

GIULIO G.A. SEVERIJNEN, PHD

Postdoctoral researcher

Basque Center on Cognition, Brain and Language ◊ Donostia/San Sebastián, Spain

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EMPLOYMENT

- Postdoctoral researcher** 2026-current
Basque Center on Brain, Cognition and Language, Donostia/San Sebastián, Spain
PI: Dr. Efthymia Kapnoula
Topics: Perceptual learning; Speech perception gradiency; Cognitive load and pupillometry
- Postdoctoral researcher** 2024-2026
International School for Advanced Studies (SISSA) & Università di Pavia, Italy
PI: Prof. Davide Crepaldi
Topics: Neural substrates of statistical learning and reading

EDUCATION

- Ph.D., Psycholinguistics (cum laude)** 2020-2024
Thesis title: A blessing in disguise: How prosodic variability challenges but also aids successful speech perception
Promotor: Prof. James M. McQueen
Co-promotors: Dr. Hans Rutger Bosker & Dr. Ashley G. Lewis
- MSc Cognitive Neuroscience (cum laude)** 2018-2020
Thesis title: The role of talker-specific prosody in predictive speech perception
Supervisors: Dr. Hans Rutger Bosker, Dr. Vitoria Piai, & Prof. James M. McQueen
- BSc Psychology** 2013-2017
Thesis title: Incidental learning of a new language: The influence of attention and multilingualism
Supervisors: Prof. Kristin M. Lemhöfer

RESEARCH EXPERIENCE

- Research Internship** 2019
Donders Institute for Brain, Cognition, and Behaviour, Nijmegen, The Netherlands
PI: Prof. Ton Dijkstra
Topic: Computational modeling of multilingual speech perception
- Student assistant** 2018-2020
Donders Institute for Brain, Cognition, and Behaviour, Nijmegen, The Netherlands
PI: Prof. Ton Dijkstra
Topic: Several topics within multilingual language processing such as idiomatic second language acquisition and processing of cognates in bilinguals.
- Research Internship** 2018
Centre for Language studies & Donders Institute for Brain, Cognition, and Behaviour, Nijmegen, The Netherlands
PI: Prof. Mirjam.E. Broersma & Prof. James.M. McQueen
Topic: Error-based phonological learning
- Research Internship** 2018
Centre for Language studies, Nijmegen, The Netherlands
PI: Dr. Laura Speed & Prof. Asifa. Majid
Topic: The role of language in cross-modal odor-color associations
- Research Internship** 2017-2018
Donders Institute for Brain, Cognition, and Behaviour, Nijmegen, The Netherlands
PI: Prof. Kristin M. Lemhöfer
Topic: Second language attrition

