

List of Publications

(by year of publication)

Peer-reviewed Journals

1. Bhandari, P., Demberg, V., & **Kray, J.** (2021). Semantic predictability facilitates comprehension of degraded speech in a graded manner. *Frontiers in Psychology*, 3769.
2. 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.
3. **Kray, J.**, Kreis, B. K., & Lorenz, C. (2021). Age differences in decision making under known risk: The role of working memory and impulsivity. *Developmental Psychology*, 57(2), 241–252. <https://doi.org/10.1037/dev0001132>
4. Tröger, J., Lindsay, H., Mina, M., Linz, N., Klöppel, S., **Kray, J.**, & Peter, J. (2021). Patients with amnesic MCI fail to adapt executive control when repeatedly tested with semantic verbal fluency tasks. *Journal of the International Neuropsychological Society*, 1-8.
5. Van Os, M., **Kray J.**, Demberg V. (2021). Mishearing as a side effect of rational language comprehension in noise. *Frontiers in Psychology*, 12.
6. Van Os, M., **Kray J.**, Demberg V. (2021) Recognition of minimal pairs in (un)predictive sentence context in two types of noise. *Proceedings of the 43rd Annual Meeting of the Cognitive Science Society* (pp. 2943-2949). Cognitive Science Society.
7. **Kray, J.**, Ferdinand, N. K., & Stenger, K. (2020). Training and transfer of cue updating in older adults is limited: Evidence from behavioral and neuronal data. *Frontiers in Human Neuroscience*, 14, 492.
8. Dörrenbächer, S., Wu, C., Zimmer, H., & **Kray, J.** (2020). Plasticity in brain activity dynamics after task-shifting training in older adults. *Neuropsychologia*, 136, 107285.
9. 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). Cognitive Science Society.
10. **Kray, J.**, Ritter, H., & Müller, L. (2020). The interplay between cognitive control and emotional processing in children and adolescents. *Journal of Experimental Child Psychology*, 193, 104795. <https://doi.org/10.1016/j.jecp.2019.104795>
11. Dörrenbächer, S., Schütz, C., Woirgardt, M., Wu, C. C., Zimmer, H. D., & **Kray, J.** (2019). Spatio-temporal neural changes after task-switching training in old age. *Frontiers in Aging Neuroscience*, 11, 267. doi: 10.3389/fnagi.2019.00267
12. Dörrenbächer, S. & **Kray, J.** (2019). The impact of game-based task-shifting training on motivation and executive control in children with ADHD. *Journal of Cognitive Enhancement*, 3, 64-84.
13. Haeuser, K., 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, 708. <https://doi.org/10.3389/fpsyg.2019.00709>
14. Lorenz, C., & **Kray, J.** (2019). Are mid-adolescents prone to risky decisions? The influence of task setting and individual differences in temperament. *Frontiers in Psychology*, 10, 1497. doi: 10.3389/fpsyg.2019.01497

15. Tröger, J., Linz, N., König, A., Robert, P., Alexandersson, J., Peter, Jessica, & **Kray, J.** (2019). Exploitation vs. Exploration - Computational temporal and semantic analysis explains semantic verbal fluency impairment in Alzheimer's disease. *Neuropsychologia*, *131*, 53-61.
16. Dörrenbächer, S. & **Kray, J.** (2018). Impairments in resource allocation and executive control in children with ADHD. *Clinical Child Psychology and Psychiatry*, *7*, <https://doi.org/10.1177%2F1359104518816115>
17. Gajewski, P.D., Ferdinand, N.K., Falkenstein, M., & **Kray, J.** (2018). Understanding sources of adult age differences in task switching: evidence from behavioral and ERP studies. *Neuroscience & Biobehavioral Reviews*, *19*, 255-275. DOI: 10.1016/j.neubiorev.2018.05.029
18. Haeuser, K., 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 & Aging*, *33*, 1168-1180.
19. **Kray, J.**, Schmitt, H., Lorenz, C., & Ferdinand, N.K. (2018). The influence of different kinds of incentives on decision-making and cognitive control in adolescent development: A review of behavioral and neuroscientific studies. *Frontiers in Psychology*, *9*, 768. DOI: 10.3389/fpsyg.2018.00768
20. Vogels, J., Demberg, V., & **Kray, J.** (2018). The index of cognitive activity as a measure of cognitive processing load in dual task settings. *Frontiers in Psychology*, *9*, 2276. doi: [10.3389/fpsyg.2018.02276](https://doi.org/10.3389/fpsyg.2018.02276)
21. Schmitt, H., **Kray, J.**, & Ferdinand, N.K. (2017). Does the effort of processing potential incentives influence the adaption of context updating in older adults? *Frontiers in Psychology*, *8*, 1969. DOI: 10.3389/fpsyg.2017.01969
22. Haeuser, K., Demberg, V., & **Kray, J.** (2017). 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.
23. **Kray, J.**, & Fehér, B. (2017). Age differences in the transfer and maintenance of practice-induced improvements in task switching: The impact of working-memory and inhibition demands. *Frontiers in Psychology*, *8*, 410. <http://doi.org/10.3389/fpsyg.2017.00410>
24. Ferdinand, N.K., & **Kray, J.** (2017). Does language help regularity learning? The influence of verbalizations on implicit sequential regularity learning and the emergence of explicit knowledge in children, younger and older adults. *Developmental Psychology*, *53*, 597-610.
25. Ferdinand, N.K., Becker, A.M.W., **Kray, J.**, & Gehring, W.J. (2016). Feedback processing in children and adolescents: Is there a sensitivity for processing rewarding feedback? *Neuropsychologia*, *82*, 31-38.
26. **Kray, J.**, Schmitt, H., Heintz, S., & Blaye, A. (2015). Does verbal labeling influence age differences in proactive and reactive cognitive control? *Developmental Psychology*, *51*, 378-391.
27. Schmitt, H., Ferdinand, N. K., & **Kray, J.** (2015). The influence of monetary incentives on context processing in younger and older adults: An event-related potential study. *Cognitive, Affective, and Behavioral Neuroscience*, *15*, 416-434.
28. Dörrenbächer, S., Müller, P. M., Tröger, J., & **Kray, J.** (2014). Dissociable effects of game elements on motivation and cognition in a task-switching training in middle childhood. *Frontiers in Psychology*, *5*, 1-22.
29. Unger, K., Greulich, B., & **Kray, J.** (2014). "Trick or treat": the influence of incentives on developmental changes in feedback-based learning. *Frontiers in Psychology*, *5*, 1-9.

