [10.1371/journal.pone.0088674](https://doi.org/10.1371/journal.pone.0088674)

Piai, V., Roelofs, A., & Schriefers, H. (2014). Locus of semantic interference in picture naming: Evidence from dual-task performance. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *40*, 147-165. doi: [10.1037/a0033745](https://doi.org/10.1037/a0033745)

Piai, V., Roelofs, A., & Maris, E. (2014). Oscillatory brain responses in spoken word production reflect lexical frequency and sentential constraint. *Neuropsychologia*, *53*, 146-156. doi:

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Roelofs, A., **Piai, V.**, & Schriefers, H. (2013). Context effects and selective attention in picture naming and word reading: Competition versus response exclusion. *Language and Cognitive Processes*, *28*, 655-671. doi: [10.1080/01690965.2011.615663](https://doi.org/10.1080/01690965.2011.615663)

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Piai, V., Roelofs, A., & Van der Meij, R. (2012). Event-related potentials and oscillatory brain responses associated with semantic and Stroop-like interference effects in overt naming. *Brain Research*, *1450*, 87-101. doi: [10.1016/j.brainres.2012.02.050](https://doi.org/10.1016/j.brainres.2012.02.050)

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Roelofs A., & **Piai, V.** (2011). Attention demands of spoken word planning: A review. *Frontiers in Psychology*, *2*:307. doi: [10.3389/fpsyg.2011.00307](https://doi.org/10.3389/fpsyg.2011.00307)

Roelofs, A., **Piai, V.**, & Garrido Rodriguez, G. (2011). Attentional inhibition in bilingual naming performance: Evidence from delta-plot analyses. *Frontiers in Psychology*, *2*:184. doi: [10.3389/fpsyg.2011.00184](https://doi.org/10.3389/fpsyg.2011.00184)

Roelofs, A., **Piai, V.**, & Schriefers, H. (2011). Selective attention and distractor frequency in naming performance: Comment on Dhooge and Hartsuiker (2010). *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *37*, 1032-1038. doi: [10.1037/a0023328](https://doi.org/10.1037/a0023328)

Book chapters

Piai, V., & Garg, A. (2024). A concise overview of the spatial and temporal underpinnings of lexical selection in spoken word production. *Reference Module in Neuroscience and Biobehavioral Psychology*. doi: [10.1016/B978-0-12-820480-1.00123-6](https://doi.org/10.1016/B978-0-12-820480-1.00123-6)

Piai, V., & Borges, P. (2023). The electrophysiology of language production. In R. Hartsuiker & K. Strijkers (Eds.), *Cognitive processes of language production*. Psychology Press.

Satoer, D., & **Piai, V.** (2022). Speech and Language. In R. Kessels, E. van den Berg, R. Ponds, J. Spikman & M. van Zandvoort (Eds.), *Clinical Neuropsychology*. Boom.

Piai, V., & Zheng, X. (2019). Speaking waves: neuronal oscillations in language production. *Psychology of Learning and Motivation*, 71, 265-302. doi: [10.1016/bs.plm.2019.07.002](https://doi.org/10.1016/bs.plm.2019.07.002)

de Zubicaray, G., & **Piai, V.** (2019). Investigating the spatial and temporal components of speech production. In G. de Zubicaray, & N. O. Schiller (Eds.), *The Oxford Handbook of Neurolinguistics*. Oxford University Press. doi: [10.1093/oxfordhb/9780190672027.013.19](https://doi.org/10.1093/oxfordhb/9780190672027.013.19)

Flinker, A., **Piai, V.**, & Knight, R. T. (2018). Intracranial electrophysiology in language research. In S-A. Rueschemeyer, & M. G. Gaskell (Eds.), *The Oxford Handbook of Psycholinguistics*. Oxford University Press. doi: [10.1093/oxfordhb/9780198786825.013.43](https://doi.org/10.1093/oxfordhb/9780198786825.013.43)

Products

Released

"SimpTell", an application for the training of elliptical language production style by patients with chronic Broca's aphasia (*Co-developer, with main developer Marina Ruiter and co-developer Ardi Roelofs*)

Under development

"Syntest", a Dutch test for the comprehension of (complex) syntactic structures (*with Nikki Janssen*)

"Quest", for Quick ESTimation of language functioning in Dutch (*with Adrià Rofes*)

"TeleTaal", a telephone-based language assessment battery to assess patients with mild language disorders (*Co-developer, with Djaina Satoer and Elke De Witte*)

Invited Presentations

Keynote Talks

Beyond bare picture naming. International Workshop on Language Production, Marseille, France. June, 2024. 2024

Lexical selection, control, and the role of brain-based measures. Science of Aphasia, Nice, France. September, 2023. 2023

Production is (not) comprehension (and what can the brain tell us about that?). Architectures and Mechanisms for Language Processing, San Sebastian, Spain. August, 2023.