Published articles

- [1] **Severijnen, G. G. A.**, Bosker, H. R., McQueen, J. M., (2025). Is rate-dependent perception affected by linguistic information about the intended syllable rate? *Psychonomic Bulletin & Review*. <https://doi.org/10.3758/s13423-025-02746-x>
- [2] Henry, M. J., Obleser, J., Crusey, M. R., Fuller, E. R., Lee, Y. S., Meyer, M., Acosta, E. A. M., Van Hedger, S. C., Inbar, M., Oderbolz, C., Dunham, S. A., Anankul, Y., Sabo, L. E., Keitel, C., Maddox, R. K., Mehl, K., Aslan, G., Martens, P. A., Sauppe, S., Horovitz, M., Kinghorn, E. E., Koukouvini, S., Bosker, H. R., Huviyetli, M., Leung, C., Symons, A. E., Strauß, A., Chait, M., Hu, M., Eulitz, C., Salagovic, C. A., Davis, C., **Severijnen, G. G. A.**, Kosachenko, A. I., Alain, C., Kim, J., Grahm, J. A., Sidhu, R. K., Megighian, C., Butler, B. E., Sears, D. R. W., Herrmann, B., Griffiths, M. L., Landau, A. N., Razin, R., Grassi, M., Levitsky, A., Holt, L. L., Belfi, A. M., Stewart, H. J., Shinn-Cunningham, B. G., Gomez, C., Brookes, F., Smith, E. D., Axler, E., Bakardjian, K., Hochstrasser, D., Guioetto Nai Fovino, L., Tune, S., Pavlov, Y. G., Lee, K. A., Xavier, A. G., Keitel, A., Rogers, C. S., Maltseva, A., Strauss, J. L., Lodol, F. F., Arsiwala, N., Pelle, J. E., (2025). How strong is the rhythm of perception? A registered replication of Hickok *et al.* (2015). *Royal Society Open Science*, 12(6), 220497. <https://doi.org/10.1098/rsos.220497>
- [3] **Severijnen, G. G. A.**, (2025). *A blessing in disguise: How prosodic variability challenges but also aids succesful speech perception* [Doctoral dissertation, Radboud University Nijmegen]. <https://repository.ubn.ru.nl/handle/2066/315703>
- [4] **Severijnen, G. G. A.**, Gärtner, V. M., Walther, R. F., McQueen, J. M., (2024). Talker-specific perceptual learning about lexical stress: Stability over time. *Speech Prosody* 2024, 657–661. <https://doi.org/10.21437/SpeechProsody.2024-133>
- [5] **Severijnen, G. G. A.**, Bosker, H. R., McQueen, J. M., (2024). Your “VOORnaam” is not my “VOORnaam”: An acoustic analysis of individual talker differences in word stress in Dutch. *Journal of Phonetics*, 103, 101296. <https://doi.org/10.1016/j.wocn.2024.101296>
- [6] **Severijnen, G. G. A.**, Bosker, H. R., McQueen, J. M., (2023). Syllable rate drives rate normalization, but is not the only factor. In R. Skarnitzl & J. Violín (Eds.), *Proceedings of the 20th International Congress of the Phonetic Sciences (ICPhS 2023)* (pp. 32–36).
- [7] **Severijnen, G. G. A.**, Di Dona, G., Bosker, H. R., McQueen, J. M., (2023). Tracking talker-specific cues to lexical stress: Evidence from perceptual learning. *Journal of Experimental Psychology: Human Perception and Performance*, 49(4), 549–565. <https://doi.org/10.1037/xhp0001105>
- [8] **Severijnen, G.**, Bosker, H. R., McQueen, J., (2022). Acoustic correlates of Dutch lexical stress re-examined: Spectral tilt is not always more reliable than intensity. In S. Frota, M. Cruz, & M. Vigário (Eds.), *Proceedings of Speech Prosody 2022* (pp. 278–282). <https://doi.org/10.21437/SpeechProsody.2022-57>
- [9] Muntendam, A., Van Rijswijk, R., **Severijnen, G.**, Dijkstra, T., (2022). The role of stress position in bilingual auditory word recognition: Cognate processing in Turkish and Dutch. *Bilingualism: Language and Cognition*, 25(4), 679–690. <https://doi.org/10.1017/S1366728922000037>
- [10] **Severijnen, G. G. A.**, Bosker, H. R., Piai, V., McQueen, J. M., (2021). Listeners track talker-specific prosody to deal with talker-variability. *Brain Research*, 1769. <https://doi.org/10.1016/j.brainres.2021.147605>

Preprints

- [1] **Severijnen, G. G. A.**, Crepaldi, D., (2026). A unified mechanism for statistical learning? Evidence from multimodal integration during learning. *PsyArXiv Preprints*. <https://doi.org/10.31234/osf.io/qwbup-v1>

TALKS AND PRESENTATIONS

Invited talks

- [1] **Severijnen, G. G. A.**, (2026). *Turning REcord into reCORD: Talker-specific perceptual learning about lexical stress* (Invited talk). Invited talk at WASPER workshop, Nijmegen, The Netherlands.
- [2] **Severijnen, G. G. A.**, (2026). *A blessing in disguise: How prosodic variability challenges but also aids succesful speech perception* (Invited talk). Invited talk at de Grote Taaldag, Utrecht, The Netherlands.

