

## Publications, artefacts with documented used, and contributions to conferences

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### Preprints

- **Rey-Mermet, A.**, Singmann, H., & Oberauer, K. (2021). *Neither measurement error nor speed-accuracy trade-offs explain the difficulty of establishing attentional control as a psychometric construct: Evidence from a latent-variable analysis using diffusion modeling*. PsyArXiv. <https://doi.org/10.31234/osf.io/3h26y>
- **Rey-Mermet, A.**, Singh, K., Gignac, G. E., Brydges, C., & Ecker, U. K. H. (2020). *Removal of information from working memory is not related to inhibition*. PsyArXiv. <https://doi.org/10.31234/osf.io/hdks9>
- von Bastian, C. C., Blais, C., Brewer, G. A., Gyurkovics, M., Hedge, C., Kalamala, P., Meier, M. E., Oberauer, K., **Rey-Mermet, A.**, Rouder, J. N., Souza, A. S., Bartsch, L. M., Conway, A. R. A., Draheim, C., Engle, R. W., Friedman, N. P., Frischkorn, G. T., Gustavson, D. E., Koch, I., Redick, T. S., Smeekens, B.A., Whitehead, P. S., & Wiemers, E. A. (2020). *Advancing the understanding of individual differences in attentional control: Theoretical, methodological, and analytical considerations*. PsyArXiv <https://doi.org/10.31234/osf.io/x3b9k>
- Singh, K., Gignac, G. E., Brydges, C. R., **Rey-Mermet, A.**, & Ecker, U. K. H. (2018). *Interference control in working memory*. PsyArXiv. <https://psyarxiv.com/fjrnq/>

### Peer-reviewed publications in international scientific journals

2022

- Belardi, A., Chaieb, L., **Rey-Mermet, A.**, Mormann, F., Rothen, N., Fell, J., & Reber, T. P. (2022). On the relationship between mind wandering and mindfulness. *Scientific Reports*, 12(1), 7755. <https://doi.org/10.1038/s41598-022-11594-x>

2021

- Gade, M., Declerck, M., Philipp, A. M., **Rey-Mermet, A.**, & Koch, I. (2021). Assessing the evidence for asymmetrical switch costs and reversed language dominance effects – A meta-analysis. *Journal of Cognition*, 4(1), 55. <https://doi.org/10.5334/joc.186>
- **Rey-Mermet, A.**, Gade, M., & Steinhauser, M. (2021). Multiplicative priming of the correct response can explain the interaction between Simon and flanker congruency. *PLOS ONE*, 16(3), e0248172. <https://doi.org/10.1371/journal.pone.0248172>

2020

- **Rey-Mermet, A.**, Singh, K. A., Gignac, G. E., Brydges, C. R., & Ecker, U. K. H. (2020). Interference control in working memory: Evidence for discriminant validity between removal and inhibition tasks. *PLOS ONE*, 15(12), e0243053. <https://doi.org/10.1371/journal.pone.0243053>

- **Rey-Mermet, A., & Gade, M.** (2020). Age-related deficits in the congruency sequence effect are task-specific: An investigation of nine tasks. *Psychology and Aging, 35*(5), 744–764. <https://doi.org/10.1037/pag0000414>
- Gade, M., Paelecke, M., & **Rey-Mermet, A.** (2020). Simon says—On the influence of stimulus arrangement, stimulus material and inner speech habits on the Simon effect. *Journal of Experimental Psychology: Learning, Memory, and Cognition, 46*(7), 1349–1363. <https://doi.org/10.1037/xlm0000789>
- **Rey-Mermet, A.** (2020). Finding an interaction between Stroop congruency and flanker congruency requires a large congruency effect: A within-trial combination of conflict tasks. *Attention, Perception, & Psychophysics*. <https://doi.org/10.3758/s13414-019-01914-1>

## 2019

- Schubert, A.-L., & **Rey-Mermet, A.** (2019). Does Process Overlap Theory Replace the Issues of General Intelligence with the Issues of Attentional Control? *Journal of Applied Research in Memory and Cognition, 8*, 277–283. <https://doi.org/10.1016/j.jarmac.2019.06.004>
- Hartmann, E.-M., **Rey-Mermet, A.**, & Gade, M. (2019). Same same but different? Modeling N-1 switch cost and N-2 repetition cost with the diffusion model and the linear ballistic accumulator model. *Acta Psychologica, 198*, 102858. <https://doi.org/10.1016/j.actpsy.2019.05.010>
- **Rey-Mermet, A.**, Gade, M., Souza, A. S., von Bastian, C. C., & Oberauer, K. (2019). Is executive control related to working memory capacity and fluid intelligence? *Journal of Experimental Psychology: General, 148*, 1335–1372. <https://doi.org/10.1037/xge0000593>
- **Rey-Mermet, A.**, Gade, M., & Steinhauser, M. (2019). Sequential conflict resolution under multiple concurrent conflicts: An ERP study. *NeuroImage, 188*, 411–418. <https://doi.org/10.1016/j.neuroimage.2018.12.031>