The neural basis of language production as we speak. Science of Aphasia, Bordeaux, France. September, 2022. 2022

Neurale processen tijdens het spreken. Werkverband Amsterdamse Psycholinguïsten Symposium. Amsterdam, the Netherlands. January, 2020. 2020

Context effects in language production examined with electrophysiology. International Symposium on Neurobiology of Language. Waseda University, Tokyo, Japan. February, 2019. 2019

	Taalverwerking in relatie tot geheugen: Van fundamenteel onderzoek naar klinische toepassing. Afasieconferentie "State of the Art 2017". Zeist, the Netherlands. October, 2017.	2017
Symposium Talks	Language and/or memory: How to slice the domain-cake? Symposium organisation and talk. 42nd European Workshop on Cognitive Neuropsychology, Italy. January, 2024.	2024
	What has 150+ years of language mapping given us? Talk at symposium <i>Explaining the brain: From neural mechanisms to computational models</i> , Dutch Society for Psychonomics, the Netherlands. December, 2023.	2023
	Memory retrieval for spoken word production and its lateralisation. Talk at symposium <i>New insights in the neurophysiology of language</i> , 18th European Congress of Clinical Neurophysiology, Marseille, France. May, 2023.	
	Reconfiguration of the language network. Talk at symposium <i>Cognitive Networks: Trends in Multimodal Approaches and Connectomics</i> , 26th Cognitive Neuroscience Society annual meeting, San Francisco, USA. March, 2019.	2019
Invited Talks	What in the brain does the speaking?. C-STAR lecture series. March, 2024.	2024
	The part of language that is memory. Colloquium UC Irvine Language Science. January, 2024.	
	The neural basis of language production as we speak. City University of Hong Kong. June, 2023.	2023
	Neural basis of language production as we speak: Lessons from lesion models and electrophysiology. Katholieke Universiteit Leuven, Belgium. June, 2023.	
	Picture naming to study word production: some steps further (and some methodological hurdles). Université de Genève, Switzerland. October, 2023.	
	The neural basis of language production as we speak. Université de Lille, France. November, 2023.	
	Speaking: evidence from electrophysiology and brain lesions. Special interest lecture at Donders MEG/EEG Toolkit, Radboud University, Nijmegen, the Netherlands. April, 2022.	2022
	Drawing inferences about word production in context. Neurobiology of Language: Key Issues and Ways Forward, MPI, Nijmegen, the Netherlands. April, 2021.	2021
	Speaking: evidence from electrophysiology and brain lesions. Special interest lecture at Donders MEG/EEG Toolkit, Radboud University, Nijmegen, the Netherlands. April, 2021.	
	Conceptual and lexical retrieval in spoken word production. Research Colloquium at Department of Comparative Linguistics, University of Zurich. March, 2021.	
	Conceptual and lexical retrieval in spoken word production. IMPRS Conference 2020, Interdisciplinary Approaches in the Language Sciences, Nijmegen, the Netherlands. June, 2020.	2020
	Memory and control in spoken word production: evidence from electrophysiology and brain lesions. Institute of Cognitive Neuroscience, University College London. February, 2020.	