- [3] **Severijnen, G. G. A.**, (2025). *From INsight to in SIGHT: Understanding prosodic adaptation in speech perception* (Invited talk). Invited talk at the Faculty of Humanities, Leiden University, The Netherlands.
- [4] **Severijnen, G. G. A.**, (2024). *Prosodic variability, friend or foe?* (Invited talk). Invited talk at MPI for Psycholinguistics, Nijmegen, The Netherlands.
- [5] **Severijnen, G. G. A.**, (2024). *Prosodic variability not only challenges, but also contributes to successful speech perception.* (Invited talk). Invited talk at the Department of Linguistics, Potsdam.
- [6] **Severijnen, G. G. A.**, Di Dona, G., (2021). *Listeners deal with prosodic talker variability through perceptual learning* (Invited talk). Invited talk at the Online meeting, University of Rochester.

Conference presentations and posters (** indicates student presentation)

- [1] **Stamenkovic, D., Zhou, H., **Severijnen, G. G. A.**, Lippi, E., Bogaerts, L., Crepaldi, D., (2026). *Individual Differences in Reflection-Based and Processing-Based Statistical Learning across Modalities*. Presentation at XXXII Conference of the Italian Association of Psychology – Experimental Section, Venezia, Italy.
- [2] **Severijnen, G. G. A.**, Crepaldi, D., (2026). *A unified mechanism of statistical learning? Evidence from cross-modal integration during learning* (Poster). Poster at international Advances in Statistical Learning, Donostia-San Sebastián, Spain.
- [3] **Severijnen, G. G. A.**, Crepaldi, D., (2025). *A unified mechanism of statistical learning? Evidence from cross-modal integration during learning* (Poster). Poster at the NVP Winter conference 2025, Egmond aan Zee, The Netherlands.
- [4] **Severijnen, G. G. A.**, Crepaldi, D., (2025). *A unified mechanism of statistical learning? Evidence from cross-modal integration during learning* (Oral presentation). Presentation at the 24th biennial conference of the European Society for Cognitive Psychology (ESCOP 2025), Sheffield, UK.
- [5] **Kapp, S., **Severijnen, G. G. A.**, Hanulíková, Bosker, H. R., (2024). *Within speaker rate variability limits habitual speech rate tracking*. Presentation at the 187th meeting of the Acoustical Society of America, Virtual meeting.
- [6] **Severijnen, G. G. A.**, Gärtner, V., Walther, R., McQueen, J. M., (2024). *Perceptual learning about lexical stress: Stability over time* (Oral presentation). Presentation at the 12th international conference on Speech Prosody (Speech Prosody 2024), Leiden, The Netherlands.
- [7] **Severijnen, G. G. A.**, Bosker, H. R., McQueen, J. M., (2023). *Listeners prioritize acoustic information over orthographic information in rate normalization* (Poster). Poster at Architectures and Mechanisms for Language Processing (AMLaP) 2023, Donostia-San Sebastián, Spain.
- [8] **Severijnen, G. G. A.**, Bosker, H. R., McQueen, J. M., (2023). *Syllable rate drives rate normalization, but is not the only factor* (Poster). Poster at the 20th International Congress of the Phonetic Sciences (ICPhS 2023), Prague, Czech Republic.
- [9] **Severijnen, G. G. A.**, Bosker, H. R., McQueen, J. M., (2023). *Individual differences in lexical stress in Dutch: An examination of cue weighting in production* (Oral presentation). Presentation at Phonetics and Phonology in Europe 2023 (PaPe 2023), Nijmegen, The Netherlands.
- [10] **Severijnen, G. G. A.**, Bosker, H. R., McQueen, J. M., (2022). *How do “VOORnaam” and “voorNAAM” differ between talkers? A corpus analysis of individual talker differences in lexical stress in Dutch* (Poster). Poster at the 18th conference on Laboratory Phonology (LabPhon18), Virtual meeting.
- [11] **Severijnen, G. G. A.**, Bosker, H. R., McQueen, J. M., (2022). *Acoustic correlates of Dutch lexical stress re-examined: Spectral tilt is not always more reliable than intensity* (Oral presentation). Presentation at the 11th international conference on Speech Prosody (Speech Prosody 2022), Lisbon, Portugal.
- [12] **Severijnen, G. G. A.**, Bosker, H. R., McQueen, J. M., (2021). *Jouw “voornaam” is niet mijn “voornaam”: An acoustic analysis of individual talker differences in producing lexical stress in Dutch* (Oral presentation). Presentation at the Dag van de Fonetiek 2021, Virtual meeting.
- [13] **Severijnen, G. G. A.**, Bosker, H. R., McQueen, J. M., (2021). *Listeners deal with prosodic talker variability through perceptual learning* (Poster). Poster at the 62nd Annual Meeting of the Psychonomic Society, Virtual meeting.
- [14] **Severijnen, G. G. A.**, Bosker, H. R., Piai, V., McQueen, J. M., (2020). *The role of talker-specific prosody in predictive speech perception* (Oral presentation). Presentation at the Dag van de Fonetiek 2020, Virtual meeting.