## 2018

- **Rey-Mermet, A.**, Gade, M., & Oberauer, K. (2018). Should we stop thinking about inhibition? Searching for individual and age differences in inhibition ability. *Journal of Experimental Psychology: Learning, Memory, and Cognition, 44*, 501–526. <https://doi.org/10.1037/xlm0000450>
- **Rey-Mermet, A.**, & Gade, M. (2018). Inhibition in aging: What is preserved? What declines? A meta-analysis. *Psychonomic Bulletin & Review, 25*, 1695–1716. <https://doi.org/10.3758/s13423-017-1384-7>
- Meier, B., & **Rey-Mermet, A.** (2018). After-effects without monitoring costs: The impact of prospective memory instructions on task switching performance. *Acta Psychologica, 184*, 85–99. <https://doi.org/10.1016/j.actpsy.2017.04.010>

## 2017

- **Rey-Mermet, A.**, & Meier, B. (2017). How long-lasting is the post-conflict slowing after incongruent trials? Evidence from the Stroop, Simon, and flanker tasks. *Attention, Perception, & Psychophysics, 79*, 1945–1967. <https://doi.org/10.3758/s13414-017-1348-z>
- **Rey-Mermet, A.**, & Meier, B. (2017). Post-conflict slowing after incongruent stimuli: from general to conflict-specific. *Psychological Research, 81*, 611–628. <https://doi.org/10.1007/s00426-016-0767-0>

## 2016

- **Rey-Mermet, A.**, & Gade, M. (2016). Contextual within-trial adaptation of cognitive control: Evidence from the combination of conflict tasks. *Journal of Experimental Psychology: Human Perception and Performance, 42*, 1505–1532. <https://doi.org/10.1037/xhp0000229>

## 2015

- **Rey-Mermet, A.**, & Meier, B. (2015). Age affects the adjustment of cognitive control after a conflict: Evidence from the bivalency effect. *Aging, Neuropsychology, and Cognition, 22*, 72–94. <http://doi.org/10.1080/13825585.2014.889070>

- Meier, B., **Rey-Mermet, A.**, & Rothen, N. (2015). Turning univalent stimuli bivalent: Synesthesia can cause cognitive conflict in task switching. *Cognitive Neuroscience*, 6, 48–55. <http://doi.org/10.1080/17588928.2015.1017449>

2014

- Rey-Mermet, A.**, & Meier, B. (2014). More conflict does not trigger more adjustment of cognitive control for subsequent events: A study of the bivalency effect. *Acta Psychologica*, 145, 111-117. <http://doi.org/10.1016/j.actpsy.2013.11.005>

2013

- Meier, B., **Rey-Mermet, A.**, Woodward, T. S., Müri, R., & Gutbrod, K. (2013). Episodic context binding in task switching: Evidence from amnesia. *Neuropsychologia*, 51, 886-892. <http://doi.org/10.1016/j.neuropsychologia.2013.01.025>
- Meier, B., **Rey-Mermet, A.**, Rothen, N., & Graf, P. (2013). Recognition memory across the lifespan: The impact of word frequency and study-test interval on estimates of familiarity and recollection. *Frontiers in Psychology*, 4, 787-802. <http://doi.org/10.3389/fpsyg.2013.00787>
- Rey-Mermet, A.**, Koenig, T., & Meier, B. (2013). The bivalency effect represents an interference-triggered adjustment of cognitive control: An ERP study. *Cognitive, Affective, & Behavioral Neuroscience*, 13, 575-583. <http://doi.org/10.3758/s13415-013-0160-z>
- Rey-Mermet, A.**, & Meier, B. (2013). An orienting response is not enough: Bivalency not infrequency causes the bivalency effect. *Advances in Cognitive Psychology*, 9, 146-155. <http://doi.org/10.2478/v10053-008-0142-9>

