

Giulio Severijnen, PhD

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 <https://giuliosever.github.io>

 Giulio Severijnen

Employment

- 2024 – current  **Postdoctoral researcher**, International School for Advanced Studies (SISSA), Trieste & University of Pavia, Italy
PI: Prof. Dr. Davide Crepaldi
Topics: Statistical learning; Neural substrates of reading

Education

- 2020 – 2024  **Ph.D., Psycholinguistics (cum laude)**, Donders Institute for Brain, Cognition, and Behaviour, Radboud University Nijmegen, The Netherlands
Thesis title: *A blessing in disguise: How prosodic variability challenges but also aids successful speech perception*
Promotor: Prof. Dr. J.M McQueen, Supervisors: Dr. H.R. Bosker & Dr. A.G. Lewis
- 2018 – 2020  **M.Sc. Cognitive Neuroscience (cum laude)**, Radboud University Nijmegen, The Netherlands
Thesis title: *The role of talker-specific prosody in predictive speech perception*
Supervised by: Dr. H.R. Bosker, Dr. V. Piai, & Prof. Dr. J.M. McQueen
- 2013 – 2017  **B.Sc. Psychology**, Radboud University Nijmegen, The Netherlands
Thesis title: *Incidental learning of a new language: The influence of attention and multilingualism*
Supervised by: Prof. Dr. K.M. Lemhöfer

Academic Experience

- 2019 – 2020  **Research intern**, Donders Institute for Brain, Cognition, and Behaviour & Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands
Topics: Perceptual learning; Speech perception; EEG
Supervisors: Dr. H.R. Bosker, Dr. V. Piai, & Prof. Dr. J.M. McQueen
- 2018 – 2020  **Student Assistant**, Donders Institute for Brain, Cognition, and Behaviour, Nijmegen, The Netherlands
Topics: Multilingualism; Idiomatic L2 processing; Computational modeling of multilingual speech processing
Supervised by: Prof. Dr. A.F.J. Dijkstra
- 2018 – 2019  **Research intern**, Radboud University Nijmegen, The Netherlands
Topics: Error-based phonological learning; cross-language odor-color associations
Supervised by: Dr. M.E. Broersma; Dr. Laura Speed
- 2017 – 2018  **Student Assistant**, Donders Institute for Brain, Cognition, and Behaviour, Nijmegen, The Netherlands
Topics: Bilingualism; L2 language attrition
Supervised by: Prof. Dr. K.M. Lemhöfer

Grants

- 2026 – 2028  **NWO Rubicon grant**: The cognitive machinery behind segmental and prosodic perceptual learning; €152.604,-
PI: G.G.A. Severijnen; CO-PI: Dr. E. Kapnoula & Prof. Dr. A.G. Samuel

Research Publications

- 1 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., Koukouvinis, 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., Grahn, 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., Guiotto 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., & Peelle, 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. [DOI](https://doi.org/10.1098/rsos.220497) <https://doi.org/10.1098/rsos.220497>
- 2 **Severijnen, G. G. A.** (2025). *A blessing in disguise: How prosodic variability challenges but also aids successful speech perception*. [DOI](https://repository.ubn.ru.nl/handle/2066/315703) <https://repository.ubn.ru.nl/handle/2066/315703>
- 3 **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*. [DOI](https://doi.org/10.3758/s13423-025-02746-x) <https://doi.org/10.3758/s13423-025-02746-x>
- 4 **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. [DOI](https://doi.org/10.1016/j.wocn.2024.101296) <https://doi.org/10.1016/j.wocn.2024.101296>
- 5 **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. [DOI](https://doi.org/10.21437/SpeechProsody.2024-133) <https://doi.org/10.21437/SpeechProsody.2024-133>
- 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. [DOI](https://doi.org/10.1037/xhp0001105) <https://doi.org/10.1037/xhp0001105>
- 8 Muntendam, A., Van Rijswyk, 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. [DOI](https://doi.org/10.1017/S1366728922000037) <https://doi.org/10.1017/S1366728922000037>
- 9 **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). [DOI](https://doi.org/10.21437/SpeechProsody.2022-57) <https://doi.org/10.21437/SpeechProsody.2022-57>
- 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. [DOI](https://doi.org/10.1016/j.brainres.2021.147605) <https://doi.org/10.1016/j.brainres.2021.147605>

Talks and presentations

Invited talks

- 1 **Severijnen, G. G. A.** (2025). *From INsight to in SIGHT: Understanding prosodic adaptation in speech perception*. Leiden University, The Netherlands, [Faculty of Humanities, Leiden University. Invited by Prof. Dr. Yiya Chen].

