



Teja Rebernik

PHD CANDIDATE (CENTER FOR LANGUAGE AND COGNITION GRONINGEN)

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Education

PhD Candidate (NWO Grant PhD in the Humanities), UNIVERSITY OF GRONINGEN

2019–now

PhD on speech motor control in Parkinson's disease, funded by the Dutch Research Council's *PhD in the Humanities* grant. Under the supervision of prof. dr. Martijn Wieling, prof. dr. Roel Jonkers, and dr. Aude Noiray.

Research MA in Language & Cognition (*cum laude*), UNIVERSITY OF GRONINGEN

2017–2019

Thesis project: "The effect of levodopa and fatigue on dysarthric speech of Slovenian patients with Parkinson's disease (9.5/10).

MA in Journalism, UNIVERSITY OF GRONINGEN

2015–2017

BA in Interlingual Communication, UNIVERSITY OF LJUBLJANA

2012–2015

Bachelor programme focusing on training future translators; language combination: Slovenian – English – French.

Scholarships & Grants

NWO PhD in the Humanities grant for PhD project, €250,000

2019

Dutch Research Council grant funding my PhD research.

ParkinsonNL grant for ParkinsonNEXT, €3,895

2022

Grant from the ParkinsonNL association for recruiting individuals with Parkinson's disease through the ParkinsonNEXT platform.

Aletta Health Grant for Public Health Outreach, €2,500

2021

Grant from the Aletta Jacobs School of Public Health to create a brochure on speech problems in Parkinson's disease.

CIPL Travel Grant for attending ISSP 2020, €500

2020

Research Assistant Programme for Excellent Students, €5,500

2018

City of Maribor Scholarship for Excellent Students, €3,000

2015

Erasmus Scholarship for study abroad, €2,400

2014

Slovenian Zois State Merit Scholarship for Excellent Students, €12,500

2008

Research Experience

Speech Lab Groningen, LAB MANAGER (2019–2023), RESEARCH ASSISTANT (2018–2019)

2018–now

Coordinated lab facilities and activities; trained new lab members in the use of equipment. Helped set up the mobile laboratory of the Faculty of Arts, SPRAAKLAB, and train new users. Helped set up multiple projects for outreach events, including project "Motor speech adaptation in Dutch children" for Zwarte Cross 2022 (with prof. dr. Martijn Wieling); project "Articulation of liquid sounds in adult speakers" for Noorderzon 2022 (with dr. Mark Tiede, Haskins Laboratories); project "Flexibility of speech" for Festival della Scienza 2022 (with prof. dr. Martijn Wieling, dr. Defne Abur); project "How does a language evolve and change" for Lowlands Science 2019 (with dr. Gregory Mills, prof. dr. Martijn Wieling); project "The effect of alcohol on speech" for Lowlands Science 2018 (with prof. dr. Martijn Wieling).

Vrije Universiteit Brussel, SCIENTIFIC COLLABORATOR

2023–now

Joined the Brussels Centre for Language Studies as unsalaried scientific collaborator.

Antoni van Leeuwenhoek (Dutch Cancer Institute), RESEARCHER

2021–2023

Coordinated acoustic and articulatory data collection for project "Articulation and coordination of speech after treatment for oral cancer". With prof. dr. Max Witjes (University Medical Center Groningen), dr. Rob van Son (University of Amsterdam; Dutch Cancer Institute), prof. dr. Michiel van den Brekel (Dutch Cancer Institute), & Bence Halpern (University of Amsterdam; Dutch Cancer Institute).

Center for Language and Cognition Groningen, RESEARCH ASSISTANT

2017–2019

Assisted on multiple projects, including Amélie la Roi's PhD project "*Idioms in the aging brain*" (EEG data collection); Jidde Jacobi's PhD project "*Speech deterioration in Parkinson's disease*" (EMA and acoustic data collection); dr. Stefanie Keulen's postdoc project "*When the voice doesn't speak to the mind: an articulographic investigation of feedback deficits in Childhood Apraxia of Speech*" (collaboration with Vrije Universiteit Brussels); dr. Dicky Gilbers' internship project "*Cognitive strategies in structuring language and music*".

Other Academic Experience

TEACHING & SUPERVISION

Introduction to Research Methods, 5 ECTS

2020/2021; 2021/2022

(Co-)taught course on research methods to BA students in Information Science.

