

Dirk Barend (Dirk-Bart)
den Ouden, PhD.

denouden@chapman.edu
+1 714-289-3548 (office)



EDUCATION

31 AUGUST 1995 **MA (cum laude)**, English Language & Literature, University of Groningen
31 MAY 1996 **MA (cum laude)**, General Linguistics, University of Groningen
16 MAY 2002 **PhD**, Neurolinguistics, University of Groningen

LANGUAGES

Dutch, Native speaker
English, Near-native competence
German, Professional working proficiency
French, Professional working proficiency

ACADEMIC POSITIONS

2025 – now **Full Professor**, Dept. of Communication Sciences and Disorders, Chapman University
2025 – now **Chair**, Dept. of Communication Sciences and Disorders, Chapman University
2025 – now **Director Chapman Aphasia and Neurolinguistics Laboratory**, Chapman University
2021 – 2022 **Interim Director Aphasia Laboratory**, Dept. of Communication Sciences and Disorders, University of South Carolina (USC)
2018 – 2022 **Graduate Director**, Dept. of Communication Sciences and Disorders, USC
2016 – 2025 **Associate Professor**, Dept. of Communication Sciences and Disorders, USC
2010 – 2025 **Director Neurolinguistics Laboratory**, Dept. of Communication Sciences and Disorders, USC
2010 – 2016 **Assistant Professor**, Dept. of Communication Sciences and Disorders, USC
2008 – 2010 **Research Associate** at the Aphasia and Neurolinguistics Research Laboratory, School of Communication, Northwestern University (NU)
2008 **Adjunct Lecturer**, School of Communication, NU
2006 – 2007 **Post-Doctoral Fellow** at the Aphasia and Neurolinguistics Research Laboratory, School of Communication, NU. Project: Neural correlates of aphasia treatment and recovery: fMRI investigations
2002 – 2005 **Post-Doctoral Fellow** at the Center for Language and Cognition Groningen, Department of Dutch, University of Groningen (RUG). Project: The role of the verb in Dutch during online spoken sentence processing and spoken sentence production
1999 – 2000 **Lecturer**, Department of English, RUG
1996 – 2001 **Researcher in Training**, on a grant from the Netherlands Organization for Scientific Research (NWO). Project: Phonological encoding deficiencies in conduction aphasia.

GRANTS

JULY 2025 – DECEMBER 2026 **ASPIRE in Greenville (ASPIREinG)**, USC Greenville
Title: VOICES: Valuing Outcomes Informed by Choice and Experience with Stroke in Aphasia
Role: Co-Investigator
Principal Investigator: A.B. Kennedy, LMT, BCTMB, DrPH

This project aims to develop and pilot a discrete choice experiment (DCE) to identify recovery outcomes that matter most to individuals with aphasia and their caregivers.

APRIL 2021– MARCH 2026 **NIH P50 DC014664**

Title: Center for the Study of Aphasia Recovery (C-STAR)

Role: Principal Investigator on Project-001 (293): Telerehab for Aphasia (TERRA)

Principal Investigator P50: J. Fridriksson, PhD

The purpose of C-STAR is to accomplish trans-disciplinary research to improve understanding of brain plasticity that supports aphasia recovery. This is the first 5-year renewal of the grant. The purpose of TERRA is to assess the efficacy of telerehabilitation relative to in-person behavioral intervention for aphasia.

APRIL 2019 – MARCH 2024 **Excellence Initiative**, University of South Carolina

Title: Aging Brain Cohort at the University of South Carolina (ABC@USC)

Role: Collaborator (collaboration between 20+ faculty members at USC)

Principal Investigator: J. Fridriksson, PhD

The goal of this project is to build a comprehensive cross-sectional and longitudinal database that includes factors related to brain structure and function, genetics, diet, physical health, social status, and neuropsychological testing.

MARCH 2019 – JUNE 2019 **SC Humanities** (Mini Grant # 19-1910-2)

Title: Play on Words: An Aphasic Drama Group

Role: Principal Investigator

This grant is in support of a drama group with actors who have aphasia. A self-generated play, “Don’t Have a Stroke on a Friday Night”, was performed in May 2019.

MARCH 2016 – MARCH 2021 **NIH P50 DC014664**

Title: Center for the Study of Aphasia Recovery (C-STAR)

Role: Co-Investigator on Project-001 (032): Modeling treated recovery from aphasia

Principal Investigator: J. Fridriksson, PhD

The purpose of C-STAR is to accomplish trans-disciplinary research to improve understanding of brain plasticity that supports aphasia recovery.

SEPT. 2013 – AUG. 2014 **SCTR Discovery Grant** (SCTR Grant# FY13 1407)

Title: Name Gaming: Development of a computerized speech rehabilitation method for independent use by speakers with aphasia after stroke

Role: Principal Investigator

This study developed and tested a computer program that allows autonomous drilling of speech output, relying on automated speech recognition and a gaming environment.

MAY 2013 – SEPT. 2014 **ASPIRE I**, University of South Carolina

Title: Cortical stimulation of verb-argument-structure processing

Role: Principal Investigator

This study aimed to validate the optimal target site for HD-tDCS to improve verb argument structure processing, hypothesized to result in improved sentence processing and production in aphasic speakers.

SEPT. 2012 – FEB. 2014 **NSF BCS-1225753**

Title: Theories of Sentence Processing and the Neuroscience of Language: Special Session at the 2013 CUNY Conference on Human Sentence Processing

Role: Co-Investigator

Principal Investigator: F. Ferreira, PhD

MAY 2012 – AUGUST 2013 **ASPIRE-III**, University of South Carolina

Title: MRI Simulator Shared Laboratory

Role: Co-PI

Principal Investigators: C. Rorden, PhD & J. Richards, PhD

Intramural funds for the acquisition of an MRI-simulator for participant and research staff training at the McCausland Center for Brain Imaging, USC.

