

Katja I. Haeuser

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SFB 1102 *Information Density & Linguistic Encoding*
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ACADEMIC EMPLOYMENT

since 08/2022	Principal Investigator <i>SFB 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 <i>SFB 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, <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 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, <i>Bachelor of Arts</i> English & Intercultural Communication

TALKS

2025	Haeuser, K. I. (2025). How prediction affects memory. Invited Talk held at the SLHS Research Colloquium, October 27 th , Purdue University, Lafayette, IN, USA.
2025	Haeuser, K.I. (2025). Prediction adapts to prediction error in a non-linear fashion – that’s why adaptation effects are so difficult to detect using LMERS. Talk held at the 31 st <i>Architectures and Mechanisms of Language Processing Conference</i> , September 3- 6, Prague, Czechia.
2025	Haeuser, K. I. (2025). Effects of prediction in the moment and meyond. Keynote held at the 45 th <i>TABU Dag Conference</i> , June 12-13, Groningen, The Netherlands.
2025	Haeuser K. I. & Kray, J. (2025). Totally off: Older adults misjudge the veracity of their memory contents. Talk held at the <i>Aging & Cognition Conference</i> , May 7-10, Pavia, Italy.
2024	Haeuser, K. I. (2024). Form prediction and competitor suppression in sentence reading: Evidence from German. Talk held at the 37 th <i>Annual conference on Human Sentence Processing</i> , May 16-18, Ann Arbor, MI, USA.

- 2023 Haeuser, K. I. (2023). *Effects of Prediction In the Moment and Beyond*. Invited Talk held at the Psycholinguistics and Cognitive Modeling Group, Department of Linguistics, Stuttgart University, December 7th, Stuttgart, Germany.
- 2023 Haeuser, K. I. (2023). *Individual What? Measuring Individual Differences in Psycholinguistic Research*. Talk held at the MetaLing Workshop at Otto-Friedrich University Bamberg, November 10th, Bamberg, Germany.
- 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 36th 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

- 2025 Haeuser, K. I. & Grüter, T. (2025). Reduced false memory effects for predictable words in L2 speakers of German: Evidence from Self-Paced Reading and Recognition Memory. *Applied Psycholinguistics*, 46, e26.
- 2025 Haeuser, K.I. & Kray, J. (2025). Not so SUBTLE(X): Word frequency estimates and their fit to sentential reading times in interaction with predictability. *Linguistics – An Interdisciplinary Journal of the Language Sciences*.
- 2025 Haeuser, K. I., & Borovsky, A. (2025). Got it right up front? Further evidence for parallel graded prediction during prenominal article processing in a self-paced reading study. *Glossa Psycholinguistics*, 4(1), 1–40.

- 2024 Haeuser, K. I., & Kray, J. (2024). Age differences in context use during reading and downstream effects on recognition memory. *Psychology & Aging, 9*(7), 715-730.
- 2024 Haeuser, K. I., & Borovsky, A. (2024). Predictive processing suppresses form-related words with overlapping onsets. In L. K. Samuelson, S. L. Frank, M. Toneva, A. Mackey, & E. Hazeltine (Eds.), *Proceedings of the 46th Annual Conference of the Cognitive Science Society*. Rotterdam (The Netherlands): Cognitive Science Society.
- 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: Pupilometry 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

- 2024 Haeuser, K. I. (2024). Is false remembering of predictable words really driven by “prediction”? Maybe not. Poster presentation at the 30th *Annual Architectures and Mechanisms of Language Processing Conference*, September 5-7, Edinburgh, UK.
- 2024 Haeuser, K. I. & Grüter, T. (2024). Does reduced engagement in prediction lead to fewer false memories of predictable words in L2? Poster presentation at the 5th *International Symposium on Bilingual and L2 Processing in Adults and Children*, May 23-14, Swansea, Wales, UK.
- 2024 Haeuser, K. I. (2024). False memories for predictable words are not a consequence of prediction but backward semantic association: Evidence from German. Poster presentation at the 37th *Annual conference on Human Sentence Processing*, May 16-18, Ann Arbor, MI, USA.
- 2023 Haeuser, K. I. (2023). Aging increases false remembering for words predicted but not seen. Poster presentation at the *Annual*

Architectures and Mechanisms of Language Processing Conference, August 31st- September 2nd, Donostia/San Sebastian, Spain.

