CAROLINE BEESE

Max Planck Institute for Human Cognitive and Brain Sciences
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ACADEMIC EXPERIENCE AND EDUCATION ·······································

Current Position

2020 – pres.	**Post-doc**
	Max Planck Institute for Human Cognitive and Brain Sciences, Department of Neuropsychology, Leipzig, Germany

Previous Positions

2019 – 2020	**Post-doc**
	Max Planck Institute for Human Development, Center for Lifespan Psychology, Berlin, Germany

Education

2014 – 2019	**Dr. rer. nat. Psychology** (summa cum laude)
	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

2012 – 2014	**MSc, Cognitive Neuroscience**
	Radboud University, Nijmegen, The Netherlands
	Supervisor*:* Dr Diana Dimitrova
	Thesis: The role of syntactic cueing on the memory for focus and non-focus information during reading

2009 – 2012	**BA Honours, International Studies: Language and Culture**
	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 – 2014	**Student Assistantship**
	Max Planck Institute for Psycholinguistics, The Language Archive, Nijmegen, The Netherlands
	Advisor: Dr Sebastian Drude

2012 – 2013	**Student Assistantship**
	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 prep　　Van Scherpenberg, C., Martin, S., Hartwigsen, G., Obrig, H. & **Beese, C.** (*in prep*) Age-related decline of semantic inhibition despite the preservation of semantic memory

Beese, C., Ghazaryan, G., Nikulin, V.,Schaadt, G., Männel, C., Meyer, L. (*in prep*) Longitudinal changes in resting-state EEG markers predict language and memory performance in children

In revision　　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.**, Vassileiou, B., Friederici, A. D., & Meyer, L. (2019). Age Differences in Encoding-Related Alpha Power Reflect Sentence Comprehension Difficulties. *Frontiers in Aging Neuroscience*, 11, 183

Beese, C., Werkle-Bergner, M., Lindenberger, U., Friederici, A. D. & Meyer, L. (2019) Adult age differences in the benefit of syntactic and semantic constraints for sentence processing. *Psychology and Aging*, 34, 43–55

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

AWARDS

2020　　PhD Award, Research Academy Leipzig

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

2020   **Beese, C.** Electrophysiological aging disentangles aspects of preservation and decline in sentence processing across the life span. Neurolinguistic Seminar, Center for Language and Brain, HSE University Moscow, April 2020

2019   **Beese, C.** *Age differences in Syntactic but not Semantic Processing*, 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

2019   van Scherpenberg, C., Martin, S., Hartwigsen, G., Obrig, H., & **Beese, C.** (2019) Age-related decline of semantic inhibition despite the preservation of semantic memory. paEpsy, Tagung der Fachgruppen Pädagogische Psychologie und Entwicklungspsychologie, September, 9-12, Leipzig, Germany

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

REVIEWER FOR··

European Journal of Neuroscience

NeuroImage

Psychology and Aging

Frontiers in Human Neuroscience

Neuropsychologia

Journal of Neuroscience Methods

Neurobiology of Aging

OUTREACH

2019   **Beese, C.** *Wie versteht das Gehirn Sprache?* (How does the brain understand language?) Talk presented at the Open School Day at the MPI for Human Cognitive and Brain Sciences, Leipzig, Germany, April 4

2018   **Beese, C.** *Wie versteht das Gehirn Sprache?* (How does the brain understand language?) Talk presented at the Open School Day at the MPI 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

MEMBERSHIPS

2018/19   Society for the Neurobiology of Language

2016/17   Society for Neuroscience

TEACHING

Courses

2021   **BA Psychology**
       Applied University Fresenius, Berlin, Germany
       Course: Psychology of Language (1h/w)

2020/21   **BA Linguistics**
       University of Vienna, Austria
       Course: Introduction to Experimental Psychology (1h/w)

          BA Linguistics
       University of Vienna, Austria
       Course: Psycholinguistics and Clinical Linguistics (2h/w)

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

2020/21 **Master Thesis**
Moana Moesslang
Title: Modulating the Perception of Elderspeak

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

2021 Leipzig Lectures of Language
Online Series of Talks
Leipzig, Germany

2013 M24 workshop on Common Language Resources and Technology Infrastructure
Nijmegen, The Netherlands