APRIL 2009 – MAY 2011 **NIH R21 DC010036 1**

Title: Neurolinguistic intervention and cortical stimulation in agrammatic aphasia

Role: Co-Investigator

Principal Investigators: R.M. Levy, MD, PhD & C.K. Thompson, PhD

The goal of this project was to investigate how linguistically grounded intensive language treatment for individuals with aphasia after stroke can be enhanced by cortical stimulation, performed with implanted electrodes.

AWARDS

Canadian Studies Graduate Student Research Award, granted by Department of Foreign Affairs and International Trade of Canada and the International Council for Canadian Studies (ICCS), to work at the *Centre de recherche de l'institut universitaire de gériatrie de Montréal*, from March to June 1998.

Best Student Paper, Conference prize, 7th annual conference of the International Clinical Phonetics and Linguistics Association (ICPLA), Montréal, Canada, 17-19 May 1999.

Dissertation Prize 2002, Best linguistics dissertation in the Netherlands, awarded by the AVT (Linguistic Society of the Netherlands) and ANÉLA (*Association néerlandaise de linguistique appliquée*).

Taalgala publieksprijs 2003, Public award for best presentation at the 2003 Language Gala of the AVT (Linguistic Society of the Netherlands) and ANÉLA (*Association néerlandaise de linguistique appliquée*).

National Stuttering Association Research Fund Award, 2013, with Emily Garnett, MS, CCCSLP.

Project: "Effects of Cortical Stimulation on Self-Monitoring Performance in People Who Stutter".

Erasmus Mundus Scholarship, 2022-2024, to teach in the European Master's program in Clinical Linguistics+ (EMCL+) at the University of Ghent, Belgium.

TEACHING

Doctoral independent studies: "The Grounding of Linguistic Markedness" (COMD 800, USC);
"Phonology and Phonetics of Speech Production" (LING 806, USC)

Summer School, Introduction to Contemporary Neurolinguistics, National Research University Higher School of Economics (HSE), Moscow, Russia. Seminars: "Neurolinguistic findings with fMRI", "tDCS/TMS: Basics of the method", "Neurolinguistic findings with tDCS/TMS", "tDCS/TMS lab", "Brain stimulation in speech production research", "Brain stimulation in aphasia recovery" (Sept. 1-5, 2014; June 22-24, 2017)

Summer School on Language, Cognition and Neuroscience, The Hong Kong Polytechnic University, Hong Kong, tDCS workshop (Aug. 7-8, 2019)

European Master's in Clinical Linguistics ++ (EMCL ++), University of Gent, Belgium, "Syntax in Aphasia" (July 4-8, 2022; July 3-7, 2023, July 1-5, 2024), "Brain Stimulation" (July 11-15, 2022; July 10-14, 2023, July 8-12, 2024)

Netherlands Graduate School of Linguistics (LOT), University of Amsterdam, The Netherlands, "The Neurolinguistics of Syntax" (Jan. 7-11, 2019)

COMD-805: Advanced Study of Language Disorders in Adults (USC)

COMD-501: Anatomy and Physiology of the Speech and Hearing Mechanism (USC)

COMD-705: Adult Speech, Language, and Cognitive Disorders (USC)

COMD-790: Introduction to Research Methods in Speech and Language Pathology (USC)

COMD-822: Normal Basis of Speech Production (USC)

COMD-823: Normal Basis of Language (USC)

COMD-710: Linguistic Structure in Aphasia (USC)

LING-710: Introduction to Phonology (USC)

CSD-495-1: Disorders of Language Representation and Processing (NU)

Phonetics & Phonology, undergraduate and graduate levels (RUG)

History of Aphasiology (RUG)

Translation Dutch – English (RUG)

English Proficiency (RUG)

Dutch Proficiency for English speakers (University College London)

SUPERVISED DOCTORAL THESES

Lee, E.H., *Spanish-speaking learners' acquisition of English VPE and WH-extraction out of VPE*, Linguistics, U. of South Carolina, June 2012 (Committee member)

Wang, J., *Using Multivariate Pattern Analysis to Identify Conceptual Knowledge Representation in the Brain*, Experimental Psychology, U. of South Carolina, July 2013 (Committee member)

Shepherd, J.J., *Benefits of Video Games in Multidisciplinary Scientific Research*, Computer Science, Engineering & Computing, U. of South Carolina, November 2014 (Committee member)

Malyutina, S., *Neural correlates of verb argument structure processing*, Communication Sciences and Disorders, U. of South Carolina, June 2015 (Director)

Garnett, E.O., *Speech production in fluency disorders*, Communication Sciences and Disorders, U. of South Carolina, July 2015 (Director)

Basilakos, A.A., *Towards Improving the Evaluation of Speech Production Deficits in Chronic Stroke*, Communication Sciences and Disorders, U. of South Carolina, June 2016 (Committee member)

Cheng, W., *Implicit Causality And Consequentiality In Native And Non-Native Coreference Processing*, Linguistics Program, University of South Carolina, July 2016 (Committee member)

Baird, J., *The Effect of Exercise Intensity on Brain-Derived Neurotrophic Factor and Motor Learning*, Exercise Science, University of South Carolina, December 2017 (Committee member)

Kolar, M., *Enhancing Dancing: Examining the Potency of a Combined Action Observation & Brain Stimulation Intervention*. Exercise Science, University of South Carolina, May 2018 (Committee member)

Joharikhatoonabad, K., *Behavioral and Neural Correlates of Aging Effects on Temporal Predictive Mechanisms During Speech Production and Limb Movement*. Communication Sciences and Disorders, U. of South Carolina, May 2019 (Committee member)

Fahey, D., *The Shape of the Bilingual Mental Lexicon: Testing the diversity of cognates*. Linguistics Program, University of South Carolina, December 2020 (Committee member)

Galkina, E., *Vowel Quality in Second-Language Acquisition*. Linguistics Program, University of South Carolina, Projected 2021 (Committee member)

