

Xaver Fuchs

Curriculum Vitae

Personal Details

Name Dr. Xaver Fuchs, Dipl.-Psych.
Date and place of birth 19.06.1983 in Lindenfels, Germany
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Academic Career

Senior Scientist	2021 – present	Cognitive Psychology (Reach & Touch Lab), Department of Psychology, University of Salzburg, Salzburg, Austria (Prof. Dr. Tobias Heed) & Centre for Cognitive Neuroscience (CCNS)
Postdoc	2017 – 2021	Biopsychology & Cognitive Neuroscience, Faculty of Psychology & Sports Science, Bielefeld University (Prof. Dr. Tobias Heed)
Doctoral degree	2017	Heidelberg University (“magna cum laude”)
	2015 – 2017	Heidelberg Academy of Sciences and Humanities
PhD student	2011 – 2017	Institute of Cognitive and Clinical Neuroscience, Central Institute of Mental Health, Mannheim, Germany (Prof. Dr. Herta Flor)
Diploma in psychology	2004 – 2010	Marburg University (Ø=1,1)

Key Publications

The list comprises key publications which are relevant for the proposed project. Please find a full list [here](#).

Research on touch & body perception

Seizova-Cajić, T., **Fuchs, X.**, & Brooks, J. (2023). Creating Tactile Motion. In N. P. Holmes (Eds.), *Somatosensory Research Methods* (p. 71–94). Springer US.

https://doi.org/10.1007/978-1-0716-3068-6_4

Seizova-Cajić, T., Zopf, R., Riemer, M., & **Fuchs, X.** (2023). Somatosensory Illusions. In N. P. Holmes (Eds.), *Somatosensory Research Methods* (p. 267–285). Springer US.

https://doi.org/10.1007/978-1-0716-3068-6_13

Fuchs, X., & Heed, T. (2022). *Modulation of implicitly perceived hand size by visuotactile recalibration* [Preprint]. Neuroscience. <https://doi.org/10.1101/2022.10.13.512071>

Martel, M., Fuchs, X., Trojan, J., Gockel, V., Habets, B., & Heed, T. (2022). Illusory tactile movement crosses arms and legs and is coded in external space. *Cortex*, *149*, 202–225. <https://doi.org/10.1016/j.cortex.2022.01.014>

Fuchs, X., Wulff, D. U., & Heed, T. (2020). Online sensory feedback during active search improves tactile localization. *Journal of Experimental Psychology: Human Perception and Performance*. <https://doi.org/10.1037/xhp0000739>

Riemer, M., Trojan, J., Beauchamp, M., & **Fuchs, X.** (2019). The rubber hand universe: On the impact of methodological differences in the rubber hand illusion. *Neuroscience & Biobehavioral Reviews*, *104*, 268–280. <https://doi.org/10.1016/j.neubiorev.2019.07.008>

Fuchs, X., Riemer, M., Diers, M., Flor, H., & Trojan, J. (2016). Perceptual drifts of real and artificial limbs in the rubber hand illusion. *Scientific Reports*, *6*, 24362. <https://doi.org/10.1038/srep24362>

Neuroscience & brain imaging research

Andoh, J., Milde, C., Diers, M., Bekrater-Bodmann, R., Trojan, J., **Fuchs, X.**, Becker, S., Desch, S., & Flor, H. (2020). Assessment of cortical reorganization and preserved function in phantom limb pain: A methodological perspective. *Scientific Reports*, *10*(1), 11504. <https://doi.org/10.1038/s41598-020-68206-9>

Nees, F., Ruttorf, M., **Fuchs, X.**, Rance, M., & Beyer, N. (2020). Brain-behaviour correlates of habitual motivation in chronic back pain. *Scientific Reports*, *10*(1), 11090. <https://doi.org/10.1038/s41598-020-67386-8>

Nees, F., Ruttorf, M., **Fuchs, X.**, Rance, M., & Beyer, N. (2019). Volumetric brain correlates of approach-avoidance behavior and their relation to chronic back pain. *Brain Imaging and Behavior*. <https://doi.org/10.1007/s11682-019-00110-x>

Milde, C., Rance, M., Kirsch, P., Trojan, J., **Fuchs, X.**, Foell, J., ... Diers, M. (2015). Do Mirror Glasses Have the Same Effect on Brain Activity as a Mirror Box? Evidence from a Functional Magnetic Resonance Imaging Study with Healthy Subjects. *PLoS ONE*, *10*(5).

Research on health and well-being

Fuchs, X., Diers, M., Trojan, J., Kirsch, P., Milde, C., Bekrater-Bodmann, R., Rance, M., Foell, J., Andoh, J., Becker, S., & Flor, H. (2022). Phantom limb pain after unilateral arm amputation is associated with decreased heat pain thresholds in the face. *European Journal of Pain*, *26*(1), 114–132. <https://doi.org/10.1002/ejp.1842>

Fuchs, X., Flor, H., & Bekrater-Bodmann, R. (2018). Psychological Factors Associated with Phantom Limb Pain: A Review of Recent Findings. *Pain Research and Management*, *2018*. <https://doi.org/10.1155/2018/5080123>

Diers, M., **Fuchs, X.**, Bekrater-Bodmann, R., & Flor, H. (2022). Prevalence of Phantom Phenomena in Congenital and Early-Life Amputees. *The Journal of Pain*, *S1526590022004369*. <https://doi.org/10.1016/j.jpain.2022.10.010>