- The effects of head and neck tumours on neurocognition before and after treatment.** 2019
Autumn Conference of the Dutch Workgroup for Head and Neck Tumours. Maastricht, the Netherlands. October, 2019.
- Interfering and facilitating contexts in spoken word production.** Brownbag Lab Seminars. University of Geneva, Switzerland. June, 2019.
- Comprehending and producing words: scalp and intracranial electrophysiology.** Satellite Seminar on Neurobiology of Language. Waseda University, Tokyo, Japan. February, 2019.
- Context-driven word production through an electrophysiological lens.** Queensland University of Technology, Brisbane, Australia. November, 2018. 2018
- Language and speech functioning through an electrophysiological lens.** CLaS-CCD Colloquium Series. Macquarie University. November, 2018.
- Key considerations for EEG and language studies.** School of Psychology and Clinical Language Sciences, University of Reading, UK. June, 2018.
- Oscillations in language research.** Summer Neurolinguistics School, National Research University Higher School of Economics, Moscow, Russia. May, 2018.
- Neuropsychologie en de Psychologie van Taal.** Nederlandse Vereniging voor Neuropsychologie Voorjaarsconferentie 2018. Utrecht, the Netherlands. April, 2018.
- Intracranial electrophysiology in language research.** National Research University, Higher School of Economics, Moscow, Russia. November, 2017. 2017
- Language production and acquired language disorders.** International Radboud Summer School, Introduction to Cognitive Neuroscience. Nijmegen, the Netherlands. August, 2017.
- Oscillations as a bridge between language and other cognitive domains.** International Symposium on Neural Oscillations in Speech and Language Processing. Harnack Haus of the Max Planck Society, Berlin, Germany. May, 2017.
- Context-driven word production.** Department of Neuropsychology, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany. October, 2016. 2016
- Context-driven word production in the healthy and stroke populations.** Introduction to International Max Planck Research School PhD students. Nijmegen, the Netherlands. September, 2016.
- Language production and acquired language disorders.** International Radboud Summer School, Introduction to Cognitive Neuroscience. Nijmegen, the Netherlands. August, 2016.
- Electrophysiology measured over the scalp and intracranially: examples from context-driven word production.** Summer School - Human Language: From Genes and Brains to Behaviour. Berg en Dal, the Netherlands. July, 2016.
- Where language production meets memory (or how).** Center for Mind and Brain, Davis, USA. February, 2016.
- The N450 in picture-word interference tasks.** Donders Discussion. Nijmegen, the Netherlands. October, 2011. 2011 and earlier

Comprehending particle verbs. Experimental Linguistics Talks Utrecht. Utrecht, the Netherlands. September, 2009.

Supervision

Postdoctoral researchers

Britta Westner, *Radboud University* 2022-2023
Joanna Sierpowska, *Radboud University* 2018-2021
Jana Klaus, *Radboud University* 2017-2018

PhD Candidates

Irina Chupina, *Radboud University* 2022-present
Christina Papoutsi, with prof. Antje Meyer and dr. Elli Tourtouri, *Radboud University and Max Planck Institute for Psycholinguistics*
Rosemarije Weterings, *Radboud University* 2021-present
Imke Wets, with prof. Helen de Hoop, dr. Marina Ruiters and dr. Lotte Hogeweg, *Radboud University*
Natascha Roos, *Radboud University* 2019-present
Yang Cao, *Radboud University*
Sümeyye Sezer, with dr. Mark ter Laan, *Radboudumc*
Adrian Jodzio, with prof. Peter Indefrey, *Radboud University* 2018-present
Arushi Garg, with prof. Ardi Roelofs and prof. James McQueen, *Radboud University* 2016-present
Matteo Mascelloni, with prof. Greig de Zubicaray, *Queensland University of Technology, Australia*, 2023 Graduated
João Ferreira, with prof. Ardi Roelofs, *Radboud University*, 2023
Ileana Camerino, *Radboud University*, 2022
Nikki Janssen, with prof. Ardi Roelofs and prof. Roy Kessels, *Radboud University*, 2020
Lara Todorova, with dr. David Neville, *Radboud University*, 2020

Master's Students

I am an associated partner of the Erasmus+ Mundus Joint Master Degree programme in Clinical Linguistics

Main supervision: thesis

Co-supervision (by graduate students or post-docs in my group) is indicated

Adán Gracia-Gonzalez, *Radboud University* | Xirong Hu, *Radboud University* 2024-2025
Xiangjie Zhang, *Radboud University* | Elizaveta Vilenchik, *Radboud University* | Carleen Peetoom, *Radboud University* | Sophie Reeders, *Radboud University* 2023-2024
Kai Koster, *Radboud University* | Kirstin Bleumink, *Radboud University* | Yunzhi Luo, *Radboud University* | Jiachen Yao, *Radboud University* (with dr. Ashley Lewis) 2022-2023