- 2 **Severijnen, G. G. A.** (2024). *Prosodic variability not only challenges, but also contributes to successful speech perception*. Department of Linguistics, Potsdam, [Department of Linguistics, Potsdam. Invited by Prof. Dr. Isabell Wartenburger].
- 3 **Severijnen, G. G. A.** (2024). *Prosodic variability, friend or foe?* MPI for Psycholinguistics, [MPI for Psycholinguistics introduction day, invited by dr. Kevin Lam].
- 4 **Severijnen, G. G. A.**, & Di Dona, G. (2021). *Listeners deal with prosodic talker variability through perceptual learning*. Online meeting, University of Rochester, [Open lab meeting on talker variability, University of Rochester. Invited by dr. Chigusa Kurumada].

Conference talks and poster presentations

- 1 **Severijnen, G. G. A.**, & Crepaldi, D. (2025). *A unified mechanism of statistical learning? Evidence from cross-modal integration during learning*. Sheffield, UK, 24th Biennial Conference of the European Society for Cognitive Psychology (ESCP 2025), [Oral presentation].
- 2 **Severijnen, G. G. A.**, & Crepaldi, D. (2025). *A unified mechanism of statistical learning? Evidence from cross-modal integration during learning*. Egmond aan Zee, The Netherlands, NVP Winter Conference 2025, [Poster].
- 3 **Severijnen, G. G. A.**, Gärtner, V., Walther, R., & McQueen, J. M. (2024). *Perceptual learning about lexical stress: Stability over time*. Leiden, The Netherlands, 12th International Conference on Speech Prosody (Speech Prosody 2024), [Oral presentation].
- 4 **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*. Nijmegen, The Netherlands, Phonetics and Phonology in Europe 2023 (PaPe 2023), [Oral presentation].
- 5 **Severijnen, G. G. A.**, Bosker, H. R., & McQueen, J. M. (2023). *Listeners prioritize acoustic information over orthographic information in rate normalization*. Donostia-San Sebastián, Spain, Architectures and Mechanisms for Language Processing (AMLaP) 2023, [Poster].
- 6 **Severijnen, G. G. A.**, Bosker, H. R., & McQueen, J. M. (2023). *Syllable rate drives rate normalization, but is not the only factor*. Prague, Czech Republic, 20th International Congress of the Phonetic Sciences (ICPhS 2023), [Poster].
- 7 **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*. Lisbon, Portugal, 11th International Conference on Speech Prosody (Speech Prosody 2022), [Oral presentation].
- 8 **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*. Virtual meeting, 18th Conference on Laboratory Phonology (LabPhon18), [Poster].
- 9 **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*. Virtual meeting, Dag van de Fonetiek 2021, [Oral presentation].
- 10 **Severijnen, G. G. A.**, Bosker, H. R., & McQueen, J. M. (2021). *Listeners deal with prosodic talker variability through perceptual learning*. Virtual meeting, 62nd Annual Meeting of the Psychonomic Society, [Poster].
- 11 **Severijnen, G. G. A.**, Bosker, H. R., Piai, V., & McQueen, J. M. (2020). *The role of talker-specific prosody in predictive speech perception*. Virtual meeting, 26th Architectures and Mechanisms for Language Processing Conference (AMLaP 2020), [Poster].
- 12 **Severijnen, G. G. A.**, Bosker, H. R., Piai, V., & McQueen, J. M. (2020). *The role of talker-specific prosody in predictive speech perception*. Virtual meeting, Dag van de Fonetiek 2020, [Oral presentation].

Teaching Experience

- 2025 – current
- **Co-advisor PhD student**, University of Pavia
 - **Co-advisor MSc student**, University of Pavia
 - **Supervision MSc Erasmus+ student**, International School for Advanced Studies & Donders Institute for Brain, Cognition, and Behaviour
- 2024 – 2025
- **Supervision MSc student**, Radboud University Nijmegen
- 2023
- **Obtained university teaching qualification (UTQ)** at Radboud University Nijmegen
- 2022 – 2023
- **Supervision of BSc Honours students**, Radboud University Nijmegen
 - **Lecturer, Bachelor Linguistics**, Radboud University Nijmegen
- 2021 – 2023
- **Seminar teacher, Bachelor Linguistics**, Radboud University Nijmegen
- 2020 – 2023
- **Seminar teacher, Bachelor Psychology**, Radboud University Nijmegen
- 2020 – 2021
- **Supervision MSc student**, Radboud University Nijmegen

Courses and workshops

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

Additional Experience

Conference organization

- 2022-2023
- **Junior organization committee GESPIN conference**, Max Planck Institute for Psycholinguistics, Nijmegen
- 2022
- **Conference organization committee IMPRS conference**, Max Planck Institute for Psycholinguistics, Nijmegen

Ad-hoc reviewer activity

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

Outreach and institutional involvement

- 2025
- **Trieste Next**, Trieste, Italy
- 2024-current
- **SISSA for schools volunteer**, SISSA, Trieste, Italy

Additional Experience (continued)

- 2020-2024  **Lab committee member**, Donders Institute for Brain, Cognition, and Behaviour, Nijmegen
- 2019  **Demo at 'talenfestival Drongo'**, Nijmegen, The Netherlands

Skills

- | | |
|------------------------|---|
| Research methods |  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 |

References

Available on request