

# Katja I. Haeuser

Lifespan Cognition Lab (Department of Psychology)  
SFB 1102 *Information Density & Linguistic Encoding*  
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City, country & date of birth: Nuremberg, Germany, 23.11.1984  
Citizenship: German

## ACADEMIC EMPLOYMENT

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08/2018 – present	Researcher & Lecturer <i>Department of Psychology</i> Saarland University, Germany Associated member SFB <i>Information Density &amp; Linguistic Encoding</i>
09/2016 – 07/2018	Postdoctoral researcher SFB <i>Information Density &amp; Linguistic Encoding</i> , Project A4: Language Comprehension and Cognitive Control Demands. PIs: Vera Demberg (Computational Linguistics) & Jutta Kray (Psychology) <i>Department of Computational Linguistics</i> Saarland University, Germany
04/2016 – 08/2016	Postdoctoral researcher <i>Department of Linguistics</i> Ruhr-Universität Bochum, Germany PI: Eva Belke (Psycholinguistics)

## EDUCATION

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9/2011– 11/2016	McGill University, Montreal, Canada, <i>PhD</i> . Affiliations: Center for Research on Brain, Language & Music, Department of Communication Sciences & Disorders. PhD advisors: Shari Baum (Neurolinguistics) & Debra Titone (Psychology)
8/2010 – 8/2011	McGill University, Montreal, PhD Comprehensive Exam (Qualifying Year)

9/2007 - 12/2009	Philipps-University Marburg, Germany, <i>Master of Arts</i> Clinical Linguistics MA advisor: Frank Domahs (Neurolinguistics)
8/2006 - 7/2007	Washington & Lee University, Lexington (VA), USA Teaching assistant for German
9/2004 - 8/2007	University of Bayreuth, Germany, <i>Bachelor of Arts</i> English & Intercultural Communication

## PEER-REVIEWED JOURNAL ARTICLES

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<i>under review</i>	Haeuser, K. I., Kray, J., & Borovsky, A. (submitted). Hedging bets in linguistic prediction: Younger and older adults vary in the breadth of predictive processing.
2021	Haeuser, K. I., & Kray, J. (2021). Effects of prediction error on episodic memory retrieval: evidence from sentence reading and word recognition. <i>Language, Cognition and Neuroscience</i> , 1-17.
2020	Haeuser, K. I., Baum, S. & Titone, D. A. (2020). Effects of aging and noncanonical form presentation on idiom processing: Evidence from eye tracking. <i>Applied Psycholinguistics</i> , 42, 1-29.
2020	Haeuser, K. I., Kray, J., & Borovsky, A. (2020). Great expectations: Evidence for graded prediction of grammatical gender. In S. Denison, M. Mack, Y. Xu, & B. C. Armstrong (Eds.), <i>Proceedings of the 42nd Annual Meeting of the Cognitive Science Society</i> (pp. 1157-1163). Cognitive Science Society.
2019	Haeuser, K. I., Demberg, V., & Kray, J. (2019). Effects of aging and dual-task demands on the comprehension of less expected sentence continuations: Evidence from pupillometry. <i>Frontiers in Psychology</i> , 10, 709.
2018	Häuser, K. I., Demberg, V., & Kray, J. (2018). Surprisal modulates dual-task performance in older adults: Pupillometry shows age-related trade-offs in task performance and time-course of language processing. <i>Psychology and Aging</i> , 33(8), 1168-1180.
2017	Haeuser, K. I., Demberg, V., & Kray, J. Age differences in language comprehension during driving: Recovery from prediction error is more effortful for older adults. In R. Granger, U. Hahn, & R. Sutton (Eds.), <i>Proceedings of the 39th Annual</i>

*Meeting of the Cognitive Science Society*. Austin (TX): Cognitive Science Society.

- 2016 Haeuser, K. I., Titone, D. A., & Baum, S. R. (2016). The role of the ventro-lateral prefrontal cortex in idiom comprehension: An rTMS study. *Neuropsychologia*, *91*, 360-370.
- 2014 Columbus, G., Sheikh, N. A., Côté-Lecaldare, M., Häuser, K. I., Baum, S. R., & Titone, D. (2014). Individual differences in executive control relate to metaphor processing: An eye movement study of sentence reading. *Frontiers In Human Neuroscience*, *8*, 1057.
- 2014 Haeuser, K. I., & Domahs, F. (2014). Functional lateralization of lexical stress representation: A systematic review of patient data. *Frontiers in Psychology*, *5*, 317.

