

## Publications Prof. Dr. Tilo Strobach (updated: March 2024)

### Books

- Strobach, T., & Karbach, J. (2021). *Cognitive training: An overview of features and applications* (2<sup>nd</sup> edition). New York, NY: Springer.
- Strobach, T. (2020). *Kognitive Psychologie*. Stuttgart: Kohlhammer.
- Strobach, T., & Wendt, M. (2018). *Was ist eigentlich Allgemeine Psychologie?* Heidelberg: Springer.
- Strobach, T., Wendt, M., & Janczyk, M. (Eds.) (2018). *Multitasking: Executive functioning in dual-task and task switching situation*. Research Topic in Frontiers in Psychology.
- Strobach, T. & Karbach, J. (2016). *Cognitive training: An overview of features and applications*. New York, NY: Springer.
- Strobach, T. (2014). *Executive functions modulated by context, training, and age*. Habilitation. Humboldt-Universität zu Berlin.
- Strobach, T. (2009). *On the mechanisms improving dual-task performance with practice*. Dissertation. Humboldt-Universität zu Berlin.

### Journal publications and book chapters

#### In press

- Kürten, J., Strobach, T., & Huestegge, L. (in press). Controlling response order without relying on stimulus order – Evidence for flexible representations of task order. *Psychological Research*.
- Schubert, T., Kübler, S., & Strobach, T. (in press). A mechanism underlying improved dual-task performance after practice: Reviewing evidence for the memory hypothesis. *Psychonomic Bulletin & Review*.
- Strobach, T. (in press). Practice effects on dual-task order coordination and its sequential adjustment. *Psychonomic Bulletin & Review*.
- Strobach, T. (in press). Cognitive control and meta-control in dual-task coordination. *Psychonomic Bulletin & Review*.
- Strobach, T., & Karbach, J. (in press). Developmental changes in executive control: Investigating dual-task interference during motor and central cognitive processing with the overlapping task paradigm. *Journal of Cognition and Development*.

#### 2024

- Fascher, M., Nowaczynski, S., Spindler, C., Strobach, T., & Muehlhan, M. (2024). Neural underpinnings of response inhibition in substance use disorders: Weak meta-analytic evidence for a widely used construct. *Psychopharmacology*, 241, 1-17.
- Heidemann, F., Rickard, T., Schubert, T., & Strobach, T. (2024). Age does not modify the processing architecture of dual memory retrieval: An investigation of age-related effects on dual-retrieval practice in younger and older adults. *Aging, Neuropsychology, & Cognition*, 31(1), 114-144.

#### 2023

- Gürdere, C., Strobach, T., Pastore, M., & Pfeffer, I. (2023). Do executive functions predict physical activity behavior? – A Meta-Analysis. *BMC Psychology*, 23:11.
- Reinhartz, A., Strobach, T., Jacobsen, T., & von Bastian, C. C. (2023). Mechanisms of training-related change in processing speed: A drift-diffusion model approach. *Journal of Cognition*, 6(1): 48.
- Strobach, T., Kürten, J., & Huestegge, L. (2023). Benefits of repeated alternations – Task-specific vs. task-general sequential adjustments of dual-task order control. *Acta Psychologica*, 103921.

- Utz, S., Mueller, R., Strobach, T., & Carbon, C.-C. (2023). Under the sun: Adaptation effects to changes in facial complexion. *BMC Psychology*, 11, 96.
- Utz, S., Mueller, R., Strobach, T., & Carbon, C.-C. (2023). Naturalistic face adaptation: How we adapt to freckles fast and sustainably. *i-Perception*, 14(5): 20416695231195262.
- von Bastian, C. C., Belleville, S., Reinhartz, A., & Strobach, T. (2023). Reply to 'Efficiency and capacity mechanisms can coexist in cognitive training'. *Nature Reviews Psychology*, 2, 128.

## 2022

- Karbach, J., & Strobach, T. (2022). Multitasking training. In A. Kiesel, L. Johannsen, I. Koch, & H. Müller (Eds.), *Handbook of Human Multitasking*. Cham: Springer.
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- Pfeffer, I. & Strobach, T. (2022). Die Bedeutung exekutiver Funktionen für die Selbstregulation des körperlichen Aktivitätsverhaltens. [The importance of executive functions in the self-regulation of physical activity behavior.] In S. Klatt & B. Strauss (Eds.), *Kognition und Motorik. [Cognition and motor skills]* Göttingen: Hogrefe.
- Pfeffer, I., & Strobach, T. (2022). Physical activity automaticity, intention, and trait self-control as predictors of physical activity behavior – a dual-process perspective. *Psychology, Health & Medicine*, 27(5), 1021-1034.
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- von Bastian, C. C., Belleville, S., Udale, R. C., Reinhartz, A., Essouni, M., & Strobach, T. (2022). Mechanisms underlying training-induced cognitive changes. *Nature Reviews Psychology*, 1, 30 - 41.
- von Bastian, C. C., Reinhartz, A., Udale, R. C., Grégoire, S., Essounni, M., Belleville, S., & Strobach, T. (2022). Mechanisms of processing speed training and transfer effects across the adult lifespan: protocol of a multi-site cognitive training study. *BMC Psychology*, 10(1), 168.

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- Huestegge, L., Hoffmann, M., & Strobach, T. (2021). Task order representations in dual tasks: Separate or integrated with component task sets? *Quarterly Journal of Experimental Psychology*, 74(12), 2097-2111.
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- Könen, T., Strobach, T., & Karbach, J. (2021). Working memory training. In T. Strobach & J. Karbach (Eds.), *Cognitive training: An overview of features and applications (2<sup>nd</sup> edition)*. New York, NY: Springer.
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