

Publication List

Matthias Hartmann, Dr.

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Publications in international peer-reviewed scientific journals

1. **Hartmann, M.**, & Müller, P. (2023). Illusory perception of visual patterns in pure noise is associated with COVID-19 conspiracy beliefs. *i-Perception*, 14.
2. Reinert, R. M., Gashaj, V., **Hartmann, M.**, & Moeller, K. (2023). A potential dissociation between perception and production version for bounded but not unbounded number line estimation. *Trends in Neuroscience and Education*, online first.
3. Thoma*, S. P., **Hartmann* M.**, Christen, J., Mayer, B., Mast, F. W., & Weibel, D. (2023). Increasing awareness of climate change with immersive virtual reality. *Frontiers in Virtual Reality*, 4:897034. (* shared first-authorship)
4. **Hartmann, M.** (2022). Summing up: A functional role of eye movements along the mental number line for arithmetic. *Acta Psychologica*.
5. Stocker, K., **Hartmann, M.**, Reissmann, S., Kist, A., & Liechti, M. E. (2022). Buddhist-like opposite diminishing and non-judging during ketamine infusion are associated with antidepressant responses: an open-label personalized-dosing study. *Frontiers in Pharmacology*, 13: 916641
6. **Hartmann, M.**, Lenggenhager, B., & Stocker, K. (2022). Happiness feels light and sadness feels heavy: introducing valence-related bodily sensation maps of emotions. *Psychological Research*, online
7. **Hartmann, M.**, & Müller, P. (2022). Acceptance and adherence to COVID-19 preventive measures are shaped predominantly by conspiracy beliefs, mistrust in science and fear – A comparison of more than 20 psychological variables. *Psychological Reports*, online.
8. Rihs, M., Mast, F. W., & **Hartmann M.** (2022). God is up and devil is down: mortality salience increases implicit spatial-religious associations. *Religion, Brain & Behavior*, 12, 271-283.
9. **Hartmann, M.**, Falconer, C. J., Kaelin-Lang, A., Müri, R. M., & Mast, F. W. (2022). Imagined paralysis reduces motor cortex excitability. *Psychophysiology*. e14069
10. **Hartmann, M.**, Martarelli, C. S., & Sommer, N. R. (2021). Early is left and up: Saccade responses reveal horizontal and vertical spatial associations of serial order in working memory. *Cognition*, 217, 104908.
11. Stocker, K., Hasler, G., & **Hartmann, M.** (2021). Letter to the editor: Are ketamin-induced subjective bodily experiences associated with antidepressant effects? A sensation of floating and a sensation of lightness are not the same – a comment on Acevedo-Diaz et al. *Journal of Psychiatric Research*, 137, 454-455.
12. Gurtner, L., **Hartmann, M.**, & Mast, F. W. (2021). Eye movements during visual imagery and perception show spatial correspondence but have a unique temporal signature. *Cognition*, 210, 104597.
13. Chiffi, K., Diana, L., **Hartmann, M.**, Cazzoli, D., Bassetti, C., Müri, R. M. (2021). Spatial asymmetries (“pseudoneglect”) in free visual exploration – modulation of age and relationship to line bisection. *Experimental Brain Research*, 239, 2693-2700
14. **Hartmann, M.**, Singer, S., Savic, B., Müri, R. M., & Mast, F. W. (2020). Anodal high-definition tDCS over the posterior parietal cortex modulates approximate mental arithmetic. *Journal of Cognitive Neuroscience*, 32, 862-876.
15. **Hartmann, M.**, Martarelli, C., Reber, T., & Rothen, N. (2020). Does a smartphone on the desk drain our brain? No evidence of cognitive costs due to smartphone presence in a short-term and prospective memory task. *Consciousness and Cognition*, 103033.
16. Palluel, E., Falconer, C. J., Lopez, C., Marchesotti, S., **Hartmann, M.**, Blanke, O., & Mast, F. W. (2020). Imagined paralysis alters somatosensory evoked-potentials. *Cognitive Neuroscience*, 11(4), 205-215.
17. Klaus, M. P., Schöne, C. G., **Hartmann, M.**, Merfeld, D. M., Schubert, M. C., & Mast, F. W. (2020). Roll tilt self-motion direction discrimination training: First evidence for perceptual learning. *Attention, Perception, & Psychophysics*, 82, 1987-1999.