2012 and before

- Meier, B., & **Rey-Mermet, A.** (2012a). Beyond feature binding: Interference from episodic context binding creates the bivalency effect in task-switching. *Frontiers in Psychology*, 3, 386-394. <http://doi.org/10.3389/fpsyg.2012.00386>
- Meier, B., & **Rey-Mermet, A.** (2012b). Beyond monitoring: After-effects of responding to prospective memory targets. *Consciousness and Cognition*, 21, 1644-1653. <http://doi.org/10.1016/j.concog.2012.09.003>
- Rey-Mermet, A.**, & Meier, B. (2012a). The bivalency effect: Adjustment of cognitive control without response set priming. *Psychological Research*, 76, 50-59. <http://doi.org/10.1007/s00426-011-0322-y>
- Rey-Mermet, A.**, & Meier, B. (2012b). The bivalency effect: Evidence for flexible adjustment of cognitive control. *Journal of Experimental Psychology: Human Perception and Performance*, 38, 213-221. <http://doi.org/10.1037/a0026024>
- Meier, B., Woodward, T. S., **Rey-Mermet, A.**, & Graf, P. (2009). The bivalency effect in task switching: General and enduring. *Canadian Journal of Experimental Psychology*, 63, 201-210. <http://doi.org/10.1037/a0014311>

## Open Material & Open Data (as first author)

- Rey-Mermet, A.**, Gade, M., & Steinhauser, M. (2021, February 24). *Multiplicative priming of the correct response can explain the interaction between Simon and flanker congruency*. <https://osf.io/dxp58/>
- Rey-Mermet, A.**, Singh, K., Gignac, G. E., Brydges, C., & Ecker, U. K. H. (2020, November 3). *Interference control in working memory: Evidence for discriminant validity between removal and inhibition tasks*. <https://osf.io/c8qb2/>
- Rey-Mermet, A.**, & Gade, M. (2020, September 29). *Age-related deficits in the congruency sequence effect are task-specific: An investigation of nine tasks*. <https://osf.io/mbka2/>

- **Rey-Mermet, A.** (2020, May 6). *Finding an interaction between conflict tasks requires large interference effects.* <https://doi.org/10.17605/OSF.IO/NQ76S>
- **Rey-Mermet, A.,** Gade, M., & Steinhauser, M. (2019, July 11). *Sequential conflict resolution under multiple concurrent conflicts: An ERP-study.* <https://doi.org/10.17605/OSF.IO/GV46K>
- **Rey-Mermet, A.,** & Gade, M. (2019, July 11). *Contextual within-trial adaptation of cognitive control: Evidence from the combination of conflict tasks.* <https://doi.org/10.17605/OSF.IO/PTG4N>
- **Rey-Mermet, A.,** Gade, M., Souza, A. S., von Bastian, C. C., & Oberauer, K. (2019, February 25). *Is executive control related to working memory capacity and fluid intelligence?* <https://osf.io/4t4h5/>
- **Rey-Mermet, A.,** Gade, M., & Oberauer, K. (2017, October 27). *Should we stop thinking about inhibition? Searching for individual and age differences in inhibition as a psychometric construct.* <https://osf.io/rygex/>
- **Rey-Mermet, A.,** & Gade, M. (2017, October 23). *Inhibition in aging: What is preserved? What declines? – A meta-analysis.* <https://osf.io/fthku/>

## Preregistrations (as first author)

- **Rey-Mermet, A.,** & Rothen, N. (2021, October 13). *Is the AX-CPT paradigm the new reliable and valid task to assess attentional control?* <https://doi.org/10.17605/OSF.IO/GT4HF>
- **Rey-Mermet, A.,** & Rothen, N. (2020, September 29). *The criterion validity of attentional-control tasks.* <https://doi.org/10.17605/OSF.IO/DUQYK>
- **Rey-Mermet, A.,** & Rothen, N. (2020, September 29). *The impact of circadian arousal on working memory: A latent-variable analysis.* <https://doi.org/10.17605/OSF.IO/TYWU7>
- **Rey-Mermet, A.,** Ernst, B., & Steinhauser, M. (2019, July 17). *The role of the dopaminergic system for the relationship between working memory and time estimation.* <https://doi.org/10.17605/OSF.IO/C653Q>

