

# FLORIAN HINTZ

## Curriculum Vitae

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Max Planck Institute for Psycholinguistics · P.O. Box 310 · 6500 AH Nijmegen (NL)

### RESEARCH INTERESTS .....

Individual differences in language processing

Predictive language processing

Language processing in noisy environments

(Foreign) Language learning & processing

### EDUCATION .....

2015      PhD in Cognitive Psychology (Psycholinguistics), Radboud University, Nijmegen (NL)  
Thesis title  
*Predicting language in different contexts: The nature and mechanisms underlying anticipatory language processing*

2012      M.A., Linguistics (specialization in Psycholinguistics), University of Leipzig (GER)  
Thesis title  
*Language-mediated eye movements and cognitive control*

2011-2012      Exchange student, Centre of Language and Speech Technology and Donders Institute for Brain, Cognition and Behavior, Radboud University Nijmegen, (NL)

2010      B.A., Linguistics (specialization in Psycholinguistics), University of Leipzig (GER)  
Thesis title  
*Speech and speaker recognition in dyslexic individuals*

### ACADEMIC POSITIONS .....

2019–      Scientific board,  
[Healthy Brain Study](#)

2017–      Research staff and coordinator of [Big Question 4](#) project, funded by [Language in Interaction Consortium](#), Psychology of Language Department, Max Planck Institute for Psycholinguistics, Nijmegen (NL)

2015-2016      Post-doctoral researcher,  
Centre for Language Studies, Radboud University (NL)

2012-2014      PhD student,  
Psychology of Language Department, Max Planck Institute for Psycholinguistics,  
Nijmegen (NL)

## CURRICULUM VITAE · FLORIAN HINTZ

- 2009-2011 Intern and student assistant,  
Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig (GER)
- 2009-2010 Student assistant,  
University of Leipzig, Leipzig (GER)

### FUNDING .....

- 2015 Travel grant to attend CUNY conference in Los Angeles, California (US), awarded by Radboud University (700 €).
- 2014 Travel grant to attend CUNY conference in Columbus, Ohio (US), awarded by Radboud University (750 €).
- 2011 ERASMUS exchange student grant awarded by University of Leipzig (2500 €).
- 2010 ERASMUS research internship grant awarded by the University of Leipzig (750 €)

### MEMBERSHIP .....

European Society for Cognitive Psychology (ESCoP)

### COLLABORATIONS .....

#### **Max Planck Institute for Psycholinguistics**

Falk Huettig  
Suzanne Jongman  
Antje Meyer  
Mante Nieuwland  
Markus Ostarek

#### **Radboud University**

Judith Holler  
James McQueen

#### **(Inter-)National**

Marc Brysbaert (Gent University)  
Markus Damian (University of Bristol)  
Themis Karaminis (Edge Hill University)  
Fanny Meunier (Université Côte d'Azur)  
Odette Scharenborg (Technical University Delft)  
Sascha Schroeder (Georg-August-Universität Göttingen)

SUPERVISION .....

**Full-time scientific and technical staff**

- 2019- Xin Liu (Post-doctoral researcher)
- 2019- Merel Wolf, M.A. (PhD student, with Antje Meyer & Caroline Rowland)
- 2019- Bob Kapteijns, M.A. (research assistant)
- 2017- Olha Shkaravska, M.A. (programmer)
- 2017- Vera van 't Hoff, M.A. (research assistant)
- 2017- Marjolijn Dijkhuis, M.A. (research assistant)

**Master's-level**

- 2019- Sophie Conradi (Radboud University)
- 2018- Yung Han Khoe (Radboud University/University of Tilburg)
- 2018- Jiska Koemans (Radboud University/University of Tilburg)
- 2018 Arman Haeri (University of Pisa)
- 2017-2018 Celine Pronk (Utrecht University)
- 2016-2017 Marloes Graauwmans (Radboud University)

**Bachelor's-level**

- 2018 Laura Rosenbaum (University of Osnabruck)
- 2017 Maria van de Groep (Radboud University)
- 2017 Hay Driessen (Radboud University)
- 2014 Benedikt Langenbach (TU Dresden)
- 2013 Elisabeth Lehmann (University of Bonn)

TEACHING .....

