**Katja I. Haeuser**

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 InvestigatorSFB *Information Density & Linguistic Encoding* Project A5, *The role of language experience and surprisal in learning and memory (*[*link to my project*](https://sfb1102.uni-saarland.de/projects)*)* |
| 08/2018 – present | Researcher & Lecturer *Department of Psychology*  Saarland University, Germany  Associated member SFB *Information Density & Linguistic Encoding* |
| 09/2016 – 07/2018 | Postdoctoral researcher SFB *Information Density & Linguistic Encoding*, Project A4: Language Comprehension and Cognitive Control Demands. PIs: Vera Demberg (Computational Linguistics) & Jutta Kray (Psychology)  *Department of Computational Linguistics*  Saarland University, Germany |
| 04/2016 – 08/2016 | Postdoctoral researcher *Department of Linguistics*  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 |

|  |  |
| --- | --- |
| 2024 | Haeuser, K. I. (2024). Form prediction and competitor suppression in sentence reading: Evidence from German. Talk held at the *37th Annual conference on Human Sentence Processing*, 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 |

|  |  |
| --- | --- |
| 2024 | Haeuser, K. I., & Kray, J. (2024). Age differences in context use during reading and downstream effects on recognition memory. *Psychology & Aging*. |
| 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: 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 |

|  |  |
| --- | --- |
| 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 Scolar 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 *The Role of Language Experience and Surprisal for Learning and Memory* 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 | M.A. Psychology:  *Prediction and Memory (research seminar, 2 hours)*  *False memory (research seminar, 2 hours)*  B.A. Psychology:  *Introduction to Psychology (practical research seminar, 2 hours)*  *Predictive Language Processing (research seminar, 2 hours)*  *Research Practice Seminar (practical research seminar, 4 hours)*  B.A. Language Sciences (Department of Computational Linguistics)  *Statistics with R* (only taught in winter terms 2016 and 2017), 2 hours |
| Lectures | B.A. Psychology:  *General Psychology: Language (2 hours)* |

|  |
| --- |
| Administrative & Departmental Work |

|  |  |
| --- | --- |
| since 2022 | Site host for *Studienplattform* (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 4th year Psych students |
| since 2021 | Contributor of the CRC group *PLEAD* |
| 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 | *Defending your PhD Thesis* (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 *Postdocs for PhDs* (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 *Exzellenzprogramm für Wissenschaftlerinnen* (duration: 4 years): competitive program that supports young female academics by means of coachigs 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 analyis |
| Typo3 | website maintenance & administration |