## Conferences (limited to first author contributions)

- **Rey-Mermet, A.,** & Rothen, N. (2021, November). *The synchrony effect is not as general and robust as previously thought! Evidence from a latent-variable analysis.* Talk presented at the 62<sup>nd</sup> Annual Meeting of the Psychonomic Society. Virtual conference. USA.
- **Rey-Mermet, A.,** Ovalle-Fresa, R., Reber, T. P., & Rothen, N. (2021, November). *Limited evidence for individual differences in low-level visual perceptual processing preferences.* Poster presented at the 62<sup>nd</sup> Annual Meeting of the Psychonomic Society. Virtual conference. USA.
- **Rey-Mermet, A.,** Singh, K., Gignac, G. E., Brydges, C. R., & Ecker, U. (2020, November). *Removal of information from working memory is not related to inhibition.* Poster presented at the 61<sup>st</sup> Annual Meeting of the Psychonomic Society. Virtual Psychonomics. USA.
- **Rey-Mermet, A.,** Gade, M., & Steinhauser, M. (2019, April). *Sequential conflict resolution under multiple concurrent conflicts: An ERP study.* Talk presented at the 61<sup>st</sup> Conference of Experimental Psychologists. London. England.
- **Rey-Mermet, A.,** Singmann, H., Gade, M., & Oberauer, K. (2018, November). *“Stop thinking about inhibition as a psychometric construct” revisited: Speed-accuracy tradeoffs have no impact.* Poster presented at the 59<sup>th</sup> Annual Meeting of the Psychonomic Society. New Orleans. USA.
- **Rey-Mermet, A.,** Gade, M., & Steinhauser, M. (2018, October). *Within-trial adaptation of conflict processing by stimulus conflict.* Poster presented at the 58<sup>th</sup> Annual Meeting of the Society for Psychophysiological Research. Québec. Canada.

- **Rey-Mermet, A., & Gade, M.** (2018, May). To solve several conflicts concurrently, do we need more control or more slowing? Talk presented at the International Meeting of the Psychonomic Society. Amsterdam. Netherlands.
- **Rey-Mermet, A., & Gade, M.** (2018, March). To solve several conflicts concurrently, do we need more control or more slowing? Talk presented at the 60<sup>th</sup> Conference of Experimental Psychologists. Marburg. Germany.
- **Rey-Mermet, A., Gade, M., Souza, A., von Bastian, C., & Oberauer, K.** (2017, November). Executive control, working memory capacity and fluid intelligence: Investigating the Bermuda Triangle. Poster presented at the 58<sup>th</sup> Annual Meeting of the Psychonomic Society. Vancouver. Canada.
- **Rey-Mermet, A., Gade, M., & Oberauer, K.** (2017, September). Stop thinking about inhibition! Searching for individual and age differences in inhibition as a psychometric construct. Poster presented at the International Conference Cognitive Neuroscience of Executive Functions. Padova. Italy. *Awarded with the 1<sup>st</sup> prize.*
- **Rey-Mermet, A., Gade, M., Souza, A., von Bastian, C., & Oberauer, K.** (2017, September). Executive control, working memory capacity and fluid intelligence: Investigating the Bermuda Triangle. Talk presented at the 20<sup>th</sup> meeting of the European Society for Cognitive Psychology. Potsdam. Germany.
- **Rey-Mermet, A., Gade, M., & Oberauer, K.** (2017, April). Stop thinking about inhibition! Searching for individual and age differences in inhibition as a psychometric construct. Poster presented at the 4<sup>th</sup> International Conference Aging & Cognition. Zurich, Switzerland.
- **Rey-Mermet, A., Gade, M., & Oberauer, K.** (2017, April). Inhibition in healthy aging: What is preserved? What declines? – A meta-analysis. Poster presented at the 4<sup>th</sup> International Conference Aging & Cognition. Zurich. Switzerland.
- **Rey-Mermet, A., Gade, M., Souza, A., von Bastian, C., & Oberauer, K.** (2017, March). Inhibition, working memory capacity and fluid intelligence: Investigating the Bermuda Triangle. Talk presented at the 59<sup>th</sup> Conference of Experimental Psychologists. Dresden. Germany.
- **Rey-Mermet, A., Gade, M., & Oberauer, K.** (2016, March). Stop thinking about inhibition! Searching for individual and age differences in inhibition as a psychometric construct. Talk presented at the 58<sup>th</sup> Conference of Experimental Psychologists. Heidelberg. Germany.
- **Rey-Mermet, A., Gade, M., & Oberauer, K.** (2016, January). Inhibition in healthy aging: What is preserved? What declines? Poster presented at the National Gerontology Congress of the Swiss Society of Gerontology. Fribourg. Switzerland.
- **Rey-Mermet, A., Gade, M., & Oberauer, K.** (2015, August). Inhibition in healthy aging: What is preserved? What declines? Poster presented at the international scientific conference Active Healthy Aging. Magdeburg. Germany.
- **Rey-Mermet, A., & Gade, M.** (2015, March). Flanking Stroop: When Flanker and Simon interference impacts the Stroop effect. Talk presented at the 57<sup>th</sup> Conference of Experimental Psychologists. Hildesheim. Germany.
- **Rey-Mermet, A., & Meier, B.** (2014, April). More conflict does not trigger more adjustment of cognitive control for subsequent performance: A study of the bivalency effect. Talk presented at the 56<sup>th</sup> Conference of Experimental Psychologists. Giessen. Germany.
- **Rey-Mermet, A., & Meier, B.** (2012, April). The bivalency effect: Evidence for episodic context binding in task switching. Talk presented at the 54<sup>th</sup> Conference of Experimental Psychologists. Mannheim. Germany.
- **Rey-Mermet, A., Koenig, T., & Meier, B.** (2011, December). The bivalency effect results from the interference of episodic context binding: Evidence from an ERP-study. Poster presented at the 7<sup>th</sup> Clinical Neuroscience Meeting of the University of Bern. Bern. Switzerland.