30. Ferdinand, N. K., & **Kray, J.** (2014). Developmental changes in performance monitoring: How electrophysiological data can enhance our understanding of error and feedback processing in childhood and adolescence. *Behavioral Brain Research, 263*, 122-132.
31. Lucenet, J., Blaye, A., Chevalier, N., & **Kray, J.** (2014). Cognitive control and language across the life span: Does labeling improve reactive control? *Developmental Psychology, 50*, 1620-1627.
32. Schmitt, H., Ferdinand, N. K., & **Kray, J.** (2014). Age-differential effects on updating cue information: Evidence from event-related potentials. *Cognitive, Affective, and Behavioral Neuroscience, 14*, 1115-1131.
33. Schmitt, H., Wolff, M. C., Ferdinand, N. K., & **Kray, J.** (2014). Age differences in the processing of context information: Is it age or is it performance? *Journal of Psychophysiology, 28*, 202-214.
34. Ferdinand, N. K., & **Kray, J.** (2013). Age-related changes in processing positive and negative feedback: Is there a positivity effect for older adults? *Biological Psychology, 94*, 235-241.
35. **Kray, J.**, & Ferdinand, N. K. (2013). How to improve cognitive control in childhood development: Potentials and limits of cognitive interventions. *Child Development Perspectives, 7*, 121-125.
36. **Kray, J.**, Gaspard, H., Karbach, J., & Blaye, A. (2013). Developmental changes in using verbal self-cueing in task-switching situations: the impact of task practice and task-sequencing demands. *Frontiers in Psychology, 4*, 1-11.
37. Ferdinand, N. K., Mecklinger, A., **Kray, J.**, & Gehring, W. J. (2012). The processing of unexpected positive response outcomes in the mediofrontal cortex. *The Journal of Neuroscience, 32*, 12087-12092.
38. **Kray, J.**, Karbach, J., & Blaye, A. (2012). The influence of stimulus-set size on developmental changes in cognitive control and conflict adaptation. *Acta Psychologica, 140*, 119-128.
39. **Kray, J.**, Karbach, J., Haenig, S., & Freitag, C. (2012). Can task-switching training enhance executive control functioning in children with attention deficit/hyperactivity disorder? *Frontiers in Human Neuroscience, 5*, 1-9.
40. Unger, K., Heintz, S., & **Kray, J.** (2012). Punishment sensitivity modulates the processing of negative feedback but not error-induced learning. *Frontiers in Human Neuroscience, 6*, 1-6.
41. Unger, K., **Kray, J.**, & Mecklinger, A. (2012). Worse than feared? Failure induction modulates the electrophysiological signature of error monitoring during subsequent learning. *Cognitive, Affective, and Behavioral Neuroscience, 12*, 34-51.
42. Verschoor, S. A., Eenshuistra, R., **Kray, J.**, & Hommel, B. (2012). Explicit learning of arbitrary and non-arbitrary action-effect relations in adults and 4-year-olds. *Frontiers in Developmental Psychology, 2*, 1-6.
43. Eppinger, B., & **Kray, J.** (2011). To choose or to avoid: Age differences in learning from positive and negative feedback. *Journal of Cognitive Neuroscience, 23*, 41-52.
44. Herbert, M., Eppinger, B., & **Kray, J.** (2011). Younger but not older adults benefit from salient feedback during learning. *Frontiers in Psychology, 2*, 1-9.
45. Hommel, B., **Kray, J.**, & Lindenberger, U. (2011). Feature integration across the lifespan: Stickier stimulus-response bindings in children and older adults. *Frontiers in Psychology, 2*, 1-7.

46. Karbach, J., **Kray, J.**, & Hommel, B. (2011). Action-effect learning in early childhood: Does language matter? *Psychological Research*, 75, 334-340.
47. **Kray, J.** (2011). Potenziale und Grenzen der intellektuellen Leistungssteigerung durch kognitive Trainings: Eine Lebensspannenperspektive. *Suchttherapie*, 12, 173-177.
48. Eppinger, B., Herbert, M., & **Kray, J.** (2010). We remember the good things: Age differences in learning and memory. *Neurobiology of Learning and Memory*, 93, 515-521.
49. Karbach, J., Mang, S., & **Kray, J.** (2010). Transfer of verbal self-instruction training in older age. *Psychology and Aging*, 25, 677-683.
50. **Kray, J.**, Lucenet, J., & Blaye, A. (2010). Can older adults enhance task-switching performance by using verbal self-instructions? The influence of working-memory load and early learning. *Frontiers in Aging Neuroscience*, 2, 147.
51. Benoit, R. G., Werkle-Bergner, M., Mecklinger, A., & **Kray, J.** (2009). Adapting to changing memory retrieval demands: Evidence from event-related potentials. *Brain and Cognition*, 70, 123-135.
52. Eppinger, B., Mock, B., & **Kray, J.** (2009). Developmental differences in learning and error processing: Evidence from ERPs. *Psychophysiology*, 46, 1043-1053.
53. Karbach J., & **Kray, J.** (2009). How useful is executive control training? Age differences in near and far transfer of task-switching training. *Developmental Science*, 12, 978-990.
54. **Kray, J.**, Kipp, K., & Karbach, J. (2009). The development of selective inhibitory control: The influence of verbal labeling. *Acta Psychologica*, 130, 48-57.
55. Eppinger, B., **Kray, J.**, Mock, B., & Mecklinger A. (2008). Better or worse than expected? Aging, learning, and the ERN. *Neuropsychologia*, 46, 521-539.
56. Ferdinand, N. K., Mecklinger, A., & **Kray, J.** (2008). Error and deviance processing in implicit and explicit sequence learning. *Journal of Cognitive Neuroscience*, 20, 629-642.
57. **Kray, J.**, Eber, J., & Karbach, J. (2008). Verbal self-instructions in task switching: A compensatory tool for action-control deficits in childhood and old age? *Developmental Science*, 11, 223-236.
58. Eppinger, B., **Kray, J.**, Mecklinger, A., & John, O. (2007). Age differences in task switching and response monitoring: Evidence from ERPs. *Biological Psychology*, 75, 52-67.
59. Karbach, J., & **Kray, J.** (2007). Developmental changes in switching between mental task sets: The influence of verbal labeling in childhood. *Journal of Cognition and Development*, 8, 205-236.
60. **Kray, J.** (2006). Task-set switching under cue-based and memory-based switching conditions in younger and older adults. *Brain Research*, 1105, 83-92.
61. **Kray, J.**, Eenshuistra, R. M., Kerstner, H., Weidema, M., & Hommel, B. (2006). Language and action control: The acquisition of action goals in early childhood. *Psychological Science*, 17, 737-741.
62. **Kray, J.**, & Eppinger, B. (2006). Effects of associative learning on age differences in task switching. *Acta Psychologica*, 123, 187-203.
63. **Kray, J.**, Eppinger, B., & Mecklinger, A. (2005). Age differences in attentional control: An event-related potential approach. *Psychophysiology*, 42, 407-416.
64. Werkle, M., Mecklinger, A., **Kray, J.**, Meyer, P., & Duezel, E. (2005). The control of memory retrieval: Insight from event-related potentials. *Cognitive Brain Research*, 24, 599-614.

65. **Kray, J.**, Eber, J., & Lindenberger, U. (2004). Age differences in executive functioning across the lifespan: The role of verbalization in task preparation. *Acta Psychologica*, *115*, 143-165.
66. **Kray, J.**, Li, K. Z. H., & Lindenberger, U. (2002). Age-related changes in task-switching components: The role of task uncertainty. *Brain and Cognition*, *49*, 363-381.
67. Frensch, P. A., **Kray, J.**, & Buchner, A. (2000). Zur Unterscheidung "impliziten" und "expliziten" menschlichen Lernens: Historische Kontinuität eines Irrweges? *Zeitschrift für Psychologie*, *208*, 284-303. (Sonderband Deutschsprachiger Psychologie im 20. Jahrhundert: Rückblick und Ausblick).
68. **Kray, J.**, & Lindenberger, U. (2000). Adult age differences in task switching. *Psychology and Aging*, *15*, 126-147.