- Foster Lewis, A.**, *Effects of Social Comparative Feedback During Practice on Motor Sequence Learning and Resting State Connectivity*. Exercise Science, University of South Carolina, May 2022 (Committee member)
- Kristinsson, S.**, *Towards Understanding Therapy Response in Chronic Aphasia*. Communication Sciences and Disorders, U. of South Carolina, July 2021 (Committee member)
- Johnson Norris, L.**, *Neural Synchrony During Naturalistic Language Perception in Listeners with Aphasia*. Communication Sciences and Disorders, U. of South Carolina, July 2021 (Committee member)
- Keator, L.M.**, *Transcranial alternating current stimulation as an adjuvant for nonfluent aphasia therapy: A proof-of-concept study*. Communication Sciences and Disorders, U. of South Carolina, June 2022 (Committee member)
- Sangtian, S.**, *Behavioral and neurophysiological measures of speech auditory feedback processing impairment in left hemisphere stroke*. Communication Sciences and Disorders, U. of South Carolina, November 2022 (Co-Director)
- Riccardi, N.**, *Neuroanatomy of the semantic system*. Psychology. U. of South Carolina, May 2023 (Committee member)
- Nemati, S.**, *Lexical Access in Aphasia*. Communication Sciences and Disorders, U. of South Carolina, October 2024 (Committee member)
- Wilson, S.**, *Partner-Specific Alignment Across Multiple Linguistic Levels in Dialogue*. Linguistics Program. U. of South Carolina, Projected 2025 (Committee member)
- Hammond, L.**, *Measures of Functional Communication in Aphasia*. Communication Sciences and Disorders, U. of South Carolina, Projected 2026 (Director)
- Khoshhal Mollasaraei, Z.**, *Agrammatism vs Paragrammatism in Aphasia*, Communication Sciences and Disorders, U. of South Carolina, Projected 2026 (Committee member)

EDITORIAL WORK

- 1992 – 1993 **Editor of FILE:** A Literary Journal, University of Groningen.
- 1997 – 2005 **Contributor to Afasiologie**, magazine for Dutch speech therapists.
- 2003 – 2005 **Editor of TABU**, *Bulletin voor Taalwetenschap*, linguistics journal.
- 2004 – 2005 **Editor/contributor BCN Nieuwsbrief**, newsletter of the School of Behavioural and Cognitive Neurosciences, University of Groningen
- 2015 – 2016 **Member of Editorial Board**, *Journal of Speech Pathology and Therapy*
- 2018 – now **Guest Editor**, *American Journal of Speech-Language Pathology*
- 2002 – now **Manuscript Reviewer:**
Alzheimer Disease & Associated Disorders - An International Journal; American Journal of Alzheimer's Disease and Other Dementias; American Journal of Speech-Language Pathology; Aphasiology; Behavioral Brain Research; Brain; Brain and Language; Brain Communications; Brain Connectivity; Brain Topography; Canadian Journal of Linguistics/Revue Canadienne de Linguistique; Clinical Linguistics & Phonetics; Cerebral Cortex; Cognitive Neuropsychology; Cognitive Processing; Communications Biology; Cortex; Disability and Health Journal; eLife; Frontiers in Human Neuroscience; Human Brain Mapping; Journal of Cognitive Neuroscience; Journal of Experimental Psychology: Learning, Memory, and Cognition; Journal of Memory and Language; Journal of Neurolinguistics; Journal of Neuroscience; Journal of Psycholinguistic Research; Journal of Speech, Language, and Hearing Research; Language and Cognitive Processes; Language, Cognition and Neuroscience; Nature Human Behavior; Neurobiology of Language; Neurocase; NeuroImage; Neuromodulation: Technology at the Neural Interface; Neuropsychologia; Neuropsychological Rehabilitation; Phonology; PLOS Digital

Health; PLOS One; Poznan Studies in Contemporary Linguistics; Psychological Review; Restorative Neurology and Neuroscience.

2010 – now

Grant Reviewer:

Alexander von Humboldt Foundation; National Science Foundation; Health Research Council of New Zealand; South Carolina Clinical and Translational Research Institute; The Dunhill Medical Trust (UK); City University of New York internal Collaborative Grants; Stroke Association (UK); Research Grants Council of Hong Kong (China); National Institutes of Health, Language and Communication (member conflict substitute - LCOM). NIH/National Institute of General Medical Sciences - SCORE, Swiss National Science Foundation.

PROFESSIONAL MEMBERSHIPS

Academy of Aphasia

American Speech and Hearing Association

Society for the Neurobiology of Language

Associate Faculty of the USC Walker Institute of International and Area Studies

Collaboration of Aphasia Trialists, Working group 3: Predictors and Markers of Aphasia Recovery

FURTHER ACTIVITIES

ADMINISTRATIVE

- 2004 – 2005 Secretary of the Board of the University Theatre Groningen
- 2004 – 2005 Vice Chair (2004) and Chair (2005) of the *Partij van de Arbeid* (Labor Party) in the province of Groningen, The Netherlands
- 2013 Co-organizer CUNY conference on sentence processing, USC, March 2013
- 2012 – 2015 Faculty Senate, USC
- 2015 Co-organizer Workshop *Neural Plasticity and Learning*, USC, October 2015
- 2015 – 2018 USC Graduate Council, Vice Chair (2016), Chair (2017)
- 2015 – 2016 USC Graduate School Fellowships and Scholarships Committee
- 2016 – 2017 USC Graduate School Academic Policies and Practices Committee (Chair)
- 2016 – 2017 Program Committee, Clinical Aphasiology Conference 2017
- 2016 – now Organizer online lecture series and workshops for C-STAR (Center for the Study of Aphasia Recovery, USC): <https://cstar.sc.edu/lecture-series/>
- 2018 – 2019 Program Committee, Clinical Aphasiology Conference 2019
- 2019 – 2021 Program Committee, Academy of Aphasia, Vice Chair (2020), Chair (2021)
- 2020 – 2021 Fostering Quality of Spoken Discourse in Aphasia (FOQUSAphasia) Steering Group; Best Practices working group.
- 2020, 2025 ASHA Pathways Mentor (American Speech-Language-Hearing Association)
- 2022 – 2023 Program Committee, Clinical Aphasiology Conference 2023
- 2022 – now Executive Committee, Institute for Mind and Brain, USC
- 2024 Co-organizer Workshop *Reading and the Brain*, USC, February 2024