## CONFERENCE PRESENTATIONS

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- 2021 Haeuser, K. I., & Kray, J. (2021). How odd: Diverging effects of mild and strong plausibility violations during initial sentence reading and subsequent word recognition. Short talk, *Annual Architectures and Mechanisms for Language Processing Conference*, September 2-4.
- 2021 Haeuser, K. I., Vergilova, Y. & Kray, J. (2021). Do children predict grammatical gender of nouns? Mini Talk held at the *34<sup>th</sup> Annual CUNY Human Sentence Processing*, March 4-6.
- 2020 Haeuser, K. I., & Kray, J. (2020). Behavioral evidence for linguistic prediction in older, but not younger, readers of German. Poster presentation, *33rd Annual CUNY Human Sentence Processing*, March 19-21st.
- 2019 Haeuser, K. I., & Kray, J. (2019). As you like it: Predictive processing enhances episodic memory retrieval. Conference talk, *RAILS – Rational approaches in language science*, Saarbrücken, Germany, October 24-26.
- 2019 Haeuser, K. I., Demberg, V., & Kray, J. (2019). Dual-task demands induce comprehension difficulties for unpredictable words in older adults. Poster presentation, *5<sup>th</sup> Aging & Cognition Conference*, Zürich, Switzerland, April 24-26.

- 2018 Haeuser, K. I., Demberg, V., & Kray, J. Older adults ramp up comprehension for high (but not medium) cloze targets in a dual task. Poster presentation, *31st Annual CUNY Conference on Human Sentence Processing*, Davis, CA, March 15-17.
- 2017 Haeuser, K. I., Demberg, V., & Kray, J. Language comprehension under cognitive load: Age-related differences in single vs dual task performance. Poster presentation, *30th Annual CUNY Conference on Human Sentence Processing*, Boston, MA, March 30–April 1.
- 2015 Haeuser, K. I., Baum, R. S., & Titone, D. A. Late L2 Acquisition Facilitates Idiom Processing in the L1: An eye-movement study. Poster presentation, *Montreal Bilingual Brain Initiative Symposium*, Montreal, QC, May 28-29.
- 2014 Haeuser, K. I., Baum, R. S., & Titone, D. A. (2014). Healthy aging modulates idiom processing: Evidence from eye-movement measures. Poster presentation, *6th Annual Meeting of the Society for the Neurobiology of Language*, Amsterdam, August 27-29.
- 2013 Haeuser, K. I., Titone, D. & Baum, S. (2013). The role of the inferior frontal cortex in idiom comprehension: An rTMS study. Poster presentation, *5th Annual Meeting of the Society for the Neurobiology of Language*, San Diego, CA, November 6-8.
- 2012 Haeuser, K. I., Côté-Lecaldare, M., Sheikh, N., Lovseth, K., Baum, S., & Titone, D. (2012). Metaphor processing during first and second language reading. Poster presentation, *22nd Annual Meeting of the Canadian Society for Brain, Behavior and Cognitive Science (CSBBCS)*, Kingston, ON, June 7-9.
- 2012 Haeuser, K. I., Côté-Lecaldare, M., Sheikh, N., Lovseth, K., Baum, S., & Titone, D. (2012). Inhibitory capacity modulates idiom processing: Evidence from eye-movement measures. Poster presentation, *8th International Mental Lexicon Conference*, Montreal, QC, October 24-26.