Books and Book Chapters

1. Karbach J., **Kray J.** (2021). Executive Function Training. In: Strobach T., Karbach J. (eds) *Cognitive Training*. Springer, Cham. https://doi.org/10.1007/978-3-030-39292-5_14.
2. **Kray, J.** & Dörrenbächer, S. (2019). The effectiveness of training in task switching: New insights and open issues from a lifespan view. In M. Bunting & J. Novick, *Cognitive Training*. Oxford: Oxford University Press.
3. **Kray, J.** (2018) *Entwicklungspsychologie: Ein Lehrbuch für Psychologiestudierende und –interessierte*. Berlin: Springer-Verlag.
4. **Kray, J.** & Schäfer, S. (2018). Mittlere Kindheit. In U. Lindenberger. & W. Schneider (Hrsg.), *Entwicklungspsychologie*. Weinheim: Beltz.
5. **Kray, J.** & Schneider, W. 2018). Selbstregulation, Metakognition und kognitive Kontrolle. In U. Lindenberger, & W. Schneider (Hrsg.), *Entwicklungspsychologie*. Weinheim: Beltz.
6. Karbach, J., & Kray, J. (2016). Executive functions. In Strobach, T., & Karbach, J. (Eds.), *Cognitive Training: An overview of features and applications*. Berlin: Springer Verlag.
7. Schmitt, H., & **Kray, J.** (2015). Cognitive Control and Self-regulation. In N.A. Pachana (Ed.) *Encyclopedia of Geropsychology*, (pp. 1-9), Springer Singapore. DOI: 10.1007/978-981-287-080-3_158-1
8. **Kray, J.**, & Ferdinand, N. K. (2014). Task switching and aging. In J. Grange, & G. Houghton (Eds.), *Task switching and cognitive control* (pp. 350-371). Oxford: Oxford University Press.
9. **Kray, J.** & Schäfer, S. (2012). Mittlere Kindheit. In U. Lindenberger. & W. Schneider (Hrsg.), *Entwicklungspsychologie* (S. 211-233). Weinheim: Beltz.
10. **Kray, J.** & Schneider, W. (2012). Selbstregulation, Metakognition und kognitive Kontrolle. In U. Lindenberger, & W. Schneider (Hrsg.), *Entwicklungspsychologie* (S. 457-476). Weinheim: Beltz.
11. Ferdinand, N. K., Weiten, A., Mecklinger, A., & **Kray, J.** (2010). Error-induced learning as a resource-adaptive process in young and elderly individuals. In M. Crocker & J. Siekmann (Hrsg.), *Resource-adaptive cognitive processes* (pp. 55-76). Berlin: Springer-Verlag.
12. **Kray, J.** & Eppinger, B. (2010). An event-related potential (ERP) approach to study cognitive control processes. In M. Crocker & J. Siekmann (Hrsg.), *Resource-adaptive cognitive processes* (pp. 77-93). Berlin: Springer-Verlag.
13. **Kray, J.** & Lindenberger, U. (2007). Fluide Intelligenz. In J. Brandtstädter & U. Lindenberger (Hrsg.), *Entwicklungspsychologie der Lebensspanne. Ein Lehrbuch* (S. 194-220). Stuttgart: Kohlhammer Verlag.
14. Kramer, A. F., & **Kray, J.** (2006). Aging and attention. In E. Bialystok & F. I. M. Craik (Eds.), *Lifespan cognition: Mechanisms of change* (pp. 57-69). Oxford: Oxford University Press.

15. Lindenberger, U. & **Kray, J.** (2005). Kognitive Entwicklung. In S.-H. Filipp & U. M. Staudinger (Eds.), *Entwicklungspsychologie des mittleren und höheren Erwachsenenalters* (S. 299-341). Göttingen: Hogrefe Verlag.
16. **Kray, J.**, & Frensch, P. A. (2002). A view from cognitive psychology: „g“ – (G)host in the correlation matrix? In R. J. Sternberg & E. L. Grigorenko (Eds.), *The general factor of intelligence: How general is it?* (pp. 183-220). Mahwah, NJ: Lawrence Erlbaum.
17. **Kray, J.** & Mecklinger, A. (2001). Chunking. In N. Perthes & J. Ruchatz. *Gedächtnis und Erinnerung. Ein interdisziplinäres Lexikon*. Reinbek: Rowohlt.
18. **Kray, J.** (2000). *Adult age differences in task switching: Components, generalizability, and modifiability*. Lengerich: Pabst Science Publishers.
19. Frensch, P. A., Lindenberger, U., & **Kray, J.** (1999). Imposing structure on an unstructured environment: Ontogenetic changes in the ability to form rules of behavior under conditions of low environmental predictability. In A. D. Friederici & R. Menzel (Eds.), *Learning: Rule extraction and representation* (pp. 139-162). Berlin: Walter de Gruyter & Co.

Public Communication

- Kray, J.** (2011). Gehirnjogging – Leistungssteigerung durch Training: Was ist möglich? *Epd-Dokumentation*, 20, 42-46.

Published Abstracts

1. Kreis, B. K., Lorenz, C., & Kray, J. (2020). „Dismantling Decision-Making under Known Risk in Adolescence - On the Influence of Incentive Value, Expected Value and Cognitive Abilities“. In *TeaP 2019: Abstracts of the 61st Conference of Experimental Psychologists, (Tagung Experimentell Arbeitender PsychologInnen) April, 15th to 17th, London, England, UK, p. 46*.
2. Kray, J., Ferdinand, N., & Stenger, K. (2018). Does task-switching training improve updating and resolving interference in older adults: Evidence from an ERP-Approach. *Psychophysiology*, 55, S112-S112.
3. Müller, L., Ritter, H., & Kray, J. (2018). Differential emotion-induced effects on the efficiency of cognitive control throughout adolescent development. In C. Schütz, A. Schubö, D. Endres & H. Lachnit (Hrsg.). *TeaP 2018: Abstracts of the 60th Conference of Experimental Psychologists*. Lengerich: Pabst Science Publishers, S. 182.
4. Lorenz, C. & Kray, J. (2018). Does peer observation specifically increase mid-adolescents risky decisions? In A.C. Schütz, A. Schubö, D. Endres, & H. Lachnit (Eds.) *TeaP 2018: Abstracts of the 60th Conference of Experimental Psychologists (TeaP)* (p. 160). Lengerich: Pabst Science Publishers.
5. Woirgardt, M., Ferdinand, N.K., & Kray, J. (2018). The influence of incentives on cognitive control: a developmental study. In A.C. Schütz, A. Schubö, D. Endres, & H. Lachnit (Eds.), *TeaP 2018: Abstracts of the 60th Conference of Experimental Psychologists* (pp. 297). Lengerich: Pabst Science Publishers.
6. Ferdinand, N.K., & Kray, J. (2017). How verbalizations influence implicit sequence learning and the emergence of explicit knowledge across the life span. In T. Goschke, A. Bolte, & C. Krischbaum (Eds.), *TeaP 2017: Abstracts of the 59th Conference of Experimental Psychologists* (pp. 144-145). Lengerich: Pabst Science Publishers.
7. Lorenz, C., Schmitt, H., Unger, K. & Kray, J. (2017). Developmental changes in risk-taking behavior: How important is known outcome probability? In M.H. Fischer, E. Sixtus, K. Werner, R. Engbert, M. Schröder-Abe, I. Wartenburger, C. Gianelli, A. Bürki, J. Laubrock,

& O. Lindemann (Eds.) *ESCoP 2017: Abstracts of the 20th Conference of the European Society for Cognitive Psychology* (pp. 122).

8. Lorenz, C., Schmitt, H., Unger, K. & Kray, J. (2017). Developmental changes in risk-taking behavior: How important is known outcome probability? In A. Weber (Ed.) *Tagungsband gemeinsame Tagung der Fachgruppen Entwicklungspsychologie und Pädagogische Psychologie (PAEPSY)* (pp. 417). Leck: CPI books GmbH.
9. Schmitt, H., Lorenz, C., Unger, K., & Kray, J. (2017). The interplay between cognitive control and emotion inhibition on goal-directed behavior across adolescent development. In A. Weber (Ed.) *Tagungsband gemeinsame Tagung der Fachgruppen Entwicklungspsychologie und Pädagogische Psychologie (PAEPSY)* (pp. 417). Leck: CPI books GmbH.
10. Ferdinand, N. K., & **Kray, J.** (2015). The impact of language on age differences in learning regularities. In M. Falkenstein, E. Wascher, S. Getzmann, & P. Gajewski, *Proceedings of the Third International Conference on Aging & Cognition*, p.117.
11. Schmitt, H., Ferdinand, N. K., & **Kray, J.** (2015). Modulating the time course of context updating in older adults: The effect of a motivational mind-set on context processing. In M. Falkenstein, E. Wascher, S. Getzmann, & P. Gajewski, *Proceedings of the Third International Conference on Aging & Cognition*, p.144.
12. Ferdinand, N. K., & **Kray, J.** (2015). The influence of task complexity on the electrophysiological correlates of feedback processing in old age. In C. Bermeitinger, A. Mojzisch, & W. Greve (Hrsg.), *TeaP 2015: Abstracts of the 57th Conference of Experimental Psychologists*. Lengerich: Pabst Science Publishers, p.78.
13. Dillinger, A., Ferdinand, N. K., & **Kray, J.** (2015). The effects of experimentally induced positive and negative mood on feedback processing: An ERP study. In C. Bermeitinger, A. Mojzisch, & W. Greve (Hrsg.), *TeaP 2015: Abstracts of the 57th Conference of Experimental Psychologists*. Lengerich: Pabst Science Publishers, p.66.
14. Dörrenbächer, S., Müller., P. M., Tröger, J. & **Kray, J.** (2015). The influence of a motivational game setting on a task-switching training in middle childhood. In C. Bermeitinger, A. Mojzisch & W. Greve (Hrsg.), *TeaP 2015: Abstracts of the 57th Conference of Experimental Psychologists* (S. 68). Lengerich: Pabst Science Publishers.
15. Schmitt, H., Ferdinand, N. K., & **Kray, J.** (2015). The influence of motivation on cognitive control: Event-related potentials reveal differential incentive effects in younger and older adults. In C. Bermeitinger, A. Mojzisch, & W. Greve (Hrsg.), *TeaP 2015: Abstracts of the 57th Conference of Experimental Psychologists*. Lengerich: Pabst Science Publishers, p. 225.
16. Ferdinand, N. K., & **Kray, J.** (2014). ERP evidence for lifespan differences in feedback-induced learning: How the processing of positive and negative feedback changes from childhood to old age. *Frontiers in Human Neurosciences*, Conference Abstract: XII International Conference on Cognitive Neuroscience (ICON-XII). DOI: 10.3389/conf.fnhum.2015.217.00151
17. Schmitt, H., Ferdinand, N. K., & **Kray, J.** (2014). How effective are monetary incentives for context updating in younger and older adults? *Frontiers in Human Neurosciences*, Conference Abstract: XII International Conference on Cognitive Neuroscience (ICON-XII). DOI: 10.3389/conf.fnhum.2015.217.00101
18. Fehér, B., & **Kray, J.** (2013). What type of cognitive control training is the best for younger and older adults? *Journal of Psychophysiology*, 27, Supplement 1, p.52-53.
19. Ferdinand, N. K., & **Kray, J.** (2013). Age-related Changes in Feedback Processing: Is there a positivity effect for older adults? *Journal of Psychophysiology*, 27, Supplement 1, p.19-20.