Nikita Boers, <i>Radboud University</i> (with Natascha Roos) Nora Kennis, <i>Radboud University</i> (with dr. Xiaochen Zheng and dr. Angela de Bruin) Owen Kapelle, <i>University of Groningen</i> (with dr. Rinus Verdonschot)	2021-2022
Pauline van Barschot, <i>Radboud University</i> Rosemarije Weterings, <i>European Master in Clinical Linguistics</i> (with Joao Ferreira) Seniz Canibek, <i>Radboud University</i> Leonie de Regt, <i>Radboud University</i>	2020-2021
Priscila Borges, <i>European Master in Clinical Linguistics</i> Irina Chupina, <i>European Master in Clinical Linguistics</i> Christina Papoutsi, <i>Utrecht University</i> Imke Wets, <i>Radboud University</i>	2020
Cecília Hustá, <i>University of Groningen</i> (with dr. Xiaochen Zheng)	2019
Anna Dewenter, <i>Radboud University</i> (with dr. Joanna Sierpowska)	2018-2019
Laura ten Dijke, <i>University of Amsterdam</i> Karleen van Dijk, <i>Radboud University</i>	2018
Elena Rossetto, <i>University of Trento</i> (with dr. Jana Klaus) Natascha Roos, <i>Radboud University</i> Rosanne Abrahamse, <i>Radboud University</i>	2017-2018
Manon Jacobs, <i>Radboud University</i> (with Nikki Janssen) Tessa Ruijs, <i>University of Amsterdam</i>	2017

Co-supervision: thesis

My role is secondary

Hajira Mumtaz, <i>European Master in Clinical Linguistics</i> (with dr. Willemijn Doedens)	2021
Giulio Severijnen, <i>Radboud University</i> (with prof. James McQueen)	2019-2020
Margot Magnus, <i>Radboud University</i> (with Nikki Janssen)	2018-2019
Manon Hendriks, <i>Radboud University</i> (with prof. Ton Dijkstra)	2017-2018
Svetlana Gerakakis, <i>Radboud University</i> (with prof. Ardi Roelofs)	2010-2011
Gabriela Garrido Rodriguez, <i>Radboud University</i> (with prof. Ardi Roelofs)	2009-2010

Internship

Co-supervision by graduate students or post-docs in my group is indicated

Ali Lotfi, <i>Radboud University</i> (with Yang Cao)	2022
Lydia Huang, <i>Radboud University</i> (with Yang Cao) Dilys Eikelboom, <i>Radboud University</i> (with Adrian Jodzio) Sevilay Tokgöz, <i>Radboud University</i> (with Anna Dewenter)	2021
Juliette Vertregt, <i>University of Groningen</i>	2020
Anne Billot, <i>Pierre-and-Marie-Curie University, France</i> Nathalie Meyer, <i>École Polytechnique Fédérale de Lausanne, Switzerland</i>	2017

Bachelor's Students

Honours thesis

Laurie Marsman, <i>Radboud University</i> (with dr. Giesje Nefs) Joran Muller, <i>Radboud University</i>	2019-2020
Tamar Ardesch, <i>Radboud University</i> (with Anna Dewenter)	2018-2019
Rosemarije Weterings, <i>Radboud University</i> (with dr. Marina Ruiten)	2017-2018

Thesis

Mirthe van Dijk, <i>University of Amsterdam</i> Adán Gracia, <i>University of Amsterdam</i> Julia Chauvet, <i>University of Amsterdam</i> (with Natascha Roos)	2020-2021
Sjoerd van Erp, <i>Radboud University</i> (with Ileana Camerino and Joao Ferreira)	2020
Ingeborg Roete, <i>Radboud University</i>	2012

Internship

Fleur Hartskeerl, <i>Radboud University</i>	2021
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Teaching

I conceived of, co-authored, edit, and mantain Speaking: The free book , a freely available introductory book on the (neuro)psychology of language production. <i>Research Master's Programme in Cognitive Neuroscience, Radboud University</i> Coordinator and Lecturer for "Neurobiology of Language" (2019-present); Lecturer for "Cognitive Neuroscience of Memory" (2017-2018), "Trends in Cognitive Sciences" (2018-present)	2017-present
<i>Bachelor's Programme in Psychology, Radboud University</i> Lecturer for "Brain and Cognition" (2017-present), "Applied Research Methods" (2020-present), Co-coordinator for "Language and Communication" (2019-present)	2017-present
Instructor for "Health Psychology", "Introduction to Brain Studies", "Introduction to General Psychology", "Theoretical Psychology" Lecturer for "Applied Research Methods in Brain Studies"	2010-2013

