

Professor Dr. Barbara Kaup

born October 10, 1969
female

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FB Psychologie
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Position: Full Professor (W3) of Cognitive Psychology

Children: three children, born 2001, 2003, 2007, parental leave 2002–2003; 2007–2008

Academic Education

1989 – 1994 Studied Psychology (Diplom) at the TU Berlin
Adviser of final thesis: Klaus Eyferth

Degrees

2007 Habilitation, TU Berlin
Subject: Psychology
Mentors: Elke van der Meer and Helmut Jungermann

1999 PhD in Psychology, TU Berlin
Advisers: Stephanie Kelter, Christopher Habel, Helmut Jungermann

Career

since 2009 W3 Professor for Cognitive Psychology, Department of Psychology,
University of Tübingen

2022/2023 Visiting Professor at Harvard, Cambridge, USA, host: Prof. Jesse Snedeker;
Visiting Professor at UniSA, Adelaide, Australia, hosts: Prof. Ina Bornkessel-
Schlesewsky and Prof. Matthias Schlewsky

2017/2018 Visiting Professor at the University of California, San Diego, CA, USA, host:
Prof. Benjamin Bergen; Visiting Professor at the University of Victoria, BC,
Canada, host: Prof. Daniel Bub

2013/2014 Visiting Professor at the University of Otago (NZ), host: Prof. Jeffrey Miller

2003 – 2009 Head of the Emmy-Noether Junior Research Group “Zur Psycholinguistik
von Negation”, TU Berlin

1999 – 2002 Visiting Assistant in Cognitive Science, Florida State University,
Tallahassee, USA

1996 – 1999 Lecturer at the research area “Knowledge and Language Processing”,
Department of Computer Science, University of Hamburg

1994 – 1996 Research officer in the DFG project “Nonverbale Kognition und
Textverstehen” (PIs: Stefanie Kelter and Christopher Habel), University of
Hamburg

Miscellaneous

Since 2021	Head of Department, Psychology, University of Tübingen
since 2020	Speaker of the Research Unit 2718 "Modal and Amodal Cognition: Functions and Interactions". (German Research Foundation)
Since 2018	Deputy Chairperson of the Wilhelm-Wundt Gesellschaft
since 2015	Member of the Editorial Board for <i>Discourse Processes</i>
since 2014	Fellow of the Psychonomic Society
since 2013	Member of the Advisory Board of the Hermann-Paul-Center for Linguistics, Freiburg University
since 2010	Member of AcademiaNet (Robert Bosch Foundation)
2020 - 2022	President of the German Society of Cognitive Science
2018 – 2020	Vice-President of the German Society of Cognitive Science
2013– 2022	Member of the Managing Board of the SFB 833 "The Construction of Meaning"
2013 – 2018	Member of the Election Committee of the <i>Heinz Maier-Leibnitz Prize</i> of the DFG
2013 – 2017	Member of the <i>Steering Committee</i> of the DFG-Priority-Program "XPrag.de"
2010 – 2014	Dean of Studies for B.Sc. Psychology and B.Sc. Cognitive Science
1992 – 1994	Funded by the German Academic Scholarship Foundation (Studienstiftung des Deutschen Volkes)

Grants

2020-2026	German Research Foundation: "Coordination" (Project C in RU 2718) [~€ 1.400.000]
2020-2026	German Research Foundation: "Abstraction Processes in Associative learning" (Project A3 in RU 2718; Co-PIs: Mandy Hütter & Michael Ramscar) [~€ 580.000]
2020-2026	German Research Foundation: "Distance-dependent Representational Format" (Project A6 in RU 2718; Co-PIs Hanspeter Mallot & Rolf Ulrich) [~€ 960.000]
2013-2021	German Research Foundation: 'One- vs. Two-step models of comprehension: Investigations involving negative sentences' (Project in the Priority Program XPrag.de; Co-PI: H. Leuthold; since 2017 Co-PI: C. Dudschig) [~ € 600.000]
2009-2021	German Research Foundation: 'Central Support on Experimentation and IT Maintenance' (Project Z2 in the SFB 833; Co-PI: S. Beck) [~ € 850.000]
2009-2021	German Research Foundation: 'The experiential simulations view of comprehension: How is meaning composed? ' (Project B4 in the SFB 833; since 2013 Co-PI: H. Leuthold) [~ € 950.000]
2003-2009	German Research Foundation: Emmy Noether Group 'The Psycholinguistics of Negation' (Ka 1389-1/1; Ka 1389-1/2; Ka 1389-1/3) [~ € 650.000]