20. Schmitt, H., Ferdinand, N. K., & **Kray, J.** (2013). Age differences in cognitive control: ERP correlates of context updating in younger and older adults. *Journal of Psychophysiology, 27, Supplement 1*, p. 39.
21. Schmitt, H., Ferdinand, N. K., & **Kray, J.** (2013). Event-related potentials associated with age differences in context updating. In U. Ansorge, E. Kirchner, C. Lamm, & H. Leder (Hrsg.), *TeaP 2013: Abstracts of the 55th Conference*
22. Ferdinand, N. K. & **Kray, J.** (2012). Altersbedingte Veränderungen in der Verarbeitung von positivem und negativem Feedback. *Psychological Test and Assessment Modeling, Supplement*, p. 347.
23. **Kray, J.** (2012). Effectiveness of task switching training in adulthood. *Gerontechnology, 11*. p. 220. doi: <http://dx.doi.org/10.4017/gt.2012.11.02.160.00>
24. Unger, K. & **Kray, J.** (2012). Differential effects of gain vs. loss anticipation on error processing and learning. *Psychophysiology, 49, Supplement 1*, p. 28.
25. Hommel, B., **Kray, J.**, & Lindenberger, U. (2011). Feature integration across the lifespan: Stickier stimulus-response bindings in children and older adults. *Journal of Psychophysiology, Supplement, 25*, p. 16.
26. **Kray, J.** (2011). How can cognitive control functioning be improved in old age? *Journal of Psychophysiology, Supplement, 25*, p. 20.
27. Hoellen, N., **Kray, J.**, Karbach, J., Blaye, A., & Lucenet, J. (2010). The influence of working memory demands and verbal processes on age differences in task switching. In C. Frings, A. Mecklinger, D. Wentura, & H. Zimmer (Hrsg.), *Experimentelle Psychologie, Beiträge zur 52. Tagung experimentell arbeitender Psychologen*. Lengerich: Pabst Science Publishers, p. 51.
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 68. Müller, V., **Kray, J.** & Lindenberger, U. (2003). Altersunterschiede in der kognitiven Kontrolle beim Aufgabenwechsel mit Stroop-Reizen: EEG Powerspektren und Kohärenzen. In J. Golz, F. Faul & R. Mausfeld (Hrsg.), *Experimentelle Psychologie, Abstracts der 45. Tagung experimentell arbeitender Psychologen*. Lengerich: Pabst Science Publishers, S. 197.
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Invited Symposium Papers and Colloquium Talks

1. Kray, J. (2015, March). Improving executive control by cognitive interventions: New insights from a lifespan view. Invited paper to a key symposium on Executive Control across the lifespan" at the *I. International Convension of Psychological Science (ICPS 2015)*. Amsterdam, Netherlands.
2. Kray, J. (2015, March). Discussant within a symposium on "Game-based cognitive training for the aging brain" at the *I. International Convension of Psychological Science (ICPS 2015)*. Amsterdam, Netherlands.
3. Kray, J. & Feher, B. (2015, July). What type of cognitive control training is the best for younger and older adults? Invited symposiums paper at the *XII International Conference on Cognitive Neuroscience (ICON-XII)*. Brisbane, Australia.

4. Kray, J. & Ferdinand, N.K. (2012, September). Lifespan changes in cognitive control: A look at implicit and explicit learning situations. Invited talk at a symposium on "Lifespan Perspectives on Implicit and Explicit Learning", Brüssel, Belgien.
5. Kray, J. (2012, Mai). Entwicklung kognitiver Kontrolle über die Lebensspanne: Interventionsmöglichkeiten und deren Grenzen. Eingeladener Vortrag am Psychologischen Institut der RWTH, Aachen, Aachen.
6. Kray, J. (2011, August). Age differences in the training and transfer of task switching. Talk at the *First International Workshop on Training of Working Memory and Cognitive Control*. University of Maryland, Washington, USA.
7. Kray, J. (2010, Mai). Möglichkeiten und Grenzen der Förderung kognitiver Kontrolle über die Lebensspanne. Eingeladener Vortrag am Psychologischen Institut der Universität Zürich, Zürich.
8. Kray, J. (2009, Dezember). Kognitive Intervention über die Lebensspanne. Eingeladener Vortrag am Psychologischen Institut der Jacobs Universität Bremen, Bremen.
9. Kray, J. (2008, Januar). Entwicklung kognitiver Kontrolle über die Lebensspanne: Möglichkeiten und Grenzen kognitiver Intervention. Eingeladener Vortrag am Psychologischen Institut der Universität Wuppertal, Wuppertal.
10. Kray, J. (2007, November). Altersbedingte Veränderungen in kognitiver Kontrolle: Möglichkeiten und Grenzen kognitiver Intervention. Eingeladener Vortrag am Psychologischen Institut der Universität Wien, Wien.
11. Kray, J. (2007, Januar). Altersunterschiede in kognitiver Kontrolle über die Lebensspanne. Eingeladener Vortrag am Psychologischen Institut der Universität Potsdam, Potsdam.
12. Kray, J., Eppinger, B., Mock, B., & Mecklinger, A. (2007, June). Adult age differences in reinforcement learning. Invited symposium paper presented at the 33. *Tagung „Psychologie und Gehirn“*, Dortmund.
13. Kray, J., Karbach, J., & Eber, J. (2007, August). Verbal self-instructions: A useful tool for reducing age differences in task switching? Invited symposium paper presented at the *15th Meeting of the European Society for Cognitive Psychology*. Marseille, France.
14. Kray, J. (2006, Juli). Altersunterschiede in kognitiver Kontrolle: Zum Einfluss sprachlicher Prozesse. Eingeladener Vortrag am Psychologischen Institut der Universität Leipzig, Leipzig.
15. Kray, J. (2006, Januar). Altersunterschiede in exekutiven Funktionen. Vortrag im Kolloquium des Psychologischen Instituts an der Universität Oldenburg, Oldenburg.
16. Kray, J. (2005, April). Priming of task sets in younger and older adults. *Invited paper presented at the „CBR Workshop Control in Attention and Action“*, University of Amsterdam, Amsterdam, Netherlands.
17. Kray, J. (2005, April). Eingeladener Vortrag am Psychologischen Institut der Universität Graz, Graz.
18. Kray, J., Karbach, J. & Eber, J. (2005, September). Zur Nützlichkeit verbaler Selbstinstruktionen bei der Handlungssteuerung: Eine entwicklungspsychologische Perspektive. Eingeladener Symposiumsvortrag auf der *20. Jahrestagung der Gesellschaft für Neuropsychologie (GNP)*, Bremen.
19. Kray, J., & Kramer, A.F. (2004, July). Attentional control. Invited symposium paper presented at the "*18th Biennial Meeting of the International Society for the Study of Behavioral Development (ISSBD)*", Ghent, Belgium.
20. Kray, J. (2004, September). Age differences in executive functioning: The role of inner speech. Paper presented at the departmental colloquia. Department of Psychology, University of Leiden, Leiden, Netherlands.
21. Kray, J. (2004, September). Age differences in executive functioning: The role of inner speech. Paper presented at the departmental colloquia. Department of Psychology, University of Amsterdam, Amsterdam, Netherlands.