Media and Outreach

Print [De Volkskrant](#) | [Algemeen Dagblad](#) | [The Asha Leader](#) | [The Daily Californian](#) | [Donders Newsletter](#)

Radio and podcast [BNR nieuwsradio](#) | [Mindtrace Podcast: The SCIENCE of language](#) | Science Today on CBS Radio News

Online [Nemo Kennislink 1](#) | [Nemo Kennislink 2](#) | [Nemo Kennislink 3](#) | [Nemo Kennislink 4](#) | [California Magazine](#) | [M.D./Alert](#) | [Quartz](#) | [NWO](#) | [ZME Science](#) | [Science Alert](#) | [Fanpage.it](#)

Outreach	Article contribution to O2, the magazine of the Dutch Association for Physiotherapy within Lymphology and Oncology (NVFL)	2020
	Radio interview: Relatie Brein En Taal , <i>GL8 Media</i>	2018
	Public talk: Hoe werkt ons taalsysteem? Over de relatie tussen taal en hersenen, <i>Loop- en Ontmoetingscentrum, Molenhoek</i>	
	Laureate presentation at Rubicon information meeting, <i>Radboud University, Nijmegen</i>	2017

Interview and demo to high school students (Profielwerkstuk)	2016-2017
Co-facilitator for Aphasia Stroke Support Group, <i>Veterans Affairs Hospital, Martinez, California, USA</i>	2014-2016
Team member for De Jonge Akademie on Wheels, <i>Openbaar Zeister Lyceum, Zeist</i>	2008

Professional Activities

Doctoral Examination Board	Saskia Mooijman, <i>Radboud University, Nijmegen</i> Jill Kries, <i>KU Leuven, Belgium</i> Mansoureh Fahimi Hnazaee, <i>KU Leuven, Belgium</i> Amie Fairs, <i>Radboud University, Nijmegen</i> Ana Murteira, <i>Macquarie University, Sydney, Australia</i>	2019-present
PhD Opposition	<i>Radboud University, Nijmegen</i> Flora Vanlangendonck Natalia Shitova Ashley Lewis Jim Herring Xiaochen Zheng Greta Kaufeld Kristijan Armeni Karen Dijkstra Federica Bartolozzi Rowan Sommers <i>Other universities</i> Guilia Krethlow, <i>University of Geneva</i> Julie Franco, <i>University of Geneva</i>	2017-present
Recruiting Committees	<i>Radboud University, Max Planck Institute for Psycholinguistics</i>	2016-present
Ad-hoc Reviewer	See my Publons profile for details BMC Psychology; Brain; Brain and Development; Brain and Language; Brain Topography; Cerebral Cortex; Cognition; Collabra; Cortex; Emotion; Frontiers in Human Neuroscience; Frontiers in Language Sciences; Human Brain Mapping; Journal of Cognitive Neuroscience; Journal of Experiment Psychology: General; Journal of Experimental Psychology: Human Perception and Performance; Journal of Experimental Psychology: Learning, Memory, and Cognition; Journal of the International Neuropsychological Society; Journal of Neurolinguistics; Journal of Neuroscience; Language and Speech; Language, Cognition and Neuroscience; Nature Communications; NeuroImage; Neuropsychologia; PLoS ONE; Proceedings of the National Academy of Sciences; Psychonomic Bulletin & Review; Quarterly Journal of Experimental Psychology	2012-present
Guest lectures	The role of the psychologist in awake brain mapping. Lectures organised by Vakdispuut Brainwave. <i>Utrecht University, the Netherlands</i> Language testing during awake brain surgery (and beyond). <i>University of Groningen, the Netherlands</i>	2021, 2022 2020-present

Producing words: The eletrophysiology of memory and motor aspects of speaking. *University of Sao Paulo, Brazil*

2019, 2022, 2024

Organisation

Tutor for FieldTrip Toolkit, *Nijmegen, the Netherlands*

2019-present

Research committee member, *Department of Medical Psychology, Radboudumc, Nijmegen*

2016-2022

Co-organiser of Psycholinguistics in Flanders Meeting, *Nijmegen, the Netherlands*

2012

Organiser of the Language Division Meetings, *Donders Centre for Cognition*

2010-2013

Last updated: August 2024