Selected Publications

- Bausenhart, K., Ulrich, R. & Kaup, B.** (accepted). Association between abstraction level and time: Are future and past more abstract than the present? *Quarterly Journal of Experimental Psychology*.
- Albu, E., Dudschig, C., Warren, T., & Kaup, B.** (2023). Does Negation Influence the Choice of Sentence Continuations? Evidence from a Four-Choice Cloze Task. *Quarterly Journal of Experimental Psychology*.
- Capuano, F., Claus, B., & Kaup, B.** (2023). The Experiential Basis of Compatibility Effects in Reading-by-Rotating Paradigms. *Psychological Research*, *87*, 124-136
- Capuano, F., Sorg, T., & Kaup, B.** (2023). Activation levels of plausible alternatives in conversational negation. *Memory & Cognition*, 1-12.
- Dudschig, C., Kaup, B., & Mackenzie, I. G.** (2023). The grounding of logical operations: The role of color, shape and emotional faces for "yes" and "no" decisions. *Journal of Experimental Psychology: Learning, Memory and Cognition*, *49*(3), 477–492.
- Kaup, B., Ulrich, R., Bausenhart, K. M. et al.** (2023). Modal and amodal cognition: an overarching principle in various domains of psychology. *Psychological Research*.
- Reichmann, K., Hütter, M., Kaup, B., & Ramscar, M.** (2023). Variability and abstraction in evaluative conditioning: Consequences for the generalization of likes and dislikes. *Journal of Experimental Social Psychology*, *108*, 104478.
- Schütt, E., Dudschig, C., Bergen, B. K., & Kaup, B.** (2023). Sentence-based mental simulations: Evidence from behavioral experiments using garden-path sentences. *Memory & Cognition*, *51*(4), 952-965.
- Schütt, E., Mackenzie, I. G., Kaup, B., & Dudschig, C.** (2023). Replacing vertical actions by mouse movements: A web-suited paradigm for investigating vertical spatial associations. *Psychological Research*, *87*(1), 194-209.
- Schütt, E., Mackenzie, I. G., Kaup, B., & Dudschig, C.** (2023). Replacing vertical actions by mouse movements: a web-suited paradigm for investigating vertical spatial associations. *Psychological Research*, *87*, 194-209.
- Ulrich, R., de la Vega, I., Eikmeier, V., Günther, F., & Kaup, B.** (2023). Mental association of time and valence. *Memory & Cognition*, 1-15.
- van den Hoek Ostende, M. M., Schwarz, U., Gawrilow, C., Kaup, B., & Svaldi, J.** (2023). Practice makes perfect: Restrained eaters' heightened control for food images. *European Eating Disorders Review*, 1–9.
- Capuano, F., Dudschig, C., & Kaup, B.** (2022). Using circles games to investigate the referential use of negation. *Language, Cognition and Neuroscience*, 1-12.
- Günther, F., Press, S. A., Dudschig, C., & Kaup, B.** (2022). The limits of automatic sensorimotor processing during word processing: Investigations with repeated linguistic experience, memory consolidation during sleep, and rich linguistic learning contexts. *Psychological Research*, *86*, 1792–1803.
- Rück, F., Dudschig, D., Mackenzie, I.G., Leuthold, H., & Kaup, B.** (2022). Following negative search instructions: The role of visual context. *Language and Cognition*, *14*, 479-499.
- Vogt, A., Kaup, B., & Abdel Rahman, R.** (2023). Experience-driven meaning affects lexical choices during language production. *Quarterly Journal of Experimental Psychology*, *76*(7), 1561-1584.
- Winter, A., Dudschig, C., Miller, J., Ulrich, R. & Kaup, B.** (2022). The action-sentence compatibility effect (ACE): Meta-analysis of a benchmark finding for embodiment. *Acta Psychologica*, *230*, Article 103712.

