

Katja I. Haeuser

Lecturer and Principal Investigator
SFB 1102 *Information Density & Linguistic Encoding*
Department of Psychology
Campus A 1.3., Room 2.13
Saarland University
Saarbrücken, 66123
Germany
E-mail: khaeuser@coli.uni-saarland.de

City, country & date of birth: Nuremberg, Germany, 23.11.1984
Citizenship: German

ACADEMIC EMPLOYMENT

since 08/2022	Principal Investigator SFB <i>Information Density & Linguistic Encoding</i> Project A5, <i>The role of language experience and surprisal in learning and memory</i> (link to my project)
08/2018 – present	Researcher & Lecturer <i>Department of Psychology</i> Saarland University, Germany Associated member SFB <i>Information Density & Linguistic Encoding</i>
09/2016 – 07/2018	Postdoctoral researcher SFB <i>Information Density & 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

- 9/2011–
11/2016 McGill University, Montreal, Canada, *PhD*.
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, *Master of Arts*
Clinical Linguistics
MA thesis 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, *Bachelor of Arts*
English & Intercultural Communication

TALKS

- 2023 Haeuser, K. I. (2023). *Didn't see it coming? Converging evidence on online and downstream consequences of predictive processing*. Invited Talk held at the Ludwig-Maximilians-University, Ringvorlesung “Recent Advanced in Linguistic Methods”, April 27th, München, Germany.
- 2023 Haeuser, K. I. (2023). *The dark side of prediction: Pervasive false memories for words predicted but not seen*. Talk held at the 35th Annual conference on Human Sentence Processing, March 9-11, Pittsburgh, PA.
- 2023 Haeuser, K. I. (2023). *Prediction and memory consequences of predictive processing*. Invited Talk held at the *Up and Coming Researcher Series*, Psychology Department of the University of Reading (Online talk), February 2nd, Reading, UK.

PEER-REVIEWED JOURNAL ARTICLES

- 2022 Haeuser, K. I., & Kray, J. (2022). How odd: Diverging effects of predictability and plausibility violations on sentence reading and word memory. *Applied Psycholinguistics*, 43(5), 1-28.

- 2022 Haeuser, K. I., & Kray, J. (2022). Uninvited and unwanted: False memories for words predicted but not seen. In J. Culbertson, A. Perfors, H. Rabagliati & V. Ramenzoni (Eds.), *Proceedings of the 44th Annual Meeting of the Cognitive Science Society* (pp. 2401-2408).
- 2022 Haeuser, K. I., Kray, J., & Borovsky, A. (2022). Hedging bets in linguistic prediction: Younger and older adults vary in the breadth of predictive processing. *Collabra: Psychology*, 8(1).
- 2021 Haeuser, K. I., & Kray, J. (2021). Effects of prediction error on episodic memory retrieval: evidence from sentence reading and word recognition. *Language, Cognition and Neuroscience*, 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. *Applied Psycholinguistics*, 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.), *Proceedings of the 42nd Annual Meeting of the Cognitive Science Society* (pp. 1157-1163).
- 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. *Frontiers in Psychology*, 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. *Psychology and Aging*, 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.), *Proceedings of the 39th Annual 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

- 2023 Haeuser, K. I. (2023). Can we explain false memories for predictable but not encountered words by means of simple semantic relation? - Probably not. Poster presentation at the *LingCologne 2023 conference*, June 16th-17th, Cologne, Germany.
- 2022 Haeuser, K. I., & Kray, J. (2022). Uninvited and unwanted: False memories for words predicted but not seen. Hybrid poster presentation. *44th Annual Meeting of the Cognitive Science Society*.
- 2022 Haeuser, K. I., & Kray, J. (2022). Inducing false memories: Remembering words that are predicted but not seen. Hybrid poster presentation held at the *35th Annual Conference on Human Sentence Processing*, March 24-26.
- 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 *34th 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, *5th 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

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

2022	DFG-funded research grant for project A5 <i>The Role of Language Experience and Surprisal for Learning and Memory</i> within the CRC 1102 (Co-PI with Jutta Kray, net worth of my part of the project: €500.000)
2019	Saarland University Start-Up Grant (€13.000)
2013	Interdisciplinary Graduate Scientist Award, Center for Research on Brain, Language and Music, McGill University (\$ CAD 8000)

TEACHING EXPERIENCE

Seminars	<u>M.A. Psychology:</u> <i>Prediction and Memory (research seminar, 2 hours)</i> <i>False memory (research seminar, 2 hours)</i> <u>B.A. Psychology:</u> <i>Introduction to Psychology (practical research seminar, 2 hours)</i> <i>Predictive Language Processing (research seminar, 2 hours)</i> <i>Research Practice Seminar (practical research seminar, 4 hours)</i> <u>B.A. Language Sciences (Department of Computational Linguistics)</u> <i>Statistics with R (only taught in winter terms 2016 and 2017), 2 hours</i>
----------	---

Lectures

B.A. Psychology:

General Psychology: Language (2 hours)

ADMINISTRATIVE & DEPARTMENTAL WORK

since 2022	Site host for <i>Studienplattform</i> (website for advertisement and participation in studies conducted at Psychology)
2020-2021	Site Host for 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 th year Psych students
since 2021	Contributor of the CRC group <i>PLEAD</i>
since 2018	Website maintenance for the Lifespan Cognition Lab using Typo3 (https://www.uni-saarland.de/lehrstuhl/kray.html)

AD-HOC REVIEWING

PLOS ONE, Psychophysiology, Aging, Neuroscience & Cognition, International Journal of Psychophysiology; Language, Cognition & Neuroscience; Scientific Reports; Psychology & Aging; Memory & Cognition; Journal of Speech Language Hearing Sciences

MENTORING & ADVISING

2023	<i>Defending your PhD Thesis</i> (workshop held at the CRC 1102-hosted Phd Day, co-taught with Merel Scholman)
Since 2022	PI Mentor within the CRC 1102
2020-2022	Founder & organizer of the mentoring program <i>Postdocs for PhDs</i> (informal bi-weekly meetings on PhD-related topics)
Since 2019	Supervision of BA and MA theses in Psychology

MEMBERSHIPS

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

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

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