- 2019 Guest lecturer on 'Speech Comprehension and Production' course, Research Master Language and Communication, Radboud University/University of Tilburg
- 2019 Guest lecturer on 'Trends in Cognitive Neuroscience' course, Research Master Cognitive Neuroscience, Radboud University
- 2019 Guest lecturer on 'Psychology of Language and Cultural Cognition' course, Master Linguistics, Radboud University
- 2019 Guest lecturer on 'Psycholinguistics' course, Master Dutch Language, Radboud University
- 2018 Guest lecturer on 'Trends in Cognitive Neuroscience' course, Research Master Cognitive Neuroscience, Radboud University

## CURRICULUM VITAE · FLORIAN HINTZ

- 2018 Guest lecturer on ‘Speech Comprehension and Production’ course, Research Master Language and Communication, Radboud University/University of Tilburg
- 2016 Instructor on one-day workshop on setting up and analyzing eye-tracking experiments for language research, Max Planck Institute for Psycholinguistics
- 2015 Instructor on two-day workshop on analyzing eye-tracking data using R, Max Planck Institute for Psycholinguistics
- 2014 Guest lecturer on ‘Psychology of Language’ course, University of Münster/Max Planck Institute for Psycholinguistics.

## REVIEW SERVICE .....

### **Journals**

Acta Psychologia  
Collabra: Psychology  
Journal of Cultural Cognitive Science  
Journal of Experimental Psychology: Learning, Memory, and Cognition  
Journal of Memory and Language  
Language and Speech  
Languages (MDPI)  
Memory and Cognition  
Royal Society Open Science

### **Conferences**

The Attentive Listener in the Visual World (AttLis)  
Embodied and Situated Language Processing conference (ESLP)  
Interspeech conference

## TECHNICAL AND RESEARCH SKILLS .....

### **Programming**

Experiment Builder (advanced), Java (basic), Latex (advanced), Matlab (basic), Perl (intermediate), Presentation (advanced)

### **Statistics**

Brain Vision Analyzer (intermediate), G\*Power (intermediate), R (including mixed effects modeling, advanced), SPSS (advanced)

### **Behavioral and neuroimaging designs/methods/techniques**

EEG/ERPs (intermediate)  
Eye-tracking (advanced)  
(Self-paced) reading, RT, (semantic) priming (advanced)

ORGANIZATION OF WORKSHOPS, MEETINGS .....

- 2017 'Testing Individual Differences in Language and other Cognitive Abilities' (TIDLCab), Max Planck Institute, Nijmegen
- 2016 'Psycholinguistic Approaches to Speech Processing in Adverse Conditions' (PASRAC2), Radboud University, Nijmegen
- 2015-2016 'Speech Processing in Adverse Conditions' (SpRAC) meetings at Centre for Language studies, Radboud University, Nijmegen
- 2012-2014 Lunch talk series at Max Planck Institute for Psycholinguistics.

PUBLIC OUTREACH AND MEDIA .....

- 10-2018 Public outreach at [Max Planck Day in Munich](#), representing the Max Planck Institute for Psycholinguistics.
- 10-2017 Interview for 'KENNISLINK' on [Individual Differences in Language Processing](#), featuring our work in Big Question 4 (Language in Interaction consortium).
- 10-2016 Public outreach at Drongo Science Festival in Utrecht, presenting our work on bilingual word recognition in noise.
- 10-2015 Interview for VOX (student magazine at Radboud University) on prediction in language processing.
- 08-2012 Various German TV and radio features on our research on Developmental Dyslexia.
- 05-2011 Various German TV and radio features on our online test screening people with Developmental Phonagnosia.

PUBLICATIONS .....

**Journal articles**

1. Hintz, F. & Brysbaert, M. (submitted). Dutch Author Recognition Test.
2. Hintz, F., Meyer, A.S., & Huettig, F. (in revision). The contributions of event knowledge and word associations to prediction during discourse reading: ERP evidence.
3. Jongman, S.R., Khoe, Y.H., Hintz, F. (revised & submitted). Vocabulary size influences spontaneous speech in native language users: Validating the use of automatic speech recognition in individual differences research.
4. Mantegna, F., Hintz, F., Ostarek, M., Alday, P., Huettig, F. (in press). Distinguishing integration and prediction accounts of ERP N400 modulations in language processing. *Neuropsychologia*.