18. **Hartmann, M.**, Sommer, N. R., Diana, L., Müri, R. M., & Eberhard-Moscicka, A. (2019). Further to the right: Viewing distance modulates attentional asymmetries ('pseudoneglect') during visual exploration. *Brain and Cognition*, 129, 40-48
19. **Hartmann, M.**, Fischer, M. H., & Mast, F. W. (2019). Sharing a mental number line across individuals? The role of body position and empathy in joint numerical cognition. *Quarterly Journal of Experimental Psychology*, 72, 1732-1740
20. Stocker, K. & **Hartmann, M.** (2019). Next Wednesday's meeting has been moved forward two days: The time-perspective question is ambiguous in Swiss German, but not in Standard German. *Swiss Journal of Psychology*, 78, 61-67.
21. Stocker, K., Hasler, G., & **Hartmann, M.** (2019). The altered-state-of-consciousness (ASC) aspect of a feeling of lightness is reported to be associated with antidepressant benefits by depressed individuals receiving ketamine infusions: A systematic analysis of internet video testimonials. *Psychotherapy and Psychosomatics*, 88, 182-183.
22. Stocker, K. & **Hartmann, M.** (2019). Clinical potential of ketamine-induced altered states of consciousness: some lessons for further psychometric development from internet video testimonials of depressed individuals receiving ketamine infusions. *Psychotherapy and Psychosomatics*, 88, 122
23. Globig, L., **Hartmann, M.**, & Martarelli, C. (2019). Vertical head movements influence memory performance for words with emotional content. *Frontiers in Psychology*.
24. Reinert, R. M., **Hartmann, M.**, Huber, S., & Moeller, K. (2019). Unbounded number line estimation as a measure of numerical estimation. *PLOS ONE*, 14(3): e0213102
25. **Hartmann, M.**, Laubrock, J., & Fischer, M. H. (2018). The visual number world: A dynamic approach to study the mathematical mind. *Quarterly Journal of Experimental Psychology*, 71, 28-36.
26. Faulkenberry, T. J., Witte, M., & **Hartmann, M.** (2018). Tracking the continuous dynamics of numerical processing: A brief review and editorial. *Journal of Numerical Cognition*, 4, 271- 285.
27. **Hartmann, M.** (2017). Non-musicians also have a piano in the head: Evidence for spatial-musical associations from line bisection tracking. *Cognitive Processing*, 18, 75-80.
28. Martarelli, C., Mast, F. W., & **Hartmann, M.** (2017). Time in the eye of the beholder: Gaze position reveals spatial-temporal associations during encoding and memory retrieval of future and past. *Memory & Cognition*, 45, 40-48.
29. **Hartmann, M.**, Mast, F. W. (2017). Loudness counts: interactions between number magnitude, loudness, and space. *Quarterly Journal of Experimental Psychology*, 70, 1305-1322.
30. **Hartmann, M.**, & Fischer, M. H. (2016). Exploring the numerical mind by eye-tracking: a special issue. *Psychological Research*, 80, 325-333.
31. **Hartmann, M.**, Mast, F., & Fischer, M. H. (2016). Counting is a spatial process: Evidence from eye movements. *Psychological Research*, 80, 399-409
32. Stocker, K., **Hartmann, M.**, Martarelli, C., & Mast, F. W. (2016). Eye movements reveal mental looking through time. *Cognitive Science*, 40, 1648-1670.
33. Moser, I., Grabherr, L., **Hartmann, M.**, Mast, F. W. (2015). Self-motion direction discrimination in the visually impaired. *Experimental Brain Research*, 11, 3221-3230.
34. **Hartmann, M.** (2015). Numbers in the eye of the beholder: What do eye movements reveal about numerical cognition? *Cognitive Processing*, 16, 245-248.
35. **Hartmann, M.**, Mast, F. W., & Fischer, M. H. (2015). Spatial biases during mental arithmetic: Evidence from eye movements on a blank screen. *Frontiers in Psychology*, 6:12
36. Fischer, M. H., & **Hartmann, M.** (2014). Pushing forward in embodied cognition: May we mouse the mathematical mind? *Frontiers in Psychology*, 5:1315.
37. **Hartmann, M.**, Martarelli, C., Mast, F. W. (2014). Eye movements during mental time travel follow a diagonal line. *Consciousness and Cognition*, 30, 201-209.
38. **Mast, F.W., Preuss, N., Hartmann, M.** & Grabherr, L. (2014). Spatial cognition, body representation and affective processes: The role of vestibular information beyond ocular reflexes and control of posture, *Frontiers in Integrative Neuroscience*, 8:44.
39. **Hartmann, M.**, & Fischer, M. H. (2014). Pupillometry: The eyes shed fresh light on the mind. *Current Biology*, 24, R281-R282.
40. **Hartmann, M.**, Gashaj, V., Stahnke, A., & Mast, F. W. (2014). There is more than «more is up»: Hand and foot responses reverse the vertical association of number magnitudes. *Journal of Experimental Psychology: Human Perception and Performance*, 40, 1401-1414.

41. **Hartmann, M.**, Haller, K., Moser, I., Hossner, E.-J. & Mast, F.W. (2014). Direction detection thresholds of passive self-motion in artistic gymnasts. *Experimental Brain Research*, 232, 1249- 1258.
42. **Hartmann, M.**, Furrer, S., Herzog, M. H., Merfeld, D. M., & Mast, F. W. (2013). Self-motion perception training: Thresholds improve in the light but not in the dark. *Experimental Brain Research*, 226, 231-240.
43. **Hartmann, M.**, & Mast, F. W. (2012). Moving along the mental time line influences the processing of future related words. *Consciousness and Cognition*, 21, 1558-1562.
44. **Hartmann, M.**, Farkas, R., & Mast, F. W. (2012). Self-motion perception influences number processing: evidence from a parity task. *Cognitive Processing*, 13, 189-192.
45. Lobmaier, J. S., **Hartmann, M.**, Volz, A. J., & Mast, F. W. (2012). Emotional expression affects the accuracy of gaze perception. *Motivation and Emotion*, 8, 573-577.
46. **Hartmann, M.**, Grabherr, L., & Mast, F. W. (2012). Moving along the mental number line: Interactions between whole-body motion and numerical cognition. *Journal of Experimental Psychology: Human Perception and Performance*, 38, 1416-1427.
47. **Hartmann, M.**, Falconer, C., & Mast (2011). Imagined paralysis impairs embodied spatial transformations. *Cognitive Neuroscience*, 2, 155-162.
48. Nyffeler, T., **Hartmann, M.**, Hess, C.W., & Müri, R.M. (2008). Visual vector inversion during memory antisaccades - a TMS study. *Progress in Brain Research*, 171, 429-432.