- 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 of 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)
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RESEARCH FUNDING

2024	Saarland University Start-Up Grant (€ 13.512)
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; € 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

Lectures	<u>Bachelor of Science Psychology:</u> <i>Allgemeine Psychologie (VL; since 2020)</i>
Seminars	<u>Master of Science Psychology</u> <i>Angewandte und Kognitive Entwicklungs- und Pädagogische Psychologie Seminar (Seminar; since 2022)</i> <i>Psychologie der Lebensspanne (Seminar; since 2024))</i> <u>Bachelor of Science Psychology:</u> <i>Kognition Lernen & Entwicklung II (2022 & 2023)</i> <i>Empirisches Projektmodul (Seminar; since 2018)</i> <i>Einführung in die Psychologie (Seminar; since 2019)</i> <u>Bachelor of Science Language Sciences (Department of Computational Linguistics)</u>

SUPERVISION

Bachelor's Theses

Anita Tobi (B.Sc). *Young, Old and Aging:
A Comparison of False Memories in Language Prediction*

Alena Niesen (B.Sc). *Das Phänomen der falschen Erinnerungen:
Bestehen widerlegte Erwartungen fort?*

Luzi Warnatsch (B.Sc). *Erstens kommt es anders, und zweitens als
man denkt: Eine Self-Paced-Reading Studie zum Effekt von
Schemakonsistenzverletzungen auf die Lesezeit von Nomen*

Alexander Gehn (B.Sc). *Können forward und backward
Assoziationsstärken Reaktionszeitunterschiede im Lexical Decision
Task erklären?*

Pascal Kinsinger (B.Sc). *Falsche Erinnerungen im Fluss der Zeit.*

Geraldine Müller (B.Sc). *Eine Neuauflage des deutschen Author-
Recognition Tests.*

Johanna Mauer (B.Sc). *Idiomverarbeitung: Eine Lesezeitenstudie.*

Lasse Brunstein (B.Sc). *Falsche Erinnerungen aufgrund des
Satzkontextes: Ein Vergleich zwischen MuttersprachlerInnen und
Bilingualen*

Lara Wiederhold (B.Sc). *Haven't I Seen You Before? On False
Memory Effects of Semantic and Phonological Lures.*

Master's Theses

Celina Rolgeiser (M.Sc). *Untersuchung der kognitiven
Repräsentation von vorhersagebedingten falschen Erinnerungen:
Bleibt neben der Semantik auch die Wortform der Vorhersage
erhalten?*

Lara Frey-Wiederhold (ongoing). *Leise und laut lesen: Sind falsche
Erinnerungen für form-basierte Eigenschaften bei Sprachproduktion
erhöht?*

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.
2020-2024	Organizer of award ceremony for outstanding BA and MA theses in Psychology.
since 2021	Contributor of the CRC group <i>PLEAD (Psycholinguistic Experiment and Design)</i> .
since 2018	Website maintenance for the Lifespan Cognition Lab using Typo3 (https://www.uni-saarland.de/lehrstuhl/kray.html)

AD-HOC REVIEWING

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

MENTORING & ADVISING

2024	<i>Writing: No more writer's block!</i> (Workshop held at the CRC 1102-hosted Phd Day, co-taught with Dr. Merel Scholman)
2023	<i>Defending your PhD Thesis</i> (Workshop held at the CRC 1102-hosted Phd Day, co-taught with Dr. Merel Scholman)

Since 2022	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)

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.

LANGUAGES

German	native
English	fluent