MEDIA

- 2006 – 2007 Several appearances as panelist on *River West Flowing*, CAN-TV, Chicago (speaking about aphasia and neurolinguistics)

MUSIC/DRAMA

- 1986 – now Singer/songwriter with several popbands, a.o. *FIASCO* (CD: Sporen, 1996), *Nanninga* (CD: Nanninga, 2000)
- 1989 – 1999 Actor with several theatre groups (Groningen, NL, and London, UK)
- 2000 Director of Theatre Group *Tante Evert*
- 2018 – now Founder and Co-director of *Play on Words: An Aphasic Drama Group* (USC)

SPORTS

- 2007 – 2012 Youth recreational soccer coach (ages 6-10), American Youth Soccer Organization (AYSO) Evanston, IL; South Carolina United FC.
- 2015 – now Certified instructor for Basic Keelboat Sailing (ASA 101), American Sailing Association.

PUBLICATIONS

^Δ = in Dutch

Student authors under my supervision are underlined.

PEER-REVIEWED JOURNAL PAPERS (70)

- Kristinsson, S, **Den Ouden, D.B.**; Rorden, C, Newman-Norlund, R., Johnson, L., Wilmskoetter, J., Gleichgerricht, E., Hillis, A., Hickok, G., Fridriksson, J., Bonilha, L., (in press) Partial Least Squares Multimodal Analysis of Brain Network Correlates of Language in Aphasia. *Brain Communications*.
- Tilwani, D., O'Reilly, C., Riccardi, N., Shalin, V. L., **Den Ouden, D.-B.**, Fridriksson, J., Shinkareva, S. V., Sheth, A. P., & Desai, R. H. (2025). Benchmarking machine learning models in lesion-symptom mapping for predicting language outcomes in stroke survivors [Original Research]. *Frontiers in Neuroimaging, Volume 4 - 2025*. <https://doi.org/10.3389/fnimg.2025.1573816>
- Hammond, L., Fridriksson, J., & **Den Ouden, D.B.** (in press) Assessing functional communication in persons with aphasia: A scoping review of formal and informal measures. *International Journal of Language & Communication Disorders*, 60 (3), p. e70051.
- Rangus, I., Busby, N., Teghipco, A., Roth, R. W., Wilmskoetter, J., Rorden, C., Hillis, A. E., **Den Ouden, D.B.**, Newman-Norlund, R., Fridriksson, J., & Bonilha, L. (2025) Impact of White Matter Hyperintensities on Nonverbal Cognition Through Structural Disconnections in Poststroke Aphasia. *Stroke*, 0(0). <https://doi.org/doi:10.1161/STROKEAHA.124.049058>
- Matchin, W., Mollasaraei, Z. K., Bonilha, L., Rorden, C., Hickok, G., **Den Ouden, D.B.**, & Fridriksson, J. (2024). Verbal working memory and syntactic comprehension segregate into the dorsal and ventral streams, respectively. *Brain Communications*. <https://doi.org/10.1093/braincomms/fcae449>
- Busby, N., * Rangus, I., * Teghipco, A., Roth, R.W., Wilmskoetter, J., Rorden, C., Hillis, A.E., **Den Ouden, D.B.**, Newman-Norlund, R., Fridriksson, J., Bonilha, L., (accepted) “White Matter Hyperintensities Contribute to Non-Verbal Cognitive Deficits in Post-Stroke Aphasia via Structural Disconnections” (*equal-contribution first authors)
- Schwenn Blackett, D., Kristinsson, S., Walker, G., Sayers, S., Gibson, M., Wilmskoetter, J., **Den Ouden, D. B.**, Fridriksson, J., & Bonilha, L. (2025). A comparison of item acquisition and response generalization for semantic versus phonological treatment of aphasia. *Journal of Speech, Language, and Hearing Research*, 68(4), 1821-1836.
- Cassarly, C., Basilakos, A.A., Johnson, L., Wilmskoetter, J., Elm, J., Hillis, A.E., Bonilha, L., Rorden, C., Hickok, G., **Den Ouden, D.B.***, Fridriksson, J., * (2024) “TEleRehabilitation for Aphasia (TERRA) Phase II Trial Design” (*equal-contribution senior authors). *Contemporary Clinical Trials Communications*, 42, 101406. <https://doi.org/10.1016/j.conctc.2024.101406>