- Albu, E., Tsaregorodtseva, O., & Kaup, B.** (2021). Contrary to expectations: Does context influence the processing cost associated with negation? *Journal of Psycholinguistic Research*, 50, 1215-1242.
- Capuano, F., Dudschig, C., Günther, F., & Kaup, B.** (2021). Semantic similarity of alternatives fostered by conversational negation. *Cognitive Science*, 45, e13015
- Clifton, C., Frazier, L., & Kaup, B.** (2021). Negative clauses imply affirmative topics and affirmative antecedents. *Journal of Psycholinguistic Research*, 50, 1261-1282.
- Dudschig, C., & Kaup, B.** (2021). Pictorial vs. linguistic negation: Investigating negation in imperatives across different symbol domains. *Acta Psychologica*, 214, 103266.
- Dudschig, C., Kaup, B., Svaldi, J., & Gulewitsch, M. D.** (2021). Negation processing in children with ADHD: The generic problem of using negation in instructions. *Journal of Psycholinguistic Research*, 50, 1309-1320.
- Kaup, B., Scherer, N., & Ulrich, R.** (2021). Associations between abstract concepts: Investigating the relationship between deictic time and valence. *Frontiers in Psychology*, 12.
- Rück, F., Dudschig, C., Mackenzie, I.G., Vogt, A., Leuthold, H., & Kaup, B.** (2021). The role of predictability during negation processing in truth-value judgement tasks. *Journal of Psycholinguistic Research*, 50, 1437-1454.
- Berndt, E., Dudschig, C., & Kaup, B.** (2020). Green as a cbemcuru: Modal as well as amodal color cues can help to solve anagrams. *Psychological Research*, 84, 491-501
- Dudschig, C. & Kaup, B.** (2020). Can we prepare to negate? Negation as a reversal operator. *Journal of Cognition*, 3, 32.
- Dudschig, C. & Kaup, B.** (2020). Negation as conflict: Conflict adaptation following negating vertical spatial words. *Brain and Language*, 210, 104842.
- Günther, F., Nguyen, T., Chen, L., Dudschig, C., Kaup, B., & Glenberg, A. M.** (2020). Immediate sensorimotor grounding of novel concepts learned from language alone. *Journal of Memory and Language*, 115, 104172.
- Kaup, B., & Dudschig, C.** (2020). Understanding negation: Issues in the processing of negation. In V. Deprez & T. Espinal (Eds.), *The Oxford Handbook of Negation* (pp. 635-655). Oxford: Oxford University Press.
- Miller, J., & Kaup, B.** (2020). Influences of task and attention on action verb congruence effects: How automatic are embodiment effects? *Acta Psychologica*, 210, 103155.
- Berndt, E., Dudschig, C., Miller, J., & Kaup, B.** (2019). A replication attempt of hemispheric differences in semantic-relatedness judgments (Zwaan & Yaxley, 2003). *Acta Psychologica*, 198, 102871.
- Bryant, D., Bischoff, H., Ahlberg, D. & Kaup, B.** (2019) Zur Rolle sensomotorischer Repräsentationen beim Verarbeiten räumlicher Präpositionen in der Erst- und Zweitsprache. In B. Lubke & E. Liste Lamas (Eds.), *Raumrelationen im Deutschen: Kontrast, Erwerb und Übersetzung* (pp. 25-41). Tübingen: Stauffenburg.
- Strozyk, J. V., Dudschig, C., & Kaup, B.** (2019). Do I need to have my hands free to understand hand-related language? Investigating the functional relevance of experiential simulations. *Psychological Research*, 83, 406-418.
- Vogt, A., Kaup, B. & Dudschig, C.** (2019). When words are upside down: Language–space associations in children and adults. *Journal of Experimental Child Psychology*, 186, 142-158.
- Ahlberg, D. K., Bischoff, H., Kaup, B., Bryant, D., & Strozyk, J. V.** (2018). Grounded cognition: Comparing Language x Space interactions in first language and second language. *Applied Psycholinguistics*, 39, 437-459.