## CURRICULUM VITAE · FLORIAN HINTZ

- Hintz, F., Meyer, A.S., & Huettig, F. (in press). Visual context constrains language-mediated anticipatory eye movements. *Quarterly Journal of Experimental Psychology*.
- \*Hintz, F., \*Jongman, S.R., Dijkhuis, M., van t' Hoff, McQueen, J.M., Meyer, A.S. (in press). Shared lexical access processes in speaking and listening? An individual differences study. *Journal of Experimental Psychology: Learning, Memory, and Cognition*. \*equal contribution
- Hintz, F., Meyer, A.S., & Huettig, F. (2017). Predictors of verb-mediated anticipatory eye movements in the visual world. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 43(9), 1352-1374.
- Hintz, F., Meyer, A.S., & Huettig, F. (2016). Encouraging prediction during production facilitates subsequent comprehension: Evidence from interleaved object naming in sentence context and sentence reading. *The Quarterly Journal of Experimental Psychology*, 69(6), 1056-1063.
- Hintz, F., & Meyer, A.S. (2015). Prediction and production of simple mathematical equations: Evidence from anticipatory eye movements. *PLoS One* 10(7).
- Roswadowitz, C., Mathias, S.R., Hintz, F., Kreitewolf, J., Schelinkski, S., & von Kriegstein, K. (2014). Two cases of selective voice-recognition impairments, *Current Biology*, 24(19), 2348-2353.
- Díaz, B., Hintz, F., Kiebel, S.J., & von Kriegstein, K. (2012). Dysfunction of the medial geniculate body during speech perception in developmental dyslexia. *Proceedings of the National Academy of Sciences of the United States of America*, 109(34), 13841-13846.

### Book chapter

- Hintz, F. & Huettig, F. (2015). The complexity of the visual environment modulates language-mediated eye gaze. In Mishra, R. K., Srinivasan, N., & Huettig, F. (Eds.), *Attention and Vision in Language Processing* (pp.39-56). New Delhi: Springer.

### Proceedings paper

- Hintz, F., & Scharenborg, O. (2016). The effect of background noise on the activation of phonological and semantic information during spoken word recognition. In *Proceedings of Interspeech 2016: The 17th Annual Conference of the International Speech Communication Association* (pp. 2816-2820).
- Hintz, F., & Scharenborg, O. (2016). Neighborhood density influences word recognition in native and non-native speech recognition in noise. In *Proceedings of the Speech Processing in Realistic Environments (SPIRE) workshop* (pp. 46-47).

## PRESENTATIONS .....

### Talks

- Hintz, F., Jongman, S. R., Dijkhuis, M., van 't Hoff, V., McQueen, J. M., & Meyer, A. S. (2019). Assessing individual differences in language processing: A novel research tool. Talk presented at the 21st Meeting of the European Society for Cognitive Psychology [ESCoP 2019]. Tenerife, Spain.

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2. Hintz, F. & Scharenborg, O. (September 2016). The effect of background noise on the activation of phonological and semantic information during spoken word recognition. Talk presented at Interspeech Conference in San Francisco, California, USA.
3. Hintz, F., McQueen, J.M., & Scharenborg, O. (September 2016) Effects of frequency and neighborhood density on spoken word recognition in noise: Evidence from perceptual identification in Dutch. Talk presented at the 22nd Architectures and Mechanisms of Language Processing [AMLaP] Conference in Bilbao, Spain.
4. Hintz, F., Meyer, A.S., & Huettig, F. (December 2015). Context-dependent employment of mechanisms in anticipatory language processing. Talk presented at the 15th NVP Winter Conference in Eegmond aan Zee, Netherlands.
5. Hintz, F., Meyer, A.S., & Huettig, F. (April 2014). Mechanisms underlying predictive language processing. Talk presented at the 56th Tagung experimentell arbeitender Psychologen [TeaP, Conference on experimental psychology] in Giessen, Germany.
6. Hintz, F., Meyer, A.S., & Huettig, F. (March 2014). The influence of verb-specific featural restrictions, word associations, and production-based mechanisms on language-mediated anticipatory eye movements. Talk presented at the 27th Annual CUNY Conference on Human Sentence Processing in Columbus, Ohio, USA.
7. Hintz, F. & Huettig, F. (June 2012). Phonological word-object mapping is contingent upon the nature of the visual environment. Talk presented at the Psycholinguistics in Flanders goes Dutch conference [PiF] in Berg en Dal, Netherlands.
8. Hintz, F. (November 2010). Speech and speaker recognition in dyslexic individuals. Talk presented at Studentische Tagung Sprachwissenschaft [StuTS, Student Conference on Linguistics] in Potsdam, Germany.

### Posters

9. Hintz, F., Ostarek, M., De Nijs, M., Joosen, D., & Huettig, F. (2019). N'Sync or A'Sync? The role of timing when acquiring spoken and written word forms in a tonal language. Poster presented at the 21st Meeting of the European Society for Cognitive Psychology [ESCoP 2019], Tenerife, Spain.
10. Hintz, F., Jongman, S. R., Dijkhuis, M., van 't Hoff, V., Damian, M., Schröder, S., et al. (2018). STAIRS4WORDS: A new adaptive test for assessing receptive vocabulary size in English, Dutch, and German. Poster presented at Architectures and Mechanisms of Language Processing [AMLaP] conference, Berlin (GER).
11. Hintz, F., Jongman, S. R., McQueen, J. M., & Meyer, A. S. (2018). Verbal and non-verbal predictors of word comprehension and word production. Poster presented at Architectures and Mechanisms of Language Processing [AMLaP] conference, Berlin, Germany.
12. Hintz, F., Jongman, S.R., McQueen, J.M., & Meyer, A.S. (2018). Hintz, F., Jongman, S. R., McQueen, J. M., & Meyer, A. S. (2018). Individual differences in word production: Evidence from students with diverse educational backgrounds. Poster presented at International Workshop on Language Production [IWLP], Nijmegen, Netherlands.