- Gibson, M., , Newman-Norlund, R., Bonilha, L., Fridriksson, J., Hickok, G., Hillis, A., **Den Ouden, D.B** and Rorden, C. (2024) The Aphasia Recovery Cohort, an open-source chronic stroke repository. *Scientific Data*, 11(1), 981.
- Riccardi, N., Blackett, D. S., Broadhead, A., **den Ouden, D.B.**, Rorden, C., Fridriksson, J., Bonilha, L., & Desai, R. H. (2024). A Rose by Any Other Name: Mapping Taxonomic and Thematic Naming Errors Poststroke. *Journal of Cognitive Neuroscience*, 36(10), 2251-2267.
- Harrington, R. M., Kristinsson, S., Wilmskoetter, J., Busby, N., **den Ouden, D.**, Rorden, C., Fridriksson, J., & Bonilha, L. (2024). Dissociating reading and auditory comprehension in persons with aphasia. *Brain Commun*, 6(2), fcae102.
- Lewis, A. F., Bohnenkamp, R., Myers, M., **Den Ouden, D. B.**, Fritz, S. L., & Stewart, J. C. (2024). Effect of positive social comparative feedback on the resting state connectivity of dopaminergic neural pathways: A preliminary investigation. *Neurobiol Learn Mem*, 212, 107930.
- Riccardi, N., Nelakuditi, S., **Den Ouden, D. B.**, Rorden, C., Fridriksson, J., & Desai, R. H. (2024). Discourse- and lesion-based aphasia quotient estimation using machine learning. *NeuroImage: Clinical*, 42, 103602.
- Roth, R., Busby, N., Wilmskoetter, J., Schwen Blackett, D., Gleichgerricht, E., Johnson, L., Rorden, C., Newman-Norlund, R., Hillis, A. E., **Den Ouden, D. B.**, Fridriksson, J., & Bonilha, L. (2023). Diabetes, brain health, and treatment gains in post-stroke aphasia. *Cerebral Cortex*, 33(13), 8557-8564. <https://doi.org/10.1093/cercor/bhad140>
- Busby, N., Newman-Norlund, S., Sayers, S., Newman-Norlund, R., Wilmskoetter, J., Rorden, C., Nemati, S., Wilson, S., Riccardi, N., Roth, R., Johnson, L., **Den Ouden, D. B.**, Fridriksson, J., & Bonilha, L. (2023). Lower socioeconomic status is associated with premature brain aging. *Neurobiology of Aging*, 130, 135-140.
- Matchin, W., **Den Ouden, D.-B.**, Basilakos, A., Stark, B. C., Fridriksson, J., & Hickok, G. (2023). Grammatical Parallelism in Aphasia: A Lesion-Symptom Mapping Study. *Neurobiology of Language*, 1-25. https://doi.org/10.1162/nol_a_00117
- Den Ouden, D. B.**, & Duffy, P. (2022). "Play on Words": An analysis of a participatory play-making process with speakers with aphasia. *Aphasiology*, 38(1), 50–69. <https://doi.org/10.1080/02687038.2022.2159313>
- Kristinsson, S., Basilakos, A., **Den Ouden, D.B.**, Elm, J., Spell, L.A., Bonilha, L., Rorden, C., Hillis, A.E., Hickok, G., Johnson, L., Hetherington, N., Walker, G.M., McLain, A., & Fridriksson, J. (2023) Predicting Outcomes of Language Rehabilitation (POLAR): Prognostic factors for immediate and long-term outcomes after aphasia therapy. *Journal of Speech, Language, and Hearing Research*, 66, 3, 1068-1084.
- Lewis, A., Bohnenkamp, R., Johnson, L., **Den Ouden, D.B.**, Wilcox, S., Fritz, S.L., and Campbell Stewart, J. (2023) Effects of positive social comparative feedback on motor sequence learning and performance expectancies. *Frontiers in Psychology*. 13:1005705.
- Kristinsson, S., Busby, N., Rorden, C., Newman-Norlund, R., **Den Ouden, D.B.**, Magnúsdóttir, S., Hjaltason, H., Thors, H., Hillis, A., Kjartansson, O., Bonilha, L., and Fridriksson, J. (2022) Brain Age predicts long-term recovery in post-stroke aphasia. *Brain Communications*, 4 (5), fcac252.
- Walker, G. M., Fridriksson, J., Hillis, A. E., **Den Ouden, D. B.**, Bonilha, L., & Hickok, G. (2022). The Severity-Calibrated Aphasia Naming Test. *Am J Speech Lang Pathol*, 31(6), 2722-2740. https://doi.org/10.1044/2022_ajslp-22-00071
- Matchin, W., **Den Ouden, D.-B.**, Hickok, G., Hillis, A. E., Bonilha, L., & Fridriksson, J. (2022). Reply: The Wernicke conundrum is misinterpreted. *Brain*, 146(4), e23-e24. <https://doi.org/10.1093/brain/awac483>

- Matchin, W., den Ouden, D.-B., Hickok, G., Hillis, A. E., Bonilha, L., & Fridriksson, J. (2022). The Wernicke conundrum revisited: evidence from connectome-based lesion-symptom mapping. *Brain*, 145(11), 3916-3930. <https://doi.org/10.1093/brain/awac219>
- Den Ouden, D.B.** & **Zhu, M.W.** (2022) Neuromodulation of verb-transitivity judgments. *Journal of Neurolinguistics*, 63, 101088. <https://doi.org/10.1016/j.jneuroling.2022.101088>
- Kristinsson, S., **Den Ouden, D.B.**, Rorden, C., Newman-Norlund, R., Neils-Strunjas, J., and Fridriksson, J. (2022) Predictors of Therapy Response in Chronic Aphasia: Building a Foundation for Personalized Aphasia Therapy. *Journal of Stroke*, 24(2), 189-206. <https://doi.org/10.5853/jos.2022.01102>
- Stark, B., Bryant, L., Themistocleous, C., **Den Ouden, D.B.**, & Roberts, A. (2022) Best Practice Guidelines for Reporting Spoken Discourse in Aphasia and Neurogenic Communication Disorders. *Aphasiology*. 1-24. <https://doi.org/10.1080/02687038.2022.2039372>
- Matchin, W., Basilakos, A., **Den Ouden, D.B.**, Stark, B.C., Hickok, G., and Fridriksson, J. (2022) Functional differentiation in the language network revealed by lesion-symptom mapping. *NeuroImage*, 247, 118778. <https://doi.org/10.1016/j.neuroimage.2021.118778>
- Gleichgerricht, E., Fridriksson, J., DelGaizo, J., **Den Ouden, D.B.**, Hickok, G., Rorden, C., Wilmskoetter, J., Hillis, A.E., Bonilha, L. (2021) Neural bases of elements of syntax during speech production. *Brain and Language*, 222, 105025. <https://doi.org/10.1016/j.bandl.2021.105025>
- Kristinsson, S., Basilakos, A., Elm, J., Spell, L. A., Bonilha, L., Rorden, C., **Den Ouden, D. B.**, Cassarly, C., Sen, S., Hillis, A., Hickok, G., & Fridriksson, J. (2021). Individualized response to semantic versus phonological aphasia therapies in stroke. *Brain Commun*, 3(3), fcab174. <https://doi.org/10.1093/braincomms/fcab174>
- Themistocleous, C., Ficek, B., Webster, K., **Den Ouden, D.B.**, Hillis, A.E., & Tsapkini, K. (2021) Automatic subtyping of individuals with Primary Progressive Aphasia. *Journal of Alzheimer's Disease*, 79(3), 1185-1194.
- Matchin, W., Basilakos, A., Stark, B.C, **Den Ouden, D.B.**, Fridriksson, J. & Hickok, G. (2020), Agrammatism and paragrammatism: a cortical double dissociation revealed by lesion-symptom mapping. *Neurobiology of Language*, 1(2), 208-225.
- Behroozmand, R., Johari, K., Bridwell, K., Hayden, C., Fahey, D. & **Den Ouden, D.B.** (2020) Modulation of vocal pitch control through high-definition transcranial direct current stimulation of the left ventral motor cortex. *Experimental Brain Research*, 238(6), 1525-1535.
- Fahey, D. & **Den Ouden, D.B.** (2020) Asymmetric binarity as a cognitive universal: The rhythm of syntactic structures. *Journal of Neurolinguistics*. 54. <https://doi.org/10.1016/j.jneuroling.2020.100889>.
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- △ **Den Ouden, D.B.** & Bastiaanse, R. (2000) Fonologische codering en afasie. *Stem-, Spraak- en Taalpathologie*, 9, 3, 175-91. (transl. *Phonological encoding and aphasia*)
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PEER-REVIEWED BOOK CHAPTERS