22. Kray, J. (2003, September). Selecting between task sets in younger and older adults: The role of task cueing and item-specific learning. Invited symposium paper at the 13. *Conference of the European Society for Cognitive Psychology (ESCOP)*, Granada, Spain.
23. Kray, J. (2001, September). Efficient control of tasks: A lifespan view on executive functioning. Eingeladener Symposiumsvortrag auf der 5. *Tagung für Kognitionswissenschaft*, Leipzig.
24. Kray, J. (1997, June). Age differences in task switching. Invited paper presented at the „*Workshop on Intentional Control of Thought of the GrK Kognitionswissenschaft*, Bundeswehr Universität Hamburg, Hamburg, Germany.

Conference Presentations

1. Haeuser, K. I., & **Kray, J.** (2021, September). 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, Paris, France*.
2. Haeuser, K. I., Vergilova, Y. & **Kray, J.** (2021, March). Do children predict grammatical gender of nouns? Mini Talk held at the *34th Annual CUNY Human Sentence Processing*.
3. Sommerfeld, L., Staudte, M., Mani, N., & **Kray, J.** (2021, September). Children and adults integrate complex visual contexts in language prediction. *In: Architectures and Mechanisms for Language Processing, Paris, France*.
4. Van Os, M., **Kray J.**, Demberg V. (2021, July). Recognition of Minimal Pairs in (un)predictive sentence contexts in noise. *Presentation at the 3rd SFB Networking Workshop, Saarbrücken, Germany*.
5. Van Os, M., **Kray J.**, Demberg V. (2021, March). Recognition of minimal pairs in (un)predictive sentence context in two types of noise. Short oral presentation at the *34th CUNY Conference on Human Sentence Processing*.
6. Haeuser, K. I., & **Kray, J.** (2019, October). As you like it: Predictive processing enhances episodic memory retrieval. *Conference talk, RAILS–Rational Approaches in Language Science, Saarbrücken, Germany*.
7. Stenger, K., Dörrenbächer, S. & **Kray, J.** (2018, April). Improving cognitive control processes in older adults by means of task-switching training: An ERP approach. *Talk at the Cognitive Aging Conference, Atlanta, USA*.
8. **Kray, J.**, Schmiedek, F. & Kliegel, M. (2011, September). Kognitive Interventionen über die Lebensspanne. *Symposium auf der 20. Fachtagung Entwicklungspsychologie der Deutschen Gesellschaft für Psychologie, Erfurt*.
9. **Kray, J.**, Lehner, S., Heintz, S., Schmitt, H. Lucenet, J. & Blaye, A. (2011, September). Altersunterschiede in der Modulierung kognitiver Kontrolle durch verbale Selbstinstruktionen. *Vortrag auf der 20. Fachtagung Entwicklungspsychologie der Deutschen Gesellschaft für Psychologie, Erfurt*.
10. Lehner, S. & **Kray, J.** (2011, September). Der Einfluss verbaler Strategien auf visuelle Gedächtnisleistungen im Kindesalter. *Vortrag auf der 20. Fachtagung Entwicklungspsychologie der Deutschen Gesellschaft für Psychologie, Erfurt*.
11. Hoellen, N., **Kray, J.**, Karbach, J. Blaye, A., & Lucenet, J. (2010, March). The influence of working memory demands and verbal processes on age differences in task switching. *Talk at the 52th Meeting for Experimental Psychologists (TEAP), Saarbrücken, Germany*.
12. Karbach, J., Mang, S., & **Kray, J.** (2010, March). Aufgabenwechseltraining bei älteren Erwachsenen: Transfereffekte und die Rolle verbaler Strategien. *Talk at the 52th Meeting for Experimental Psychologists (TEAP), Saarbrücken, Germany*.

13. **Kray, J.**, Karbach, J., Hänig, S., & Freitag, C. M. (2010, March). Trainings- und Transfereffekte exekutiver Kontrolle bei Kindern mit ADHS. *Talk at the 52th Meeting for Experimental Psychologists (TEAP), Saarbrücken, Germany.*
14. Karbach, J., Mang, S., & **Kray, J.** (2009, September). Aufgabenwechseltraining im Alter: Transfereffekte und die Rolle sprachlicher Prozesse. *Talk at the 19th Meeting for Developmental Psychology of the German Psychological Association, Hildesheim, Germany.*
15. **Kray, J.**, Karbach, J., Hänig, S., & Freitag, C.M. (2009, September). Trainings- und Transfereffekte kognitiver Kontrolle bei Kindern mit einer Aufmerksamkeitsdefizit/Hyperaktivitätsstörung (ADHS). *Talk at the 12th Meeting for Educational Psychology of the German Psychological Association, Saarbrücken, Germany.*
16. Karbach, J., **Kray, J.**, & Blaye, A. (2009, September). Developmental changes in the effects of associative learning on task-switching abilities. *Poster presented at the 16th Meeting of the European Society for Cognitive Psychology (ESCoP), Krakau, Poland.*
17. Karbach, J. & **Kray, J.** (2009, May). The transferability of cognitive training: A lifespan perspective. *Talk at the Workshop "Lifespan Development of Executive Control", Saarbrücken, Germany.*
18. Karbach, J., & **Kray, J.** (2009). Task-switching training: Developmental changes, longterm transfer, and effects on ADHD. *Talk at the Biennial Meeting of the Society for Research on Child Development (SRCD), Denver, USA.*
19. Karbach, J., Hänig, S. Freitag, C. M. & **Kray, J.** (2009, March). Effekte kognitiven Trainings bei ADHS. *Talk at the 31th Congress of the German Society for Pediatric and Adolescent Psychiatry, Psychosomatics, and Psychotherapy (Deutsche Gesellschaft für Kinder- und Jugendpsychiatrie, Psychosomatik und Psychotherapie), Hamburg, Germany.*
20. Eppinger, B., & **Kray, J.** (2008). To choose or to avoid: Age-related changes in learning and error processing. *Talk at the Annual Meeting of the Society for Neuroscience, Washington DC, USA.*
21. Eppinger, B., & **Kray, J.** (2008). To choose or to avoid: ERP correlates of learning in younger and older adults. *Talk at the Annual Meeting of the Gerontological Society of America, Washington DC, USA.*
22. Ferdinand, N. K., Mecklinger, A. & **Kray, J.** (2008, März). Die Funktion von Erwartungsverletzungen bei der Fehlerüberwachung: Eine EKP-Studie. *Vortrag auf der 50. Tagung experimentell arbeitender Psychologen, Marburg.*
23. Karbach, J. & **Kray, J.** (2008, July). The development of cognitive control: The influence of verbal processes. *Talk at the 29th International Congress of Psychology (ICP), Berlin, Germany.*
24. Karbach, J. & **Kray, J.** (2008, July). Task-switching training across the lifespan: How far does it transfer and how long do the effects persist? *Talk at the 20th Biennial Meeting of the International Society for the Study of Behavioral Development (ISSBD), Würzburg, Germany.*
25. **Kray, J.**, & Karbach, J. (2008, April). Long-term effects of executive control training across the lifespan: First evidence from a 1-year follow-up study. *Talk at the 12th Cognitive Aging Conference, Atlanta, USA.*
26. **Kray, J.**, Karbach, J. & Kersken, C. (2008, März). Altersunterschiede in der Stroop-Aufgabe: Asymmetrische Alterseffekte in Facilitation und Interferenz über die Lebensspanne. *Vortrag auf der 50. Tagung experimentell arbeitender Psychologen, Marburg, Germany.*
27. Ferdinand, N. K., Weiten, A., Mecklinger, A. & **Kray, J.** (2007, März). Prozesse der Fehlerüberwachung und ihre Veränderungen mit dem Alter. *Vortrag auf der 8. Tagung der Gesellschaft für Kognitionswissenschaft, Saarbrücken.*