## AWARDS

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- 2010-2015 PhD Fellowship, School of Communication Sciences and Disorders, Faculty of Medicine, McGill University (annual stipend of \$ CAD 50000)

2013	Graduate Scholar Stipend, Center for Research on Brain, Language and Music, McGill University (\$ CAD 2000)
2013	Graduate Travel Award, School of Communication Sciences and Disorders, McGill University (\$ CAD 2000)
2012	Interdisciplinary Graduate Scientist Award, Center for Research on Brain, Language and Music, McGill University (\$ CAD 8000)

## RESEARCH FUNDING

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2019	Saarland University Start-Up Grant (€13000)
2013	Interdisciplinary Graduate Scientist Award, Center for Research on Brain, Language and Music, McGill University (\$ CAD 8000)

## TEACHING

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SS2021	Seminar: Cognition, Learning & Development (2 SWS) (taught in German). <i>Prediction and memory.</i>
WS 2020/2021	Lecture/Vorlesung: <i>Allgemeine Psychologie. Two sessions: Introduction to Language Processing, Models of speech processing, Models of reading comprehension</i> (taught in German)
WS 2020/2021	Research seminar ( <i>Empiriepraktikum</i> ): <i>Prediction error and memory</i> , 1 SWS (taught in German)
WS 2020/2021	<i>Introduction to Psychology</i> , Seminar, 2 SWS; (taught in German)
WS 2020	Lecture/Vorlesung: <i>Allgemeine Psychologie. 1 session: Introduction to Language Processing</i> (taught in German)
WS 2019 & SS 2020	Research seminar ( <i>Empiriepraktikum</i> ): <i>Language processing &amp; aging</i> (taught in German), 2 SWS
WS 2018 & SS 2019	Research seminar ( <i>Empiriepraktikum</i> ): <i>Predictive language processing</i> (taught in German), 2 SWS
WS 2017	Department of Computational Linguistics (Saarland University) Seminar: <i>Statistics with R</i> (taught in English), 2 SWS
WS 2016	Department of Computational Linguistics (Saarland University) Seminar: <i>Statistics with R</i> (taught in English), 2 SWS

## ADMINISTRATIVE & DEPARTMENTAL WORK

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2020-2021	Programming & maintenance of GatherTown, a virtual conference tool provided by the Department of Psychology for first-semester psychology students.
since 2021	Co-organizer of award ceremony for outstanding BA and MA theses in psychology & poster slam 4 <sup>th</sup> year Psych students
since 2021	Organizer of the SFB group <i>Experiments</i>
since 2018	Website maintenance for the Lifespan Cognition Lab using Typo3 ( <a href="https://www.uni-saarland.de/lehrstuhl/kray.html">https://www.uni-saarland.de/lehrstuhl/kray.html</a> )

## AD-HOC REVIEWING

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*PLOS ONE, Psychophysiology, Aging, Neuroscience & Cognition, International Journal of Psychophysiology; Language, Cognition & Neuroscience; Scientific Reports; Psychology & Aging;*

## MENTORING & ADVISING

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since 2020	Founder & organizer of the SFB mentoring program <i>Postdocs for PhDs</i>
SS 2018	BA thesis Christine Schäfer, Computational Linguistics: <i>Disambiguierung von wörtlicher und übertragener Bedeutung von Multiword Expressions</i>
WS 2020	BA thesis Nadja Burgwinkel, Department of Psychology: <i>Are recognition advantages for highly predictable words better explained by increased verb noun associations?</i>
SS 2021	BA theses Alena Niesen, Lara Wiederhold & Luzi Warnatsch

## WORKSHOPS

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2020 Summer School on Statistical Methods for Linguistics and Psychology (SMLP), Potsdam (virtual workshop). *Bayesian Modelling*

## MEMBERSHIPS

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since 2019	Fellow of the Saarland University <i>Exzellenzprogramm für Wissenschaftlerinnen</i> (duration: 4 years): competitive program that supports young female academics by means of coachings and workshops.
since 2019	Member of the European Cognitive Ageing Society (EUCAS)
since 2015	Member of the Cognitive Neuroscience Society (CNS)
since 2012	Member of the Society for the Neurobiology of Language (SNL)

## CLINICAL INTERNSHIPS

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07-09 2008	Three-months internship as speech-language therapist for neurogenic language disorders at the Helios Amper clinic for rehabilitation in Dachau, Germany.
02-03 2008	Two-months internship as speech-language therapist for developmental language disorders at Logopaedia – SLT in Nuremberg, Germany.

## SKILLS & LANGUAGES

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German	native
English	fluent
R	data wrangling, data pre-processing, advanced data analysis
Typo3	website maintenance & administration