- Berndt, E., Dudschig, C., & Kaup, B.** (2018). Activating concepts by activating experiential traces: Investigations with a series of anagram solution tasks. *Quarterly Journal of Experimental Psychology*, *71*, 483-498.
- Dudschig, C., & Kaup, B.** (2018). How does "not left" become "right"? Electrophysiological evidence for a dynamic conflict-bound negation processing account. *Journal of Experimental Psychology: Human Perception and Performance*, *44*, 716-728
- Dudschig, C., Mackenzie, I. G., Leuthold, H., & Kaup, B.** (2018). Environmental sound priming: Does negation modify N400 cross-modal priming effects?. *Psychonomic Bulletin & Review*, *25*, 1441-1448.
- Dudschig, C., Mackenzie, I. G., Maienborn, C., Kaup, B., & Leuthold, H.** (2018). Negation and the N400: investigating temporal aspects of negation integration using semantic and world-knowledge violations. *Language, Cognition and Neuroscience*, *34*, 309-319.
- Günther, F., Dudschig, C., & Kaup, B.** (2018). On symbol grounding without direct experience: Do words inherit sensorimotor activation from purely linguistic context? *Cognitive Science*, *42*, 336-374.
- Miller, J., Brookie, K., Wales, S., Wallace, S., & Kaup, B.** (2018). Embodied cognition: Is activation of the motor cortex essential for understanding action verbs? *Journal of Experimental Psychology: Learning, Memory and Cognition*, *44*, 335-370.
- de la Vega, I., Eikmeier, V., Ulrich, R., & Kaup, B.** (2017). The mental timeline in a crossed-hands paradigm. *Experimental Psychology*, *63*, 326-332.
- Dudschig, C. & Kaup, B.** (2017). Is it all task-specific? The role of binary responses, verbal mediation and saliency for eliciting language-space associations. *Journal of Experimental Psychology: Learning, Memory and Cognition*, *43*, 259-270.
- Kaup, B., & Dudschig, C.** (2017). Sätze und Texte verstehen und produzieren. In Jochen Müsseler & Martina Rieger (Eds.), *Allgemeine Psychologie* (pp. 467-530). Berlin: Springer.
- Kaup, B., & Ulrich, R.** (2017). Die Beziehung zwischen sprachlicher und nicht-sprachlicher Kognition: Die Bedeutung von Repräsentationsformaten. *Psychologische Rundschau*, *68*, 115-130.
- Öttl, B., Dudschig, C., & Kaup, B.** (2017). Forming associations between language and sensorimotor traces during novel word learning. *Language and Cognition*, *9*, 156-171.
- Wolter, S., Dudschig, C., & Kaup, B.** (2017). Reading sentences describing high- or low-pitched auditory events: Only pianists show evidence for a horizontal space-pitch association. *Psychological Research*, *81*, 1213-1223.
- de la Vega, I., Eikmeier, V., Ulrich, R., & Kaup, B.** (2016). The Mental Timeline in a Crossed-Hands Paradigm. *Experimental Psychology*, *63*, 326-332.
- Dudschig, C., Mackenzie, I., Strozyk, J., Kaup, B., & Leuthold, H.** (2016). The sound of sentences: Differentiating the influence of physical sound, sound imagery, and linguistically implied sounds on physical sound processing. *Cognitive, Affective, and Behavioral Neuroscience*, *16*, 940-961.
- Dudschig, C., Maienborn, C., & Kaup, B.** (2016). Is there a difference between stripy journeys and stripy ladybirds? The N400 response to semantic and world-knowledge violations during sentence processing. *Brain and Cognition*, *103*, 38-49.
- Dudschig, C., Maienborn, C., & Kaup, B.** (2016). These lemons are sour: Investigating the influence of demonstrative determiners on the N400 complex. *Neuroscience Letters*, *630*, 141-146.
- Günther, F., Dudschig, C., & Kaup, B.** (2016). Latent semantic analysis cosines as a cognitive similarity measure: Evidence from priming studies. *Quarterly Journal of Experimental Psychology*, *69*, 626-653.