28. Karbach, J., & **Kray, J.** (2007a, March). Cognitive control and verbal self-instructions: Transfer of training across the lifespan. Paper presented at the „8th Meeting of the Society for Cognitive Sciences“, Saarbrücken, Germany.
29. Karbach, J., & **Kray, J.** (2007b). Lifespan changes in cognitive control and verbal self-instructions: Promoting transfer of training by means of feedback and training variability. Paper presented at the „8th Meeting of the Society for Cognitive Sciences“, Saarbrücken, Germany.
30. **Kray, J.**, & Karbach, J. (2007, July). Age differences in executive functioning. Paper presented at the „Final Meeting of the Priority Program on Executive Functions“, Leiden, Germany.
31. Eppinger, B., **Kray, J.**, Mock, B. & Mecklinger, A. (2006, März). Altersunterschiede beim Lernen: Zur Rolle der Fehlernegativierung. Vortrag auf der 48. *Tagung experimentell arbeitender Psychologen (TeaP)*, Mainz.
32. Ferdinand, N. K., Mecklinger, A. & **Kray, J.** (2006, März). Fehlerverarbeitung bei implizitem und explizitem Sequenzlernen. Vortrag auf der 48. *Tagung experimentell arbeitender Psychologen (TeaP)*, Mainz.
33. Karbach, J., & **Kray, J.** (2006, July). Cognitive control and verbal self-instructions: Transfer of training. Paper presented at the „9th Meeting of the Priority Program on Executive Functions“, Berlin, Germany.
34. Karbach, J., & **Kray, J.** (2006, December). Cognitive transfer of cognitive control training: Developmental changes. Paper presented at the „10th Meeting of the Priority Program on Executive Functions“, Fulda, Germany.
35. Karbach, J., **Kray, J.**, & Eber, J. (2006, September). Altersunterschiede beim Aufgabenwechsel: Der Einfluss verbaler Selbstinstruktionen. Vortrag auf dem 45. *Kongress der Deutschen Gesellschaft für Psychologie (DGP)*, Nürnberg.
36. **Kray, J.**, Eber, J. & Karbach, J. (2006, März). Altersbedingte Unterschiede in der Nutzung verbaler Selbstinstruktionen beim Aufgabenwechsel. Vortrag auf der 48. *Tagung experimentell arbeitender Psychologen (TeaP)*, Mainz.
37. **Kray, J.**, Eenshuistra, R., Kerstner, H., Weidema, M. & Hommel, B. (2006, September). Sprache und Handlungskontrolle: Der Erwerb von Handlungszielen in der frühen Kindheit. Vortrag auf dem 45. *Kongress der Deutschen Gesellschaft für Psychologie (DGP)*, Nürnberg.
38. Veit, D., Mohr, G., **Kray, J.**, Bechtold, J. & Fass, R. (2006, September). ADHS: Kognitive Defizite und selektive MPH-Effekte. Vortrag auf dem 45. *Kongress der Deutschen Gesellschaft für Psychologie (DGP)*, Nürnberg.
39. Eppinger, B., **Kray, J.**, & Mecklinger, A. (2005, May). Age differences in task-set selection and conflict processing. An electrophysiological approach. Paper presented at the „Annual Meeting of the Biological Psychologists and Neuropsychologists of the German Society of Psychology as well as the German Society of Psychophysiology and its Applications“, Bochum, Germany.
40. Karbach, J., & **Kray, J.** (2005, November). Age differences in response interference: The role of verbal processes in focusing attention. Paper presented at the „8th Meeting of the Priority Program on Executive Functions“, Fulda, Germany.
41. **Kray, J.**, Eber, J. & Karbach, J. (2004, September). Altersunterschiede beim Aufgabenwechsel: Zur Rolle sprachlicher Prozesse. Vortrag auf dem 44. *Kongress der Deutschen Gesellschaft für Psychologie (DGP)*, Göttingen.
42. **Kray, J.** (2003, September). Altersbedingte Veränderungen in der Handlungssteuerung: Eine Lebensspannenperspektive. Übersichtsvortrag auf der 16. *Tagung der Fachgruppe Entwicklungspsychologie*, Mainz.
43. Werkle, M., Mecklinger, A., **Kray, J.**, Meyer, P. & Düzel, E. (2003, März). Abrufkontrolle beim episodischen Erinnern: Eine Analyse mittels ereigniskorrelierter Potentiale (EKPs). Vortrag auf der 45. *Tagung experimentell arbeitender Psychologen (TeaP)*, Kiel.

44. **Kray, J.**, & Lindenberger, U. (2002, April). Age differences in the selection among task sets: The role of task cueing. Paper presented at the 2. *Meeting on Modelization of Variability in Cognitive Changes*, Saarbrücken, Germany.
45. **Kray, J.** (2002, September). Age differences in the selection among task sets. Vortrag auf der 43. *Kongreß der Deutschen Gesellschaft für Psychologie (DGP)*, Berlin.
46. **Kray, J.**, & Li, K. Z. H. (2000, April). Adult age differences in task-switching components. Paper presented at the "8th *Cognitive Aging Conference (CAC)*", Atlanta, USA.
47. **Kray, J.**, & Lindenberger, U. (1998, April). Age differences in internal cognitive control: The role of coordination and reconfiguration during task switching. Paper presented at the "7th *Cognitive Aging Conference (CAC)*", Atlanta, USA.
48. **Kray, J.** & Lindenberger, U. (1997, März). Altersunterschiede beim Wechseln zwischen einfachen kognitiven Aufgaben. Vortrag auf der 39. *Tagung Experimentell Arbeitender Psychologen (TeaP)*, Berlin.
49. **Kray, J.** & Lindenberger, U. (1997, September,). Altersunterschiede in kognitiven Kontrollprozessen: Die Rolle von Rekonfiguration und Koordination beim Aufgabenwechsel. Vortrag auf der 13. *Tagung der Fachgruppe Entwicklungspsychologie*, Wien, Austria.
50. Frensch, P. A., Lindenberger, U., & **Kray, J.** (1996, April). Age differences in the regulation of cognitive processing: The costs of coordination. Paper presented at the "6th *Cognitive Aging Conference (CAC)*", Atlanta, USA.
51. Frensch, P. A., Lindenberger, U. & **Kray, J.** (1996, April). Altersunterschiede in der Mechanik der Kognition: Der Beitrag der Koordinationsfähigkeit. Vortrag auf der 38. *Tagung Experimentell Arbeitender Psychologen (TeaP)*, Eichstätt.
52. Lindenberger, U., Frensch, P. A. & **Kray, J.** (1995, September). Kognitive Altersunterschiede und die Trägheit des kognitiven Systems. Vortrag auf der 12. *Tagung der Fachgruppe Entwicklungspsychologie*, Leipzig.

Poster Presentations

1. Bhandari, P., Demberg, V., & **Kray, J.** (2021). Older adults make equal use of predictability in comprehension of degraded speech as younger adults do. 6th Annual Conference Aging and Cognition, Online.
2. Bhandari, P., Demberg, V., & **Kray, J.** (2021). Predictability facilitates comprehension of degraded speech in a graded manner. Poster presentation at Cognitive Neuroscience Society Annual Meeting, March 13th-16th.
3. Van Os, M., **Kray J.**, Demberg V. (2021). Effect of noise on recognition of minimal pairs in (un)predictive sentence contexts. Poster presentation at the *Psycholinguistics in Flanders2020/2021 conference*.
4. Van Os, M., **Kray J.**, Demberg V. (2021, April). Age differences in mishearings during language comprehension under noise. Poster presentation at the *4rd Conference of the European Cognitive Aging Society (EUCAS)*.
5. Vergilova, Y., & **Kray, J.** (2021). Primary schoolers use contextual constraint to learn the meaning of novel words Poster presentation at Cognitive Neuroscience Society Annual Meeting, March 13th-16th.
6. 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.
7. Van Os, M., **Kray J.**, Demberg V. (2020). Effect of noise on recognition of minimal pairs in (un)predictive sentence contexts. Poster presentation at the *26th Architectures and Mechanisms for Language Processing Conference (AMLaP)*.