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- Den Ouden, D.B.** (2002) Segmental vs. syllable markedness: Deletion errors in the paraphasias of fluent and non-fluent aphasics. In: E. Fava (Ed.) *Clinical Linguistics: Theory and Applications in Speech Pathology and Therapy*. Current Issues in Linguistic Theory 227 (John Benjamins), pp. 23-45.
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- Den Ouden, D.B.** (1995) *Syllable Structure: A Comparison of Different Analyses. Part I: Child Cluster Reduction and Compensatory Lengthening; Part II: Syllable Structure in Sranan*. MA thesis, University of Groningen. (ERIC Document Reproduction Service No. ED400693).

PRESENTATIONS (since 2019; total 160+ since 1997)

2025

- Ahmadi, S., Fridriksson, J. & **Den Ouden, D.B.**, “Longitudinal Analysis of GPT-2 Layer Activation in Aphasia Recovery: An Eight-Month Patient-Level Study” (poster) *Neuroscience of the Everyday World (N.E.W.) Conference 2025*, Boston, July 28-29.
- Den Ouden, D.B.**, “Neural and Behavioral Predictors of Treatment Response in Chronic Aphasia” (invited, online) *Lunch Lecture: Research School of Behavioural and Cognitive Neurosciences (BCN)*, Groningen, The Netherlands, May 8.
- S.C. Wilson, Langley, S., Warren, K., **Den Ouden, D.B.** & Almor, A. “Transcranial Direct Current Stimulation of the Superior Parietal Cortex Modulates Reference Processing during Reading Comprehension” (poster) *38th Annual Conference on Human Sentence Processing*, University of Maryland, March 27-29.
- Salman, N., Wilson, S.C., Newman-Norlund, S., Riccardi, N., Almor, A., Bonilha, L., **Den Ouden, D.B.** “LLM-Based Surprisal Metrics as Potential Predictors of Cognitive and Mental Health” (platform) *38th Annual Conference on Human Sentence Processing*, University of Maryland, March 27-29.
- Yi, J., Yin, J., Ghosal, R., **Den Ouden, D.B.**, Fridriksson, J., Desai, D., Wang, Y. “Topological clustering of aphasic brain networks”, *39th Annual Conference on Neural Information Processing Systems, NeurIPS 2025*, San Diego, Dec. 1.

2024

- Matchin, W., Khoshhal Mollasaraei, Z., Bonilha L., Rorden, C., Hickok, G., **Den Ouden, D.B.**, & Fridriksson, J., "Lesion-symptom mapping of phonological working memory load using rhyme judgments in people with chronic post-stroke aphasia" (poster) *Clinical Aphasiology Conference 2024*, Waikoloa, HI, May 28-June 1.
- Blackwood, K., Kristinsson, S., Walker, G., Fridriksson, J., Schwen Blackett, D., **Den Ouden, D.B.**, Rorden, C., Hillis, A., Hickok, G., Sayers, S., Spell, L.A., Bonilha, L. & Wilmskoetter, J. "Naming Variability Predicts Treatment Response in People with Chronic Aphasia" (poster) *Clinical Aphasiology Conference 2024*, Waikoloa, HI, May 28-June 1.
- Den Ouden, D.B.**, Teghipco, A., Kristinsson, S., Rorden, C., Walker, G., Fridriksson, J., & Bonilha, L. "A hierarchical ensemble approach to predicting response to phonological versus semantic naming intervention in aphasia using multimodal data" (platform) *62nd Annual Meeting of the Academy of Aphasia*, Nara, Japan, October 18-20.
- Giglio, L., Fridriksson, J., & **Den Ouden, D.B.** "Characterizing verb argument structure production in discourse in chronic aphasia" (poster) *62nd Annual Meeting of the Academy of Aphasia*, Nara, Japan, October 18-20.
- Hammond, L.M., Newman-Norlund, R., Rorden, C., Lisa Norris-Johnson, **Den Ouden, D.B.**, Bonilha, L., & Fridriksson, J., "Longitudinal brain volume changes in chronic post-stroke aphasia" (poster) *62nd Annual Meeting of the Academy of Aphasia*, Nara, Japan, October 18-20.
- Den Ouden, D.B.**, Teghipco, A., Kristinsson, S., Rorden, C., Walker, G., Fridriksson, J., & Bonilha, L. "A hierarchical ensemble approach to predicting response to phonological versus semantic naming intervention in aphasia using multimodal data" (platform), *15th Annual Meeting of the Society for the Neurobiology of Language*, Brisbane, Australia, October 24-26.
- Matchin, W., **Den Ouden, D.B.**, Khoshhal Mollasaraei, Z., Fridriksson, J. "Lesion-symptom mapping of phonological working memory load using rhyme judgments in people with chronic post-stroke aphasia" (poster), *15th Annual Meeting of the Society for the Neurobiology of Language*, Brisbane, Australia, October 24-26.
- Wilmskoetter, J., Blackwood, K., Kristinsson, S., Walker, G., Fridriksson, J., Blackett, D., **Den Ouden, D.B.**, Rorden, C., Hillis, A., Hickok, G., Sayers, S., Spell, L.A. & Bonilha, L. "Naming Inconsistencies as Predictors for Treatment Outcome in People with Aphasia" (poster) *ASHA Convention 2024*, Seattle, WA, December 5-7.