New Sounds, 10 ECTS

2019/2020

(Co-)taught course on phonetics and phonology to MA students in linguistics.

Research training modules, 12 STUDENTS

2019–now

(Co-)supervised BA and MA students for training modules set to develop research skills (e.g., acoustic analysis, data collection etc.).

BA/MA theses, 12 STUDENTS

2019–now

(Co-)supervised BA and MA students on their BA and MA theses, mostly related to speech motor control in clinical populations.

Guest lectures, FACULTY OF ARTS; FACULTY OF SCIENCE AND ENGINEERING

2019–now

Guest lectures on speech in Parkinson's disease for multiple courses in MA Neurolinguistics and European Master's in Clinical Linguistics; tutorial on the basics of PRAAT for Research Master in Behavioural and Cognitive Neuroscience.

COMMITTEES

Faculty Council of the Faculty of Arts, STAFF FACTION

2021–2023

Elected member of the staff faction of the Faculty council, advising the Faculty board on policy decisions. Specifically focused on internationalization and well-being of PhD students. Additionally served as a liaison to the Cluster Advisory Committee for Linguistics.

Speech Motor Control 2022, ORGANIZING COMMITTEE MEMBER

2022

Helped organize Speech Motor Control 2022. Coordinated volunteers and in charge of formatting/editing the Proceedings.

TABU Dag 2019, ORGANIZING COMMITTEE MEMBER

2019

Helped organize TABU Dag 2019. Specifically focused on sustainability.

Selected Outreach & Science Communication Experience

WITH SPEECH LAB GRONINGEN

Dag van de wetenschap 2023, BRUSSELS, BELGIUM

November 2023

Noorderzon Festival 2023, GRONINGEN

August 2023

Festival della Scienza, GENOA, ITALY

October 2022

Noorderzon Festival 2022, GRONINGEN

August 2022

Zwarte Cross 2022, LICHTENVOORDE

July 2022

Expeditie Next, FRANEKER

May 2022

October Kindermaand, SLOCHTEREN / TER APEL / LOPPERSUM / GRONINGEN

October 2021

Zpannend Zernike, GRONINGEN

October 2021

Noorderzon 2021, GRONINGEN

August 2021

Letteren Festival, GRONINGEN

September 2019

Lowlands Science 2019, BIDDINGHUIZEN

Aug. 2019

Night of Arts & Science, GRONINGEN

June 2019

Lowlands Science 2018, BIDDINGHUIZEN

August 2018

OTHER

National Science Communication Day, INVITED SPEAKER

October 2022

Frekvencia X: Motorika govora pri parkinsonovi boleznii, PODCAST GUEST

September 2021

Wetenschap revisited: Spraakbewegingen in beeld brengen, GUEST BLOG POST

May 2020

Skills

Speech data collection	Electromagnetic articulography (EMA), Ultrasound Tongue Imaging (UTI), acoustic recordings
Other data collection	EEG, perception (OpenSesame), survey (Qualtrics)
Data analysis	PRAAT, MATLAB, RStudio
Editing	Adobe Audition, Adobe Premiere Pro
Languages	Slovenian (native), English (C2), Dutch (C1), French (B2-C1)

Miscellaneous Work

- Copyeditor and translator**, START:UP SLOVENIA AND START:UP ALPE-ADRIA 2010-2019
- Conference organizer**, PODIM: REGIONAL STARTUP ECOSYSTEM EPICENTER 2014-2019

Invited talks & workshops

Kinematic and acoustic contributors to formant perturbation responses in individuals with and without Parkinson's disease. Invited presentation for Séminaires de Recherches en Phonétique et Phonologie (LPP - CNRS & Université Sorbonne Nouvelle/Paris 3, Paris, France; **October 2023**).

Electromagnetic Articulography Workshop. Workshop at the autumn school "Practical Approaches to Human Multimodal Behaviour" (Donders Institute, Nijmegen, Netherlands; **September 2023**).

Speech motor control in Parkinson's disease. Invited presentation for the Slovenian Speech Therapy Organization D.Logs (**April 2023**) and at the Slovenian Speech Therapy Congress (Murska Sobota, Slovenia; **October 2022**.)

