

CAROLINE BEESE

Max Planck Institute for Human Cognitive and Brain Sciences
Stephanstr. 1a, 04103 Leipzig, Germany

+49 341 9940 120
beese@cbs.mpg.de

ACADEMIC EXPERIENCE AND EDUCATION*Current Position***2014 – PhD Candidate**

pres. *Max Planck Institute for Human Cognitive and Brain Sciences,
Department of Neuropsychology, Leipzig, Germany*
Supervisors: Dr Lars Meyer, Prof. Dr. Angela Friederici
Thesis: The Effects of Neurocognitive Aging on Sentence Processing

*Education***2012 – MSc in Cognitive Neuroscience**

2014 *Radboud University, Nijmegen, The Netherlands*
Supervisor: Dr Diana Dimitrova
Thesis: The role of syntactic cueing on the memory for focus and non-focus during reading

2009 – BA Honours International Studies: Language and Culture

2012 *University of Greenwich, London, UK*
Supervisor: Dr Maria J. Arche
Thesis: The role of syntactic complexity and working memory in comprehending structures involving syntactic movement

*Previous Research Experience***2013 – Student Assistantship**

2014 *Max Planck Institute for Psycholinguistics,
The Language Archive, Nijmegen, The Netherlands*
Advisor: Dr Sebastian Drude

2012 – Student Assistantship

2013 *Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands*
Research Group on Syntax, typology and information structure
Advisor: Dr Dejan Matić

2012 Research Internship

Potsdam Research Institute for Multilingualism, Potsdam, Germany
Advisor: PD Dr Claudia Felser

2011 Research Internship

*Max Planck Institute for Human Cognitive and Brain Science,
Department of Neuropsychology, Leipzig, Germany*
Advisor: Dr Anja Fengler

PEER-REVIEWED PUBLICATIONS

- in revision* **Beese, C.**, Vassileiou, B., Friederici, A. D., & Meyer, L. (*in revision*) Age Differences in Alpha Power during Encoding Reflect Sentence Comprehension Difficulties.
- Vassileiou, B., **Beese, C.**, Friederici, A. D., & Meyer, L. (*in revision*) Interaction of white-matter connectivity and oscillatory desynchronization explains sentence encoding performance.
- published* **Beese, C.**, Werkle-Bergner, M., Lindenberger, U., Friederici, A. D. & Meyer, L. (2018) Adult age differences in the benefit of syntactic and semantic constraints for sentence processing. *Psychology and Aging*
- Vassileiou, B., Meyer, L., **Beese, C.** & Friederici, A.D. (2018) Alignment of alpha-band desynchronization with syntactic structure predicts successful sentence comprehension. *NeuroImage*, 175: 286-296
- Beese, C.**, Meyer, L., Vassileiou, B. & Friederici, A.D. (2017). Temporally and spatially distinct theta oscillations dissociate a language-specific from a domain-general processing mechanism across the age trajectory. *Scientific Reports*, 7, 11202

GRANTS

- 2018 Research Academy Leipzig, Travel Grant
- 2017 Vision in Science, Travel Grant
- 2016 Research Academy Leipzig, Travel Grant
- 2014 – 2019 International Max Planck Research School on Neuroscience of Communication, PhD Scholarship

TALKS*invited*

- 2019 **Beese, C.** *Age differences in Syntactic but not Semantic Processing*, To be presented at, Leibniz-Zentrum Allgemeine Sprachwissenschaft, Berlin, Germany, April 2019
- Beese, C.** *Age-Related Decline in Sentence Processing: Deriving Corpus-Linguistic Hypotheses from Psycholinguistic Data*, Presented at CLARe4, Helsinki, Finland, February 2019
- 2018 **Beese, C.** *Electrophysiological Basis of Sentence Processing across the Life Span*, University of Oldenburg, Oldenburg, Germany, December 2018
- Beese, C.** *Age differences in the use of Linguistic Constraints during sentence processing*. Presented at Potsdam University, Potsdam, Germany, June 2018
- Beese, C.** *Oscillatory Fingerprints of Language Comprehension across the Lifespan*. Talk presented as Chair (Co-Chair: Lars Meyer) in the Symposium “Advances in Language Electrophysiology: from Auditory Processing to Sentence Comprehension” at Psychologie und Gehirn, Gießen, Germany, May/June 2018

Beese, C. *The role of verbal working memory in sentence processing across the lifespan.* Presented at the University Hospital of Leipzig, Germany, May 2018

Beese, C. *The role of age differences in verbal working memory on sentence processing.* Presented at a colloquium at the Max Planck Institute for Human Development, Berlin, Germany, January 2018