2023

- Den Ouden, D.B.**, Kristinsson, S., Bonilha, L., Hickok, G., Hillis, A., Rorden, C., Stark, S. & Fridriksson, J. "Neural predictors of narrative-discourse outcomes after naming intervention in aphasia" (poster) *15th Annual Meeting of the Society for the Neurobiology of Language*, Marseille, France, October 24-26.
- Harrington, R., Kristinsson, S., Wilmskoetter, J., Busby N., **Den Ouden, D.B.**, Rorden, C., Fridriksson, J., & Bonilha, L. "Dissociating reading and auditory comprehension in persons with aphasia" (poster) *15th Annual Meeting of the Society for the Neurobiology of Language*, Marseille, France, October 24-26.
- Wilson, S.C., Langley, S., Warren, K., **Den Ouden, D.B.**, & Almor, A. "Transcranial Direct Current Stimulation of the Superior Parietal Cortex Modulates Reference Processing" (poster) *15th Annual Meeting of the Society for the Neurobiology of Language*, Marseille, France, October 24-26.
- Den Ouden, D.B.**, Kristinsson, S., Bonilha, L., Hickok, G., Hillis, A., Rorden, C., Stark, B. & Fridriksson, J., "Narrative discourse measures as predictors of response to naming intervention in aphasia" (platform), *Clinical Aphasiology Conference 2023*, Atlantic City, NJ, May 30-June 3.

Hammond, L. & Den Ouden, D.B., “Formally Assessing Functional Communication in Persons with Aphasia” (poster), *Clinical Aphasiology Conference 2023*, Atlantic City, NJ, May 30-June 3.

Diedrichs, V.A., Osher, D.E., Pan, X.J., Stark, B.C., Fridriksson, J., **Den Ouden, D.B.**, Rorden, C., Newman-Norlund, R., & Harnish S.M., “Semantics, Phonology, and Resting-State Connectivity in Aphasia” (poster), *Clinical Aphasiology Conference 2023*, Atlantic City, NJ, May 30-June 3.

Hammond, L. & Den Ouden, D.B., “Formally Assessing Functional Communication in Persons with Aphasia: A Computerized Adaptive Scenario Test” (poster) ASHA Convention 2023, Boston, MA, November 16-18.

2022

Wilson, S.C., **Den Ouden, D.B.**, Almor, A. “Effects of verb bias and repetition on syntactic priming in interactive discourse” (poster), *35th Annual Conference on Human Sentence Processing*, UC Santa Cruz, 24-26 March.

Johnson, L., Busby, N., Keator, L, **Den Ouden, D.B.**, & Fridriksson, J. “The Impact of Treatment in Chronic Aphasia Recovery” (platform), *Clinical Aphasiology Conference 2022*, Wrightsville Beach, NC, May 17-21.

Busby, N., Johnson, L., Kristinsson, S., Gibson, M., Spell, L.A., Roth, R., Gilchrist, L., Wilmskoetter, J., Bonilha, L., Rorden, C., Newman-Norlund, R., **Den Ouden, D.B.**, Hillis, A., Hickok, G., & Fridriksson, J. “Health Factors Associated with Naming Improvement in Chronic Aphasia” (poster) *Clinical Aphasiology Conference 2022*, Wrightsville Beach, NC, May 17-21.

Den Ouden, D.B., Matchin, W., Hickok, G., & Fridriksson, J. “Lesion site predictors of syntactic deficits in aphasia” (poster) *14th Annual Meeting of the Society for the Neurobiology of Language*, Philadelphia, PA, October 6-8.

Kristinsson, S., Busby, N., Rorden, C., Newman-Norlund, R., **Den Ouden, D.B.**, Magnúsdóttir, S., Thors, H., Hillis, A.E., Bonilha, L., & Fridriksson, J. “Brain Age Predicts Long-Term Recovery in Post-Stroke Aphasia” (poster) *14th Annual Meeting of the Society for the Neurobiology of Language*, Philadelphia, PA, October 6-8.

Roth, R., Busby, N., Wilmskoetter, J., Blackett, D., Gleichgerricht, E., Rorden, C., Newman-Norlund, R., Hillis, A.E., **Den Ouden, D.B.**, Fridriksson, J., & Bonilha, L. “Diabetes, Brain Health, and Long-Term Language Related-Treatment Gains in Post-Stroke Aphasia” (poster) *14th Annual Meeting of the Society for the Neurobiology of Language*, Philadelphia, PA, October 6-8.

Kristinsson, S., Rorden, C., Newman-Norlund, R., **Den Ouden, D.B.**, Hillis, A.E., Hickok, G., Bonilha, L., & Fridriksson, J. “Systems Supporting Clinically Salient Language Deficits” (poster) *14th Annual Meeting of the Society for the Neurobiology of Language*, Philadelphia, PA, October 6-8.

Matchin, W., **Den Ouden, D.B.**, Hickok, G., Hillis, A.E., Bonilha, L., & Fridriksson, J. “The Wernicke conundrum revisited: evidence from connectome-based lesion-symptom mapping” (poster) *14th Annual Meeting of the Society for the Neurobiology of Language*, Philadelphia, PA, October 6-8.