Approaches in electromagnetic articulography. Invited presentation and demonstration at winter school "Coping with the complexity in speech production and perception" (Chorin, Germany; **July 2022**)

Overview of electromagnetic articulography. Invited presentation for the Linguistic Research Infrastructure (University of Zurich, Switzerland; **December 2021**)

Academic output: Journals

PEER-REVIEWED JOURNAL PAPERS (AS FIRST AUTHOR)

Rebernik, T., Jacobi, J., Buurke, R., Tienkamp, T., Tsiwah, F., Oud, S., Reinders, A., Abur, D., & Wieling, M. (submitted). Mobile Laboratory SPRAAKLAB: technical specifications, practical experiences, and a validation study.

Rebernik, T., Jacobi, J., Jonkers, R., Noiray, A., & Wieling, M. (2021). A review of data collection practices using electromagnetic articulography. *Journal of Laboratory Phonology*, 12(1), 6. [DOI link](#).

Rebernik, T., Jacobi, J., Tiede, M., & Wieling, M. (2021). Accuracy assessment of two electromagnetic articulographs: NDI Wave and NDI Vox. *Journal of Speech, Language, and Hearing Research*, 64(7), 2637-2667. [DOI link](#).

Rebernik, T., & Gilbers, D. (2017). Potential interactions of Slovenian speech prosody and Slovenian folk song. *Slavistična revija*, 65(4).

PEER-REVIEWED JOURNAL PAPERS (AS CO-AUTHOR)

Tienkamp, T. B., **Rebernik, T.**, Halpern, B. M., van Son, R. J. J. H., ..., Abur, D. (accepted/in press). Quantifying articulatory working space in individuals surgically treated for oral cancer with electromagnetic articulography. *Journal of Speech, Language, and Hearing Research*.

Gilbers, D. & **Rebernik, T.** (2022). A constraint-based approach to structuring language and music. In M. Scharinger & R. Wiese (Eds). *How Language Speaks to Music: Prosody from a cross-domain perspective*, De Gruyter.

Offrede, T. F., Jacobi, J., **Rebernik, T.**, de Jong, L., Keulen, S., Veenstra, P., Noiray, A., & Wieling, M. (2020). The Impact of Alcohol on L1 versus L2. *Language and Speech*. [DOI link](#).

Academic output: Conferences

ORAL PRESENTATIONS

Rebernik, T., Tienkamp, T., Chaboksavar, S., Hoekzema, N., ..., Abur, D. (2024). Kinematic and acoustic contributors to formant perturbation responses in individuals with and without Parkinson's disease. Motor Speech Conference (San Diego, USA, February 2024).

Polsterer, K. M., **Rebernik, T.**, Tienkamp, T. B., ..., Abur, D. (2024). Responses to gradual auditory perturbations of vowel formant across age. Motor Speech Conference (San Diego, USA, February 2024).

Rebernik, T., Tiede, M., Tienkamp, T. B., Abur, D., Jacobi, J., & Wieling, M. Lingual motor learning based on real-time visual feedback in individuals with and without Parkinson's disease. *Accepted for ISSP 2024*.

Tienkamp, T. B., **Rebernik, T.**, Jacobi, J., Wieling, M., & Abur, D. The Impact of Electromagnetic Articulography Sensors on the Articulatory Acoustic Vowel Space in Speakers with and without Parkinson's Disease. *Accepted for ISSP 2024*.

Tiede, M., Boyce, S., **Rebernik, T.**, & Wieling, M. Production Allophones of North American English Liquids. *Accepted for ISSP 2024*.

Wieling, M., **Rebernik, T.**, & Jacobi, J. (2023). SPRAAKLAB: a mobile laboratory for collecting speech production data. *20th International Congress of the Phonetic Sciences, Prague*.

Jacobi, J., **Rebernik, T.**, Jonkers, R., Maassen, B., Proctor, M., & Wieling, M. (2020). Characterizing tongue tremor in Parkinson's disease using EMA. *Proceedings of the 12th International Seminar on Speech Production*, Paper 73.

Jacobi, J., **Rebernik, T.**, Jonkers, R., Maassen, B., Proctor, M., & Wieling, M. (2019). The effect of Levodopa on articulation in Parkinson's disease: a cross-linguistic study. *Proceedings of ICPHS 2019*, pp. 1069-1073.