- [15] **Severijnen, G. G. A.**, Bosker, H. R., Piai, V., McQueen, J. M., (2020). *The role of talker-specific prosody in predictive speech perception* (Poster). Poster at the 26th Architectures and Mechanisms for Language Processing Conference (AMLaP 2020), Virtual meeting.

GRANTS AND RECOGNITION

NWO Rubicon grant	2026-2028
<i>Title: The cognitive machinery behind segmental and prosodic perceptual learning</i>	
<i>Funding Agency: Dutch Research Council (NWO)</i>	
<i>Funding: €152.604</i>	
<i>PI: Dr. Giulio G.A. Severijnen; Co-PI: Dr. Efthymia Kapnoula & Prof. Arthur G. Samuel</i>	
Marie Skłodowska-Curie Actions Seal of Excellence	2026
<i>European Union</i>	
Nomination Anéla/AVT PhD Dissertation Prize	2026
<i>Top 3 best dissertations 2025</i>	
<i>Anéla/Algemene Vereniging voor Taalwetenschap</i>	
Nomination NVP thesis award	2025
<i>Top 5 best dissertations 2024-2025</i>	
<i>Dutch Society for Brain and Cognition (NVP)</i>	

TEACHING EXPERIENCE

Teacher Multilingualism, Cognition, and Neuroscience	2026-2027
<i>Master in Cognitive Neuroscience of Language, University of the Basque Country & Basque Center on Cognition, Brain, and Language</i>	
Supervisor BSc intern	2026
<i>Basque Center on Cognition, Brain, and Language</i>	
Co-advisor PhD student project	2025-2026
<i>Università di Pavia</i>	
Co-supervisor MSc Erasmus+ student	2025-2026
<i>International School for Advanced Studies & Donders Institute for Brain, Cognition, and Behaviour</i>	
Co-supervisor MSc student	2024-2025
<i>Radboud University Nijmegen</i>	
Obtained university teaching qualification (BKO)	2023
<i>Radboud University Nijmegen</i>	
Co-supervisor of BSc Honours students	2022-2023
<i>Radboud University Nijmegen</i>	
Lecturer Research Methods and Project	2022-2023
<i>Bachelor Linguistics, Radboud University Nijmegen</i>	
Seminar teacher Phonetics	2021-2023
<i>Bachelor Linguistics, Radboud University Nijmegen</i>	
Seminar teacher Introduction to Psychology	2020-2023
<i>Bachelor Psychology, Radboud University Nijmegen</i>	
Seminar teacher Introduction to Brain and Cognition	2021-2023
<i>Bachelor Psychology, Radboud University Nijmegen</i>	
Co-supervisor MSc student	2026-2027
<i>Radboud University Nijmegen</i>	