2017 **Beese, C.** *The electrophysiological integrity of sentence processing across the life span.* Presented at Donders Discussions 2017, Nijmegen, The Netherlands, October 26, 2017

POSTERS

2018 **Beese, C.,** Werkle-Bergner, M., Lindenberger, U., Friederici, A. D., & Meyer, L. 2018 *Age differences in the use of syntactic and semantic associations during sentence processing.* AMLaP, September 7, 2018, Berlin, Germany

Beese, C., Vassileiou, B., Friederici, A.D., & Meyer, L. 2018. *From Desynchronization to Synchronization: A Lifespan Shift of Alpha-Band Power During Sentence Comprehension.* Poster presented at SNL, August 15, 2018, Quebec, Canada

Vassileiou, B., **Beese, C.,** Friederici, A.D., & Meyer, L. 2018 White-matter connectivity interacts with oscillatory desynchronization to explain sentence encoding. Poster presented at the Tenth Annual Society for the Neurobiology of Language (SNL) Conference, August 17, 2018, Québec City, Québec, Canada

2017 Vassileiou, B., Meyer, L., **Beese, C.,** & Friederici A. D. 2017. *Syntax is the key to memorizing long sentences: The role of brain oscillations.* Poster presented at the Conference on Interdisciplinary Approaches to Linguistic Theory 1, Crete, Greece

Vassileiou, B., Meyer, L., **Beese, C.,** & Friederici A. D. 2017. *Syntax is the key to memorizing long sentences: The role of brain oscillations.* Poster presented at Architectures and Mechanisms of Language Processing, Lancaster, UK

Beese, C., Meyer, L., Werkle-Bergner, M., Düzel, S., Kühn, S., Demith, I., Lindenberger, U., & Friederici, A.D. *The benefit of syntactic chunking for language comprehension in the aging brain.* Poster presented at IMPRS Summer School, London, UK

Vassileiou, B., Meyer, L., **Beese, C.** & Friederici, A.D. *Syntax is the key to memorizing long sentences: The role of oscillations.* Poster presented at IMPRS Summer School, London, UK

Beese, C., Meyer, L., Vassileiou, B. & Friederici, A.D. *Resting State Theta Power as Marker of Successful Language Comprehension across the Lifespan.* Poster presented at Neural Oscillations in Speech and Language Processing, Berlin, Germany

Vassileiou, B., Meyer, L., **Beese, C.** & Friederici, A.D. *Syntax is the key to memorizing long sentences: The role of oscillations.* Poster presented at Neural Oscillations in Speech and Language Processing, Berlin, Germany

Vassileiou, B., Meyer, L., **Beese, C.** & Friederici, A.D. *The function of alpha band oscillations in successful sentence encoding*. Poster presented at OHBM, Vancouver, Canada

2016 **Beese, C.**, Meyer, L., Vassileiou, B. & Friederici, A.D. *Resting State Theta Power as Marker of Successful Language Comprehension across the Lifespan*. Poster presented at Society for Neuroscience, San Diego, US

Beese, C., Meyer, L., Vassileiou, B. & Friederici, A.D. *Resting-State EEG as Joint Marker of Language Performance and Age-Related Cognitive Decline*. Poster presented at IMPRS Summer School, Leipzig, Germany

OUTREACH

2018 **Beese, C.** *Wie versteht das Gehirn Sprache?* Talk presented at Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany, March 27

2017 **Beese, C.** *Forever Young – Language Resists Aging*. Science Slam Talk presented at the Vision in Science, Berlin, Germany, October 1

MEMEBERSHIPS

2018/19 Society for the Neurobiology of Language

2016/17 Society for Neuroscience

TEACHING

Courses

2015/16 **BSc Psychology**
University of Leipzig, Germany
 Course: Introduction to Experimental Psychology (2h/w)

Single Lectures

2017 **MSc European Masters in Clinical Linguistics**
University of Potsdam, Germany
 Lecture: Does sentence comprehension decline with age?

SUPERVISION

2018/19 **Master Thesis**
 Gayane Ghazaryan, University of Osnabrück, MSc
 Title: Resting-state EEG markers of age-related changes in language acquisition.

2018 **Research intern**
 Veronica Baldin, University of Salzburg, BA

- 2016/17 **Research intern**
 Fernando Ardente, University of Saarbrücken, MA
- 2016 **Research intern**
 Johanna Tegtmeyer, University of Leipzig, MSc
- 2015 **Research intern**
 Marie-Theres Götze, University of Leipzig, BA

ORGANISATIONAL EXPERIENCE

- 2013 M24 workshop on Common Language Resources and Technology Infrastructure
 (CLARIN)
 Nijmegen, The Netherlands