8. Bhandari, P., Demberg, V., & **Kray, J.** (2019). Age differences in language comprehension: Older adults 'predict more' in a challenging listening condition. *Rational Approaches in Language Science*, Saarbrücken, Germany.
9. Häuser, 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
10. Häuser, K., Demberg, V., & **Kray, J.** (2018). 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.
11. Stenger, K., Ferdinand, N., & **Kray, J.** (2018). Does task-switching training improve updating and resolving task interference in older adults? Evidence from an ERP approach. *Posterpräsentation, SPR Annual Meeting (Québec City)*.
12. Müller, L., Ritter, H., & **Kray, J.** (2018). Differential emotion-induced effects on the efficiency of cognitive control throughout adolescent development. Poster presentation, *TeaP – 60th Conference of Experimental Psychologists*, Marburg, Germany, March 11 – 14.
13. Dörrenbächer, S. & **Kray, J.** (2017). *The influence of a game-based task-shifting training on cognitive-control and state-regulation impairments in children with ADHD*. ESCOP2017 (Potsdam).
14. Dörrenbächer, S., **Kray, J.** & Zimmer, H. (2017). *Temporally dissociable signatures of functional plasticity after task shifting training in older adults*. ESCOP2017 (Potsdam).
15. Dörrenbächer, S. & **Kray, J.** (2017). *How a game setting may or may not benefit a task-shifting training with cross-task competition in children with ADHD*. DGPS PaEPSY 2016: Gemeinsame Tagung der Fachgruppen Entwicklungspsychologie und Pädagogische Psychologie 2017 (Münster).
16. Dörrenbächer, S., **Kray, J.** & Zimmer, H. (2017). *Neural signatures of practice-induced changes after a task-switching training in old age*. DGPS PaEPSY 2016: Gemeinsame Tagung der Fachgruppen Entwicklungspsychologie und Pädagogische Psychologie 2017 (Münster).
17. Häuser, K., Demberg, V., & Kray, J. (2017). Language comprehension under cognitive load: Age-related differences in single vs dual task performance. Poster at the *30th Annual CUNY Conference on Human Sentence Processing*, Boston, MA, March 30–April 1.
18. Dörrenbächer, S., Stenger, K. & **Kray, J.** (2014). *Neural correlates of age-related changes after practice in task switching: an individual differences approach*. Posterpräsentation, Workshop "The Interplay between Structural Brain Maturation and the Development of Cognitive Functions", LMU München, Dezember 2014.
19. Becker, A. M. W., Ferdinand, N. K., & **Kray, J.** (2013, September). Lernen auf Basis von Feedback: Gibt es Unterschiede zwischen Kindern und Jugendlichen in der Verarbeitung von positivem und negativem Feedback? Poster präsentiert auf der 21. Tagung der Fachgruppe Entwicklungspsychologie, Saarbrücken.
20. Dillinger, A., Ferdinand, N. K., & **Kray, J.** (2013, September). Lernen aus positivem und negativem Feedback: Altersbedingte Veränderungen und der Einfluss des Lernkontexts. Poster präsentiert auf der 21. Tagung der Fachgruppe Entwicklungspsychologie, Saarbrücken.
21. Fehér, B., & **Kray, J.** (2013, August). Cognitive control training with younger and older adults: The role of inhibition- and memory- related processes in the training and transfer effects of task switching. Poster presented at the 18. ESCOP Meeting, Budapest, Ungarn.
22. Fehér, B., & **Kray, J.** (2013, September). Cognitive control training with younger and older adults: The role of inhibition- and memory-related processes in the training and transfer effects of task switching. Poster präsentiert auf der 21. Tagung der Fachgruppe Entwicklungspsychologie, Saarbrücken.
23. Lehner, S. K., Li, S., & **Kray, J.** (2013, April). The effect of verbal labeling on visual short-term memory: Differences across age and cultures. Poster presented at the SRCO Biennial Meeting, Seattle, Washington, USA.

24. Lucenet, J., Chevalier, N., **Kray, J.**, & Agnès, B. (2013). The development of cognitive control in 5-and 6-year-olds: Qualitative changes in the temporal dynamics of goal setting. Poster presented at the Biennial Meeting SRCD, Seattle, USA.
25. Schmitt, H., Ferdinand, N. K., & **Kray, J.** (2013, September). Verändern motivationale Anreize Altersunterschiede in der Kontextverarbeitung? Eine EKP-Studie. Poster präsentiert auf der 21. Tagung der Fachgruppe Entwicklungspsychologie, Saarbrücken.
26. Unger, K., **Kray, J.** (2013, April). Differential effects of gain vs. loss anticipation on electrophysiological correlates of error and feedback processing in children and adolescents. Poster presented at the 20. CNS Meeting, San Fransisco, USA.
27. Wolff, M., Schmitt, H., Ferdinand, N. K., & **Kray, J.** (2013, September). Neuronale Korrelate altersbedingter Unterschiede in der Kontextverarbeitung. Poster präsentiert auf der 21. Tagung der Fachgruppe Entwicklungspsychologie, Saarbrücken.
28. Ferdinand, N. K. & **Kray, J.** (2012, September). Can error processing happen implicitly? Age-related changes in error processing during implicit and explicit sequence learning. Poster präsentiert beim Symposium "Lifespan Perspectives on Implicit and Explicit Learning", Brüssel.
29. **Kray, J.**, Schmitt, H. Heintz, S. & Blaye, A. (2012, April). Can verbalizations modulate cognitive control strategies during context updating? A life span study. Poster at the 14th Cognitive Aging Conference, Atlanta, USA.
30. Lehner, S., Li, S., Weng, X., & **Kray, J.** (2011). Age-related differences in the efficiency of verbal labelling in visual memory tasks. Poster presented at the Society for Research in Child Development Biennal Meeting, Montreal, Canada.
31. **Kray, J.**, Karbach, J., & Mang, S. (2010, April). Transfer of verbal self-instruction training in older adults. Poster at the 13th Cognitive Aging Conference, Atlanta, USA.
32. Ferdinand, N. K., Mecklinger, A., & **Kray, J.**, & Gehring, B. (2010, September). Are all prediction errors „worse than expected“? Evidence from event-related potentials. Poster at the SPA Meeting, Portland, USA.
33. Unger, K., **Kray, J.**, & Mecklinger A. (2010). Effects of self-relevant failure on performance monitoring: An electrophysiological investigation. Poster at the 17th Annual Meeting of The Cognitive Neuroscience Society, Montreal, Canada.
34. Weiten, A., Ferdinand, N. K., Mecklinger, A., & **Kray, J.** (2008, März). Altersunterschiede in der Fehlerverarbeitung bei implizitem und explizitem Sequenzlernen. Poster auf der 50. Tagung experimentell arbeitender Psychologen, Marburg.
35. Karbach, J., & **Kray, J.** (2008, April) Age differences in the transfer of executive control training. Poster presented at the 12th Cognitive Aging Conference, Atlanta, USA.
36. Eppinger, B., **Kray, J.**, Mock, B., & Mecklinger, A. (2007, May). A life-span view on reinforcement learning and error processing: Evidence from the error-related negativity (ERN). Poster presented at the „14th Cognitive Neuroscience Society Meeting (CNS)“, New York, USA.
37. Ferdinand, N. K., Weiten, A., Mecklinger, A., & **Kray, J.** (2007, May). The role of expectancies in error-driven learning: An ERP study. Poster presented at the „14th Cognitive Neuroscience Society Meeting (CNS)“, New York, USA.
38. Eppinger, B., **Kray, J.**, Mock, B., & Mecklinger, A. (2006, April). Better or worse than expected: Learning, aging, and the ERN. Poster presented at the „13th Cognitive Neuroscience Society Meeting (CNS)“, San Francisco, USA.
39. Karbach, J., **Kray, J.**, & John, O. (2006, April). Lifespan changes in the use of inner speech for interference control. Poster presented at the „11th Cognitive Aging Conference (CAC)“, Atlanta, USA.
40. Karbach, J., **Kray, J.**, & John, O. (2006, August). Are age differences in interference control reduced by the use of task-supporting verbalizations? Poster presented at the „Summer School of the Priority Program on Executive Functions“, Bernried, Germany.