POSTER PRESENTATIONS (AS FIRST AUTHOR)

Rebernik, T., Jacobi, J., Tiede, M., & Wieling, M. Identifying different types of lingual tremor in individuals with Parkinson's disease using electromagnetic articulography: a follow-up study. *Accepted for ISSP 2024*.

Hoekzema, N.*, **Rebernik, T.***, Tienkamp, T. B., ..., & Wieling, M. Assessing differences in articulatory-acoustic vowel space in Parkinson's disease phenotypes. *Accepted for ISSP 2024*.

Rebernik, T., Lentz, T. O., & Terband, H. Acoustic and kinematic correlates of adaptive responses to consistent formant perturbations in young healthy speakers. *Accepted for ISSP 2024*.

Rebernik, T., Tienkamp, T. B., Polsterer, K. M., Hukker, V., Medvedeva, M., van der Ploeg, M., Schepers, I., Sekeres, H., de Vries, W., Abur, D., Jonkers, R., Noiray, A., & Wieling, M. (2023). 5-minute formant adaptation task in Dutch children. *20th International Congress of the Phonetic Sciences, Prague*.

Rebernik, T., Jacobi, J., Jonkers, R., Noiray, A., Oud, S., Reinders, A., & Wieling, M. (2022). Investigating feedback and feedforward control during vowel production by Dutch adult speakers: insights from auditory feedback perturbation tasks. In *Proceedings of the 8th International Conference on Speech Motor Control Groningen*.

Rebernik, T., Halpern, B. M., Tienkamp, T. B., Jonkers, R., Noiray, A., van Son, R. J. J. H., van den Brekel, M. W. M., Witjes, M. J. H., & Wieling, M. (2022). The effect of masking noise on oral cancer speech acoustics and kinematics. In *Proceedings of the 8th International Conference on Speech Motor Control Groningen*.

Rebernik, T., Jacobi, J., Jonkers, R., Noiray, A., & Wieling, M. (2020). Experimental approaches in electromagnetic articulography. *Proceedings of the 12th International Seminar on Speech Production*, Paper 6.

Rebernik, T., Jacobi, J., Jonkers, R., Noiray, A., & Wieling, M. (2020). Experimental approaches in electromagnetic articulography. *Proceedings of LabPhon17*.

Rebernik, T., Jacobi, J., Jonkers, R., Proctor, M., & Wieling, M. (2020). The effect of levodopa and fatigue on dysarthric speech of Slovenian Parkinson's disease patients. Poster presentation at *TABU Dag 2019* (Groningen, 20 & 21 June 2019).

POSTER PRESENTATIONS (AS CO-AUTHOR)

Tienkamp, T. B., **Rebernik, T.**, Halpern, B. M., ..., Abur, D. (2024). Associations between acoustic, kinematic, self-reported and perceptual based measures of speech in individuals surgically treated for oral cancer. Motor Speech Conference (San Diego, USA, February 2024).