- Günther, F., Dudschig, C., & Kaup, B.** (2016). Latent semantic analysis cosines as a cognitive similarity measure: Evidence from priming studies. *Quarterly Journal of Experimental Psychology*, *69*, 626-653.
- Kaup, B., de la Vega, I., Strozyk, J., & Dudschig, C.** (2016). The role of sensorimotor processes in meaning composition. In M. H. Fischer & Y. Coello (Eds.), *Foundations of Embodied Cognition (Vol. 2): Conceptual and Interactive Embodiment* (pp. 46-70). London, UK: Routledge.
- Lachmair, M., Dudschig, C., de la Vega, I., & Kaup, B.** (2016). Constructing meaning for up and down situated sentences: Is a sentence more than the sum of its words? *Language and Cognition*, *8*, 604-628.
- de la Vega, I., Graebe, J., Härtner, L., Dudschig, C., & Kaup, B.** (2015). Starting off on the right foot: Strong right-footers respond faster with the right foot to positive words and with the left foot to negative words. *Frontiers in Psychology*, *6*, 292.
- Dudschig, C., de la Vega, I., & Kaup, B.** (2015). To fly or not to fly? The automatic influence of negation on language–space associations. *Cognitive Processing*, *16*, 203-207.
- Dudschig, C., de la Vega, I., & Kaup, B.** (2015). What's up? Emotion-specific activation of vertical space during language processing. *Acta Psychologica*, *156*, 143–155.
- Günther, F., Dudschig, C., & Kaup, B.** (2015). LSAfun - An R package for computations based on Latent Semantic Analysis. *Behavior Research Methods*, *47*(4), 930-944.
- Öttl, B., Jäger, G., Kaup, B.** (2015). Does formal complexity reflect cognitive complexity? Investigating aspects of the Chomsky hierarchy in an artificial language learning study. *PLoS ONE* *10*(4): e0123059.
- Ulrich, R., Maienborn, C., & Kaup, B.** (2015). Understanding the meaning of words and sentences: The role of non-linguistic processes. *Acta Psychologica*, *156*, 97.
- Wolter, S., Dudschig, C., de la Vega, I., & Kaup, B.** (2015). Musical metaphors: Evidence for a spatial grounding of non-literal sentences describing auditory events. *Acta Psychologica*, *156*, 126–135.
- de la Vega, I., Dudschig, C., Lachmair, M., & Kaup, B.** (2014). Being *someone's right hand* doesn't always feel right: Bodily experiences affect metaphoric language processing. *Language, Cognition and Neuroscience*, *29*, 1227-1232.
- Dudschig, C., de la Vega, I., & Kaup, B.** (2014). Embodiment and second-language: Automatic activation of motor responses during processing spatially associated L2 words and emotion L2 words in a vertical Stroop paradigm. *Brain and Language*, *132*, 14-21.
- Dudschig, C., de la Vega, I., De Filippis, M., & Kaup, B.** (2014). Language and vertical space: On the automaticity of language action interconnections. *Cortex*, *58*, 151-160.
- Lachmair, M., Dudschig, C., de la Vega, I., & Kaup, B.** (2014). Relating numeric cognition and language processing: Do numbers and words share a common representational platform? *Acta Psychologica*, *148*, 107-114.
- Michel, C. W., Ray, D. G., Kaup, B., & Hesse, F.** (2014). Perspective image comprehension depends on both visual and proprioceptive information. *Attention, Perception, & Psychophysics*, *76*, 2477-2484.
- de la Vega, I., De Filippis, M., Dudschig, C., Lachmair, M., & Kaup, B.** (2013). Keep your hands crossed: The valence-by-left/right interaction is related to hand, not side, in an incongruent hand – response key assignment. *Acta Psychologica*, *142*, 273-277.
- Dudschig, C., Souman, J., Lachmair, M., de la Vega, I., & Kaup, B.** (2013). Reading "sun" and looking up: The influence of language on the planning of saccadic eye movements. *PLoS ONE* *8*(2): e56872.