41. Karbach, J., **Kray, J.**, & Eber, J. (2006, August). Verbal self-instructions: A compensatory strategy to reduce age differences in task switching? Poster presented at the "Summer School of the Priority Program on Executive Functions", Bernried, Germany.
42. **Kray, J.**, Eber, J., & Karbach, J. (2006, April). Verbal self-instructions: A compensatory strategy to reduce age differences in task switching? Poster presented at the „11th Cognitive Aging Conference (CAC)“, Atlanta, USA.
43. **Kray, J.**, Eber, J., & Karbach, J. (2006, April). The use of inner speech in task switching: Results of a lifespan developmental study. Poster presented at the „13th Cognitive Neuroscience Society Meeting (CNS)“, San Francisco, USA.
44. Werkle-Bergner, M., Benoit, R., Mecklinger, A., & **Kray, J.** (2006, July). Switching between memory retrieval tasks: Evidence from slow-wave ERP-recordings. Poster presented at the "4th International Conference on Memory (ICOM-4)", Sydney, Australia.
45. Eber, J., & **Kray, J.** (2005, April). The use of verbal self-instructions during task switching in 9-year-old children: Training and transfer effects. Poster presented at the „Expert Meeting of Advances in Developmental Cognitive Neuroscience“, Amsterdam, Netherlands.
46. Eppinger, B., **Kray, J.**, & Mecklinger, A. (2005, April) Age differences in response monitoring: An ERP approach. Poster presented at the „Expert Meeting of Advances in Developmental Cognitive Neuroscience“, Amsterdam, Netherlands.
47. Karbach, J., & **Kray, J.** (2005, April). Age differences in executive functioning during childhood: The influence of verbal processes in task switching. Poster presented at the „Expert Meeting of Advances in Developmental Cognitive Neuroscience“, Amsterdam, Netherlands.
48. Veit, D., Mohr, G., **Kray, J.**, Bechtold, J. & Fass, R. (2006, September). ADHS: Cognitive deficits and selective MPH-effects. Poster presented at the „Expert Meeting of Advances in Developmental Cognitive Neuroscience“, Amsterdam, Netherlands.
49. Eppinger, B., **Kray, J.**, & Mecklinger, A. (2004, June). Age differences in executive control components: Evidence from event-related potentials (ERPs). Poster presented at the 10th International Conference for Functional Mapping of the Human Brain, Budapest, Hungary.
50. Eppinger, B., **Kray, J.**, & Mecklinger, A., & John, O. (2004, March). Age-related differences in task-set selection and interference control: Evidence from ERPs. Poster presented at the Evoked Potentials International Conference XIV (EPIC), Leipzig, Germany.
51. Karbach, J., & **Kray, J.** (2004, July). Age-related changes in cognitive control during childhood: The influence of verbal self-instruction. Poster presented at the "18th Biennial Meeting of the International Society for the Study of Behavioral Development (ISSBD)", Ghent, Belgium.
52. **Kray, J.**, Eber, J., & Lindenberger, U. (2004, April). Lifespan changes in task switching: The role of inner speech. Poster presented at the „10th Cognitive Aging Conference (CAC)“, Atlanta, USA.
53. Müller, V., **Kray, J.**, & Lindenberger, U. (2004, April). Complexity and synchronization of local and global cortical networks in normal aging: Results from Stroop performance. Poster presented at the "10th Cognitive Aging Conference (CAC)“, Atlanta, USA.
54. Eppinger, B., **Kray, J.**, Mecklinger, A. & Lindenberger, U. (2003, September). Elektrophysiologische Indikatoren altersbedingter Beeinträchtigungen in der Auswahl und Hemmung konkurrierender Aufgabensets. Poster präsentiert auf der 16. Tagung der Fachgruppe Entwicklungspsychologie, Mainz.
55. Eppinger, B., **Kray, J.**, & Mecklinger, A. (2003, März). Altersbedingte Unterschiede in der Aufgabenvorbereitung und Antworthemmung: Ein ERP Ansatz. Poster präsentiert auf der 45. Tagung experimentell arbeitender Psychologen (TeaP), Kiel.
56. **Kray, J.** & Eber, J. (2003, September). Können Kinder semantische und symbolische Hinweisreize gleichermaßen zur Steuerung von Handlungen nutzen wie junge und ältere Erwachsene? Poster präsentiert auf der 16. Tagung der Fachgruppe Entwicklungspsychologie, Mainz.

57. **Kray, J.**, Koch, B. & Lindenberger, U. (2003, September) . Altersunterschiede beim Aufgabenwechsel: Zur Rolle sprachlicher Prozesse über die Lebensspanne. Poster präsentiert auf der 16. Tagung der Fachgruppe Entwicklungspsychologie, Mainz.
58. **Kray, J.**, Eppinger, B., & Mecklinger, A. (2003, March). Age-related differences in task-set selection and conflict monitoring: An ERP approach. Poster presented at the "10th Annual Meeting of the Cognitive Neurosciences (CNS)", New York, USA.
59. Müller, V., **Kray, J.**, & Lindenberger, U. (2003, März). Altersunterschiede in der kognitiven Kontrolle beim Aufgabenwechsel mit Stroop-Reizen: EEG Powerspektren und Kohärenzen. Poster präsentiert auf der 45. Tagung experimentell arbeitender Psychologen (TeaP), Kiel.
60. Müller, V., **Kray, J.**, & Lindenberger, U. (2003, March). Cortical dynamics of adults age differences in task-set switching with Stroop stimuli: Analysis of EEG power spectra and coherence. Poster presented at the "10th Annual Meeting of the Cognitive Neurosciences (CNS)", New York, USA.
61. Müller, V., **Kray, J.**, & Lindenberger, U. (2003, September). Altersunterschiede in kognitiver Kontrolle beim Aufgabenwechsel mit Stroop-Reizen: EEG Powerspektren und Kohärenzen. Poster präsentiert auf der 16. Tagung der Fachgruppe Entwicklungspsychologie, Mainz.
62. **Kray, J.** (2002, April). Age differences in executive control: The role of external prompts to behavior. Poster presented at the "9. Cognitive Aging Conference (CAC)", Atlanta, USA.
63. **Kray, J.** (2002, May). Selection of task sets in younger and older adults: The role of task cueing. Poster presented at the International Conference on Binding in Human Memory: A Neurocognitive Approach, Saarbrücken, Germany.
64. **Kray, J.** (2001, September). Altersbedingte Unterschiede in der effizienten Handlungssteuerung: Zur Rolle externer Aufgabencues. Poster präsentiert auf der 15. Tagung der Fachgruppe Entwicklungspsychologie, Potsdam.
65. **Kray, J.** & Lindenberger, U. (2001, September). Veränderung exekutiver Funktionen im Kindesalter: Zur Rolle externer Hinweisreize. Poster präsentiert auf der 15. Tagung der Fachgruppe Entwicklungspsychologie, Potsdam.
66. **Kray, J.**, Frensch, P. A., & Lindenberger, U. (1996, August). Age differences in cognitive control ability. Poster presented at the "14. Biennial Meeting of the International Society for the Study of Behavioral Development (ISSBD), Quebec, Canada.
67. **Kray, J.**, Frensch, P. A. & Lindenberger, U. (1996, September). Altersunterschiede in kognitiver Kontrolle. Poster präsentiert auf der 40. Tagung der Deutschen Gesellschaft für Psychologie (DGP), München.