- Wieling, M., **Rebernik, T.**, Jacobi, J., Tienkamp, T. B., Tsiwah, F., & Abur, D. SPRAAKLAB: mobile laboratory to collect high-quality speech data. *Accepted for ISSP 2024*.
- Tienkamp, T. B., **Rebernik, T.**, Buurke, R., ..., & Abur, D. The Effect of Speaking Style on the Articulatory-Acoustic Vowel Space in Individuals with Tongue Cancer Before and After Surgical Treatment. *Submitted to ISSP 2024*.
- Polsterer, K., Hoekzema, N., Xingfeng, Y., Tienkamp, T., **Rebernik, T.**,... & Abur, D. Auditory Vowel Discrimination in Middle Childhood Compared to Adulthood. *Accepted for ISSP 2024*.
- Polsterer, K., Tienkamp, T. B., **Rebernik, T.**, ..., & Abur, D. Auditory-motor adaptation of vowels across adulthood. *Accepted for ISSP 2024*.
- Ciot, V., **Rebernik, T.**, Tienkamp, T., Jonkers, R., Noiray, A., Wieling, M., & Abur, D. (2023). Acoustic measures of voice quality in Dutch speakers with and without Parkinson's disease. *TABU Dag 2023*, Groningen.
- Hoekzema, N., **Rebernik, T.**, Tienkamp, T., Jonkers, R., Noiray, A., Rofes, A., Wieling, M., & Abur, D. (2023). The relation between lexical retrieval, cognition, and articulatory coordination in persons with Parkinson's disease. *TABU Dag 2023*, Groningen.
- Polsterer, K., **Rebernik, T.**, Tienkamp, T., Sekeres, H., Baque, A., Wieling, M., & Abur, D. (2023). Impact of typical aging on auditory-motor learning. *TABU Dag 2023*, Groningen.
- Ciot, V., **Rebernik, T.**, Tienkamp, T., Polsterer, K., Sekeres, H., Baque, A., Wieling, M., & Abur, D. (2023) The impact of an altered auditory feedback task on articulatory-acoustic vowel space. *TABU Dag 2023*, Groningen.
- Jacobi, J., **Rebernik, T.**, Jonkers, R., Maassen, B., Proctor, M., & Wieling, M. (2022). Spatial and temporal variability of speech gestures during fast syllable repetition in Parkinson's disease: an articulatory study. In *Proceedings of the 8th International Conference on Speech Motor Control Groningen*.
- Polsterer, K., **Rebernik, T.**, Jacobi, J., Wieling, M., Paquier, P., Jansen, A., Tiede, M., & Keulen, S. (2022, May 26–28). Speech motor control in Childhood Apraxia of Speech: The role of auditory and somatosensory feedback. *11th ESLA Congress of Speech and Language Therapy*, Salzburg, Austria.
- Tienkamp, T. B., **Rebernik, T.**, Halpern, B. M., Abur, D., van Son, R. J. J. H., Visscher, S. A. H. J., M. W. M., Witjes, M. J. H., & Wieling, M. (2022). The effect of masking noise on oral cancer speech acoustics and kinematics. In *Proceedings of the 8th International Conference on Speech Motor Control Groningen*.
- Monen, J. S. C., Halpern, B. M., **Rebernik, T.**, Tienkamp, T., van Son, R. J. J. H., Verkhodanova, V., Witjes, M. J. H., & Wieling, M. (2022). Automatic Detection and Severity Estimation for Oral Cancer Speech. *Young Female Researchers Workshop 2022*
- Wildenburg, K., Halpern, B. M., **Rebernik, T.**, Tienkamp, T., van Son, R. J. J. H., Verkhodanova, V., Witjes, M. J. H., & Wieling, M. (2022). Automatic Speech Recognition and Error Analyses of Dutch Oral Cancer Speech. *Young Female Researchers Workshop 2022*
- Janić, M., **Rebernik, T.**, Veenstra, P., Wissink, E., Wieling, M., & Proctor, M. (2020). Vowel production in congenitally blind and sighted Australian English speakers. *Proceedings of the 12th International Seminar on Speech Production*, Paper 92.
- Wieling, M., Tiede, M., **Rebernik, T.**, de Jong, L., Braggaar, A., Bartelds, M., Medvedeva, M., Heisterkamp, P., Offrede, T. F., Sekeres, H., Pot, A., van der Ploeg, M., Volkens, K., & Mills, G. (2020). A novel paradigm to investigate phonetic convergence in interaction. *Proceedings of the 12th International Seminar on Speech Production*, Paper 5.
- Keulen, S., Dobson, K., Jacobi, J., **Rebernik, T.**, Wieling, M., Tiede, M., Jansen, A., & Paquier, P. (2020). An electromagnetic articu-lographic investigation of feedback mechanisms in childhood apraxia of speech. *Proceedings of the 12th International Seminar on Speech Production*, Paper 40.
- De Jong, L., **Rebernik, T.**, Vaziri, S., & Wieling, M. (2020). Using ultrasound tongue imaging to improve L2 English pronunciation in Dutch students. *Proceedings of the 12th International Seminar on Speech Production*, Paper 61.
- Wieling, M., Blankevoort, G., Hukker, V., Jacobi, J., de Jong, L., Keulen, S., Medvedeva, M., van der Ploeg, M., Pot, A., **Rebernik, T.**, Veenstra, P., & Noiray, A. (2019). The influence of alcohol on L1 vs. L2 pronunciation. *19th International Congress of the Phonetic Sciences*, Melbourne, pp. 3622-3626.
- Gilbers, D., & **Rebernik, T.** (2018). Cognitive strategies in structuring language and music. Poster presentation at *TABU Dag 2019* (Groningen, 14 & 15 June 2018).