

Publications, artefacts with documented used, and contributions to conferences

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Manuscripts in preprint

- **Rey-Mermet, A.**, & Rothen, N. (2026). *The cognitive boost at the peak of circadian arousal is not as general and robust as previously thought!* PsyArXiv. <https://doi.org/10.31234/osf.io/cepu6>
- **Rey-Mermet, A.**, Haaf, J. M., Donzallaz, M. C., Frischkorn, G. T., Hedge, C., Kempkens, N. O., Oberauer, K.O., & Schubert, A. (2026). *How can we achieve a good measurement of attentional control?* PsyArXiv. <https://doi.org/10.31234/osf.io/ugk4h>
- Kempkens, N. O., & **Rey-Mermet, A.** (2026). *AX-CPT Measures Are Mostly Reliable and Share Variance, but Fall Short as Valid Measures of Attentional Control.* OSF Preprints. <https://doi.org/10.31234/osf.io/gwvse>
- Kempkens, N. O., Haaf, J. M., Schubert, A., & **Rey-Mermet, A.** (2026). *Does Trial Selection Improve the Reliability and Validity of Attentional-Control Measures? A Simulation and Systematic Re-analysis of Existing Datasets.* OSF Preprints. <https://doi.org/10.31234/osf.io/hs576>
- **Rey-Mermet, A.** (2024). *Beyond unity and diversity: Tasks used to assess attentional control measure task-specific processes.* PsyArXiv. <https://osf.io/preprints/psyarxiv/jvbfm>
- 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

2025

- **Rey-Mermet, A.**, Singmann, H., & Oberauer, K. (2025). 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. *Psychonomic Bulletin & Review*, 32, 2585–632, <https://doi.org/10.3758/s13423-025-02696-4>.

2023

- **Rey-Mermet, A.**, & Rothen, N. (2023). The interplay of time-of-day and chronotype results in no general and robust cognitive boost. *Collabra: Psychology*, 9(1), 88337. <https://doi.org/10.1525/collabra.88337>

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.con-cog.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 Book

- Rothen, N., & **Rey-Mermet, A.** (2024). *Wissenschaftliches Arbeiten und Kommunizieren* (1. Auflage). <https://doi.org/10.17605/OSF.IO/4VFUQ>

Open Material & Open Data (as first author)

- **Rey-Mermet, A.**, & Rothen, N. (2023, August 29). *The cognitive boost at the peak of circadian arousal is not as general and robust as previously thought!* <https://osf.io/ngfxv/>
- **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 and PI)

- Kempkens, N., Haaf, J.M. & **Rey-Mermet, A.** (2025, December 18). *Does Combining Attentional-Control Tasks Result in Reliable and Valid Measures?* <https://doi.org/10.17605/OSF.IO/6T2PW>
- Kempkens, N., Haaf, J.M. & **Rey-Mermet, A.** (2025, May 8). *Does Combining Attentional-Control Tasks Result in a Better Measurement of Attentional Control?* <https://doi.org/10.17605/OSF.IO/DRBW3>
- **Rey-Mermet, A.**, Kempkens, N., & Haaf, J.M. (2025, April 9). *What Are Measuring the Typical Tasks Used to Assess Attentional Control?* <https://doi.org/10.17605/OSF.IO/GYXWT>
- **Rey-Mermet, A.**, & Rothen, N. (2023, February 27). *Back to the roots: Can attentional control be extracted from working-memory tasks? A re-analysis of existing datasets.* <https://doi.org/10.17605/OSF.IO/HD73R>
- **Rey-Mermet, A.**, & Rothen, N. (2022, October 10). *Do priming and recognition rely on a common underlying process?* <https://doi.org/10.17605/OSF.IO/5M7QJ>
- **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., & Gade, M.** (2026, March). Challenging the Validity of Attentional-Control Tasks: Evidence for Low Criterion Validity? Talk presented at the 68th Conference of Experimental Psychologists. Tübingen. Germany.
- **Rey-Mermet, A., Singmann, H., & Oberauer, K.** (2025, November). Neither measurement error nor speed-accuracy trade-offs explain the difficulty of establishing attentional control as a psychometric construct. Talk presented at the 66th Annual Meeting of the Psychonomic Society. Denver. USA.
- **Rey-Mermet, A., & Schubert, A.-L.** (2025, September). What key obstacles are we facing when measuring attentional control? Talk presented at the 24th Conference of the European Society for Cognitive Psychology. Sheffield. UK.
- **Rey-Mermet, A., & Gade, M.** (2025, March). Cognitive control: What challenges are we facing? Talk presented at the 67th Conference of Experimental Psychologists. Frankfurt. Germany.
- **Rey-Mermet, A., & Rothen, N.** (2024, November). Extracting attentional control from working-memory tasks: It doesn't solve the problem. Talk presented at the 65th Annual Meeting of the Psychonomic Society. New York City. USA.
- **Rey-Mermet, A., & Rothen, N.** (2024, March). Extracting attentional control from working-memory tasks: Not a solution. Talk presented at the 66th Conference of Experimental Psychologists. Regensburg. Germany.
- **Rey-Mermet, A., & Frischkorn, G. T.** (2023, November). What are the challenges we are facing when we aim to establish attentional control as a psychometric construct? Talk presented at the 64th Annual Meeting of the Psychonomic Society. California, San Francisco. USA.
- **Rey-Mermet, A., Singmann, H., & Oberauer, K.** (2023, November). Neither measurement error nor speed-accuracy trade-offs explain the difficulty of establishing attentional control as a psychometric construct. Talk presented at the symposium for individual differences in cognition (SIDIC), pre-conference meeting of the 64th Annual Meeting of the Psychonomic Society. California, San Francisco. USA.
- **Rey-Mermet, A., & Rothen, N.** (2023, August). Attentional control can be extracted at the latent-variable level from working-memory tasks – But this finding is not replicated across datasets. Talk presented at the 23rd Conference of the European Society for Cognitive Psychology. Porto. Portugal.
- **Rey-Mermet, A., & Rothen, N.** (2023, March). The cognitive boost at the peak of circadian arousal is not as robust and general as previously thought! Talk presented at the 65th Conference of Experimental Psychologists. Trier. Germany.
- **Rey-Mermet, A., Singmann, H., & Oberauer, K.** (2022, September). Measures of cognitive control fail to form a coherent factor – And methodological limitations cannot explain that Away. Talk presented at the 52nd Congress of the German Psychological Society. Hildesheim. Germany.
- **Rey-Mermet, A., & Rothen, N.** (2022, September). The cognitive boost at the peak of circadian arousal is not as robust and general as previously thought! Poster presented at the 17th Conference of the Swiss Psychological Society. Zurich. Switzerland.