- **Rey-Mermet, A., & Meier, B.** (2011, September). The bivalency effect: A challenge for theories of cognitive control. Talk presented at the 12<sup>th</sup> Congress of the Swiss Psychological Society. Fribourg, Switzerland.
- **Rey-Mermet, A., & Meier, B.** (2011, August). The impact of prospective stimuli: Evidence for the role of task-set overlap in ongoing task costs! Poster presented at the 5<sup>th</sup> International Conference on Memory. York, England.
- **Rey-Mermet, A., & Meier, B.** (2011, March). Der Bivalenzeffekt: Mehr als eine Assoziation mit konfliktbelasteten Antworten! Talk presented at the 53<sup>rd</sup> Conference of Experimental Psychologists. Halle (Saale), Germany.
- **Rey-Mermet, A., Gutbrod, K., Müri, R., & Meier, B.** (2010, December). Impact of dorsolateral prefrontal lesions on the bivalency effect. Poster presented at the 6<sup>th</sup> Clinical Neuroscience Meeting of the University of Bern. Bern, Switzerland.
- **Rey-Mermet, A., & Meier, B.** (2010, March). Der Einfluss des Bivalenzeffekts auf Wechselkosten: Evidenz für eine flexible Anpassung der kognitiven Kontrolle. Talk presented at the 52<sup>nd</sup> Conference of Experimental Psychologists. Saarbrücken, Germany.
- **Rey-Mermet, A., Gutbrod, K., Müri, R., & Meier, B.** (2009, December). Lack of bivalency effect in amnesic patients: Evidence for episodic context binding. Poster presented at the 5<sup>th</sup> Clinical Neuroscience Meeting of the University of Bern. Bern, Switzerland. *Awarded with the 3<sup>rd</sup> prize.*
- **Rey-Mermet, A., & Meier, B.** (2009, March). Bivalent stimuli influence the information processing of univalent stimuli and have an effect on switch costs. Talk presented at the 6<sup>th</sup> National Congress for psychology students. Kandersteg, Switzerland.

## Invited talks

- **Rey-Mermet, A.** (2021, April). Why is it so difficult to establish inhibition as psychometric construct? Talk invited by Prof. Dr. Anna-Lena Schubert, The Johannes Gutenberg University Mainz, for the online meetings of the Scientific Network on Neurocognitive Psychometrics. Germany.
- **Rey-Mermet, A.** (2019, May). How do we resolve multiple concurrent conflicts? Talk invited by Prof. Dr. Daniela Czernochowski, TU Kaiserslautern, for the Research Colloquium. Kaiserslautern, Germany.
- **Rey-Mermet, A., & Oberauer, K.** (2018, November). Stop thinking about attentional control! Searching for a coherent factor of attentional control. Talk presented at the Attentional Control Hackathon, pre-conference meeting before the 59<sup>th</sup> Annual Meeting of the Psychonomic Society. New Orleans, USA.

## Other

- Organization of the symposium “Unfolding the reliability paradox in attentional-control research” for the 22<sup>nd</sup> meeting of the European Society for Cognitive Psychology, Lille, France, August 2022.
- Organization of the symposium “Going where no researcher has gone before – cognitive control without homunculus?” for the 60<sup>th</sup> Conference of Experimental Psychologists, Marburg, Germany, March 2018.
- Organization of the symposium “Inhibition as a cognitive construct: helpful and valid?” for the 59<sup>th</sup> Conference of Experimental Psychologists, Dresden, Germany, March 2017.