Den Ouden, D.B., Matchin, W., & Fridriksson, J. “Syntactic test performance across aphasia types” (poster) *60th Annual Meeting of the Academy of Aphasia*, Philadelphia, PA, October 23-25, 2022.

Matchin, W., **Den Ouden, D.B.**, Hickok, G., Hillis, A., Bonilha, L., & Fridriksson, J. “The Wernicke conundrum revisited: evidence from connectome-based lesion-symptom mapping” (poster), *60th Annual Meeting of the Academy of Aphasia*, Philadelphia, PA, October 23-25, 2022.

Kristinsson S., Busby, N., Rorden, C., Newman-Norlund, R., **Den Ouden, D.B.**, Magnúsdóttir, S., Thors, H., Hillis, A.E., Bonilha, L., & Fridriksson, J. “Brain Age Predicts Long-Term Recovery in Post-Stroke Aphasia” (poster), *60th Annual Meeting of the Academy of Aphasia*, Philadelphia, PA, October 23-25, 2022.

Lewis, A.F., Bohnenkamp, R., Myers, M., **Den Ouden, D.B.**, Fritz, S., & Stewart, J.C. "Effect of positive social comparative feedback on resting state connectivity of dopaminergic neural pathways: a preliminary investigation" (poster) *Neuroscience 2022*, San Diego, CA, November 12-16.

2021

- Kristinsson, S., Zgodic, A., **Den Ouden, D.B.**, Rorden, C., Hillis, A., Bonilha, L., Hickok, G., McLain, A. & Fridriksson, J. "Functional Cortical Reorganization Supporting Therapy-Induced Language Recovery in Chronic Aphasia: A Large-Scale Clinical Trial" (poster) *13th Annual Meeting of the Society for the Neurobiology of Language*, Virtual, October 5-8.
- Matchin, W., Basilakos, A., Stark, B.C., **Den Ouden, D.B.**, Fridriksson, J. & Hickok, G. "Grammatical parallelism in aphasia revisited: a common lesion substrate for syntactic production and comprehension deficits in the posterior temporal lobe (poster) *13th Annual Meeting of the Society for the Neurobiology of Language*, Virtual, October 5-8.
- Matchin, W., Basilakos, A.A., Stark, B., **Den Ouden, D.B.**, Fridriksson, J. & Hickok, G. "Grammatical parallelism in aphasia revisited: a common lesion substrate for syntactic production and comprehension deficits in the posterior temporal lobe", *59th Annual Meeting of the Academy of Aphasia*, Virtual, USA, October 24-26.
- Bryant, L., Roberts, A., Themistocleous, C., **Den Ouden, D.B.** & Stark, B. "Best practices for reporting of discourse analysis" *59th Annual Meeting of the Academy of Aphasia*, Virtual, USA, October 24-26.
- Busby, N., **Den Ouden, D.B.**, Rorden, C., Spell, L.A. & Fridriksson, J. "Identifying Phonological Planning Deficits Independent of Apraxia of Speech" (poster) *59th Annual Meeting of the Academy of Aphasia*, Virtual, USA, October 24-26.
- Johnson, L., Wilson, S., Yourganov, G., Newman-Norlund, R., Stark, B.C., Basilakos, A., Rorden, C., **Den Ouden, D.B.**, and Fridriksson, J. "Neural Synchrony is Associated with Language Perception in Listeners with Aphasia" (poster) *Organization for Human Brain Mapping (OHBM)*, Virtual, June 21-25.

2020

- Den Ouden, D.B.** & Duffy, P. "Drama by speakers with aphasia: Awareness and life satisfaction" (poster) *58th Annual Meeting of the Academy of Aphasia*, Virtual, China, October 18-20.
- Den Ouden, D.B.** & Zhu, M.W. "Neuromodulation of verb-transitivity judgments" (poster) *12th Annual Meeting of the Society for the Neurobiology of Language*, Virtual, October 21-24.
- Kristinsson, S., Basilakos, A.A., Elm, J., Spell, L.A., Bonilha, L., Rorden, R., **Den Ouden, D.B.**, Cassarly, C., Sen, S., Hillis, A., Hickok, G. & Fridriksson, F. "Individualized Response to Different Types of Aphasia Rehabilitation in Stroke" (poster) *12th Annual Meeting of the Society for the Neurobiology of Language*, Virtual, October 21-24.
- Matchin, W., Basilakos, A.A., **Den Ouden, D.B.**, Stark, B.C., Hickok, G. & Fridriksson, J. "Neuroanatomical dissociations of syntax and semantics revealed by lesion-symptom mapping" (poster) *12th Annual Meeting of the Society for the Neurobiology of Language*, Virtual, October 21-24.

2019

- Matchin, W., Basilakos, A., Stark, B.C., **Den Ouden, D.B.**, Fridriksson, J. & Hickok, G. "Paragrammatism, agrammatism and the cortical organization of syntax: a lesion-symptom mapping study" (poster), *11th Annual Meeting of the Society for the Neurobiology of Language*, Helsinki, Finland, August 20-22.
- Matchin, W., Basilakos, A., Stark, B.C., **Den Ouden, D.B.***, Fridriksson, J. & Hickok, G. "Paragrammatism and agrammatism: a cortical double dissociation revealed by lesion-symptom mapping"

CV Dirk-Bart den Ouden

(platform), *57th Annual Meeting of the Academy of Aphasia*, Macau, SAR China, October 27-29.

*Presenter

Den Ouden, D.B., Del Valle, G., Altpeter, H. & Galkina, E., "Vowel formant dispersion in apraxia of speech and aphasia: Repeated elicitation versus spontaneous speech" (poster), *57th Annual Meeting of the Academy of Aphasia*, Macau, SAR China, October 27-29.

Den Ouden, D.B., Stark, B., & Fridriksson, F., "Lesion-symptom mapping of verbs and morphosyntax in picture descriptions" (poster), *Clinical Aphasiology Conference 2019*, Whitefish, MT, May 29-June 1.