- de la Vega, I., De Filippis, M., Lachmair, M., Dudschig, C., & Kaup, B.** (2012). Emotional valence and physical space: Limits of interaction. *Journal of Experimental Psychology: Human Perception and Performance*, *38*, 375-385.
- Dudschig, C., Lachmair, M., de la Vega, I., De Filippis, M., & Kaup, B.** (2012). Do task-irrelevant direction-associated motion verbs affect action planning? Evidence from a Stroop paradigm. *Memory & Cognition*, *40*(7), 1081-1094.
- Kelter, S. & B. Kaup** (2012). Conceptual knowledge, categorization, and meaning. In C. Maienborn, K. von Heusinger & P. Portner (Eds.), *Semantics. An International Handbook of Natural Language Meaning. Volume 3 (HSK 33.3)*, 2775-2805. Berlin: de Gruyter.
- Lachmair, M., Dudschig, C., De Filippis, M., de la Vega, I., & Kaup, B.** (2011). Root versus roof: Automatic activation of location information during word processing. *Psychonomic Bulletin & Review*, *18*, 1180-1188.
- Kaup, B., Lüdtke, J., & Maienborn, C.** (2010). "The drawer is still closed": Simulating past and future actions when processing sentences that describe a state. *Brain and Language*, *112*, 159-166.
- Schindele, R., Lüdtke, J., & Kaup, B.** (2008). Comprehending negation: A study with adults diagnosed with high functioning autism or Asperger's syndrome. *Journal of Intercultural Pragmatics*, *5*, 421-444.
- Lüdtke, J., Friedrich, C., De Filippis, M., & Kaup, B.** (2008). ERP correlates of negation. *Journal of Cognitive Neuroscience*, *20*, 1355-1370.
- Chow, H. M., Kaup, B., Raabe, M., & Greenlee, M. W.** (2008). Evidence of fronto-temporal interactions for strategic inference processes during language comprehension. *NeuroImage*, *40*, 940-954.
- Kaup, B., Yaxley, R.H., Madden, C. J., Zwaan, R. A., & Lüdtke, J.** (2007). Experiential simulation of negated text information. *Quarterly Journal of Experimental Psychology*, *60*, 976-990.
- Kaup, B., Lüdtke, J., & Zwaan, R. A.** (2006). Processing negated sentences with contradictory predicates: Is a door that is not open mentally closed? *Journal of Pragmatics*, *38*, 1033-1050.
- Dijkstra, K. & Kaup, B.** (2005). Mechanisms of autobiographical memory retrieval in younger and older adults. *Memory & Cognition*, *33*, 811-820.
- Kelter, S., Kaup, B., & Claus, B.** (2004). Representing a described sequence of events: A dynamic view of narrative comprehension. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *30*, 451-464.
- Kaup, B. & Zwaan, R. A.** (2003). Effects of negation and situational presence on the accessibility of text information. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *29*, 439-446.
- Kaup, B., Kelter, S. & Habel, C.** (2002). Representing referents of plural expressions and resolving plural anaphors. *Language and Cognitive Processes*, *17*, 405-450.
- Kaup, B.** (2001). Negation and its impact on the accessibility of text information. *Memory & Cognition*, *20*, 960-967.