COURSES AND WORKSHOPS

Summer school on Advanced Bayesian Statistics <i>Statistical Methods for Linguistics and Psychology, University of Potsdam, Germany</i>	2025
Courses on teaching and supervision in higher education <i>Radboud University Nijmegen</i>	2021-2023
Advanced MEG/EEG toolkit <i>Donders Institute for Brain, Cognition, and Behaviour, Nijmegen</i>	2022
Courses on presentation and illustration skills <i>Radboud University Nijmegen</i>	2021-2022
Course on open science <i>Radboud University Nijmegen</i>	2021
Course on scientific writing <i>Radboud University Nijmegen</i>	2021
Course on project management <i>Radboud University Nijmegen</i>	2021

ACADEMIC SERVICE AND OUTREACH

CONFERENCE ORGANIZATION

Junior organization committee GESPIN conference <i>Max Planck Institute for Psycholinguistics, Nijmegen</i>	2022-2023
Conference organization committee IMPRS conference <i>Max Planck Institute for Psycholinguistics, Nijmegen</i>	2022

AD-HOC REVIEWER ACTIVITY

Journal reviewer (in square brackets the number of reviewed papers) <i>Behaviour Research Methods [1]; Journal of Experimental Psychology: Learning, Memory, and Cognition [2]; Language and Linguistic Compass [1], Language and Speech [1], Nature Communications [1], Psychonomic Bulletin & Review [1]; Psychological Research [1], The Journal of the Acoustical Society of America [3]</i>	2020-present
Conference submission reviewer <i>GeSPiN 2023, CogSci 2024, CogSci 2025, CogSci 2026</i>	2022-present

OUTREACH, INSTITUTIONAL INVOLVEMENT, AND MEDIA COVERAGE

Interview for RTL Nieuws <i>https://www.rtl.nl/nieuws/artikel/5649278/odido-stem-herkennen-zonder-zijn-gezicht-te-zien-hoe-moeilijk-dat</i>	2026
Interview Max Planck Institute for Psycholinguistics <i>https://www.mpi.nl/blog/what-having-unique-voice-means-speech-perception</i>	2026
Trieste Next <i>Trieste, Italy</i>	2025
SISSA for Schools <i>SISSA, Trieste, Italy</i>	2024
Lab committee member <i>Donders Institute for Brain, Cognition, and Behaviour, Nijmegen</i>	2020-2024
Lab support <i>Donders Institute for Brain, Cognition, and Behaviour, Nijmegen</i>	2020-2021

MAJOR COLLABORATIONS

Prof. James McQueen, Dr. Hans Rutger Bosker, Donders Institute for Brain, Cognition, and Behaviour.
Prof. Yiya Chen, Leiden University. Topics: Talker-specific perceptual learning about lexical stress; Cognitive resources required for perceptual learning

Prof. Davide Crepaldi, Università di Pavia; **Dr. Linda Drijvers**, Donders Institute for Brain, Cognition, and Behaviour; **Dr. Noam Siegelman**, Hebrew University of Jerusalem, **Dr. Amy Finn**, University of Toronto; **Dr. Louisa Bogaerts**, Ghent University. Topics: Neurocognitive mechanisms of statistical learning; individual differences in statistical learning

Dr. Efthymia Kapnoula, Basque Center on Brain, Cognition and Language. Topics: Perceptual learning; Speech perception gradiency; Cognitive resources and pupillometry

Prof. Roberto Bottini, Dr. Federica Sigismondi, Dr. Giuliano Giari, CiMeC, University of Trento;
Dr. Yamil Vidal, Donders Institute for Brain, Cognition, and Behaviour. Topics: Neural substrates of reading

SKILLS

Research methods

In-house and online behavioural experiments (speech perception and speech production), EEG, MEG, fMRI

Experiment programming

Neurobs Presentation, Python/Psychopy, Psychtoolbox, Gorilla, JsPsych

Data analysis

R, MATLAB, Fieldtrip toolbox, BrainVision Analyzer, SPM

Speech editing

Praat, Audacity

REFERENCES

Available on request