13. Karaminis, T., Hintz, F., Scharenborg, O. (2017). The Effects of Background Noise on Native and Non-native Spoken Word Recognition: An Artificial Neural Network Modelling Approach. Poster presented at the Ninth Annual Meeting of the Society for the Neurobiology of Language.
14. Van de Groep, M., Scharenborg, O., & Hintz, F. (September 2016). Looking at the knife when hearing "map". The engagement of one's native lexicon when recognizing non-native speech in noise. Poster presented at 2nd Psycholinguistic Approaches to Speech Recognition in Adverse conditions workshop in Nijmegen, Netherlands.
15. Van de Groep, M., Scharenborg, O., & Hintz, F. (September 2016). Looking at the knife when hearing "map". The importance of one's native lexicon when recognizing non-native speech in noise. Poster presented at Workshop for Young Female Researchers in Speech Science & Technology in San Francisco, California, USA.
16. Hintz, F. & Scharenborg, O. (September 2016). The effect of background noise on the activation of phonological and semantic information during spoken word recognition. Poster presented at the 22nd Architectures and Mechanisms for Language Processing [AMLaP] Conference in Bilbao, Spain.
17. Hintz, F., & Scharenborg, O. (January 2016). Neighborhood density influences word recognition in native and non-native speech recognition in noise. Poster presented at the Speech Processing In Realistic Environments workshop [SPIRE 2016] in Groningen, Netherlands.
18. Hintz, F., Meyer, A.S., & Huettig, F. (March 2015). Event knowledge and simple word associations jointly influence predictive processing during discourse comprehension. Poster presented at the 28th Annual CUNY Conference on Human Sentence Processing in Los Angeles, California, USA.
19. Hintz, F., Meyer, A.S., & Huettig, F. (March 2015). Doing a production task encourages prediction during comprehension: Evidence from interleaved object naming and sentence reading. Poster presented at the 28th Annual CUNY Conference on Human Sentence Processing in Los Angeles, California, USA.
20. Hintz, F., Meyer, A. S., Huettig, F. (September 2014). Prediction using production or production engaging prediction? Poster presented at the 20th Architectures and Mechanisms of Language Processing [AMLaP] Conference, Edinburgh, UK.
21. Roswadowitz, C., Mathias, S., Hintz, F., Kreitewolf, J., Schelinski, S., & von Kriegstein, K. (June 2014). Two cases of developmental phonagnosia: Insights into behavioral characteristics. Poster presented at the 20th Annual Meeting of the Organization for Human Brain Mapping [OHBM] in Hamburg, Germany.
22. Hintz, F. & Meyer, A. S. (August 2013). Prediction and production of simple mathematical equations. Poster presented at the Meeting of the European Society for Cognitive Science [ESCoP], Budapest, Hungary.
23. Hintz, F. Meyer, A. S., & Huettig, F. (October 2012). Looking at nothing facilitates memory retrieval. Poster presented at the Donders Discussions, Nijmegen, Netherlands.
24. Hintz, F. & Huettig, F. (September 2012). Phonological word-object mapping is contingent upon the nature of the visual environment. Poster presented at the 18th Annual Conference on Architectures and Mechanisms for Language Processing [AMLaP], Riva del Garda, Italy.



25. Diaz, B., Hintz, F., Kiebel, S. J. & von Kriegstein, K. (2011). Dysfunction of the medial geniculate body during speech processing in dyslexia. Poster presented at the Symposium Vocalization and audition: Cross-species comparison, Leipzig, Germany.

REFERENCES .....

Prof. Dr. Antje S. Meyer (current)  
Max Planck Institute for Psycholinguistics  
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Prof. Dr. James M. McQueen (current)  
Donders Institute for Brain, Cognition and Behavior  
Radboud University  
Email: j.mcqueen@donders.ru.nl

Prof. Dr. Falk Huettig (current)  
Max Planck Institute for Psycholinguistics  
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Dr. Odette Scharenborg  
Multimedia Computing Group  
Delft University of Technology  
Email: o.e.scharenborg@tudelft.nl

Prof. Dr. Katharina von Kriegstein  
Faculty of Psychology  
Technical University, Dresden  
Email: katharina.von\_kriegstein@tu-dresden.de