- **Rey-Mermet, A.** (2022, August). The issue in attentional-control research is not the reliability, but the validity. Talk presented at the 22nd Conference of the European Society for Cognitive Psychology. Lille. France.
- **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 62nd 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 62nd 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 61st 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 61st 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 59th 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 58th 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 60th 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 58th 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 1st 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 20th 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 4th 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 4th 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 59th 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 58th 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 57th 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 56th 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 54th 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 7th 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 12th 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 5th 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 53rd 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 6th 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 52nd 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 5th Clinical Neuroscience Meeting of the University of Bern. Bern. Switzerland. *Awarded with the 3rd 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 6th National Congress for psychology students. Kandersteg. Switzerland.

Invited talks

- **Rey-Mermet, A.** (2025, July). Beyond Unity and Diversity: Do Tasks Used to Assess Attentional Control Measure More Than Just Task-Specific Processes? Talk invited by Prof. Dr. Lynn Hustegge, University of Würzburg. Germany.

- **Rey-Mermet, A.** (2024, October). Beyond unity and diversity: Tasks used to assess attentional control measure task-specific processes? Talk invited by Prof. Dr. Iring Koch, RWTH Aachen. Germany.
- **Rey-Mermet, A.** & Kempkens, N. (2024, April). Au-delà de l'unité et de la diversité : Que mesure-t-on avec les tâches de contrôle attentionnel? Talk invited by Prof. Dr. Valérie Camos, University of Fribourg. Switzerland.
- **Rey-Mermet, A.** (2023, May). It is difficult to establish attentional control as a psychometric construct – And methodological limitations cannot explain that away. Talk invited by Prof. Dr. Senne Braem, Ghent University. Belgium.
- **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 59th Annual Meeting of the Psychonomic Society. New Orleans. USA.

Other

- Organization of the symposium “New trends in measuring attentional control” for the 24th meeting of the European Society for Cognitive Psychology, Sheffield, UK, September 2025.
- Organization of the symposium “How can we reliably and validly measure cognitive control?” for the 67th Conference of Experimental Psychologists, Frankfurt, Germany, March 2025.
- Organization of the symposium “Attentional control as a psychometric construct: Challenges and responses” for the 64th Annual Meeting of the Psychonomic Society, California, San Francisco, November 2023.
- Organization of the symposium “Unfolding the reliability paradox in attentional-control research” for the 22nd 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 60th Conference of Experimental Psychologists, Marburg, Germany, March 2018.
- Organization of the symposium “Inhibition as a cognitive construct: helpful and valid?” for the 59th Conference of Experimental Psychologists, Dresden, Germany, March 2017.