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## Training / Career

- 2004-2010: Studies in Psychology (Albert-Ludwigs-Universität Freiburg)
- 2010-2014: Ph.D. at the Max Planck Institute for Biological Cybernetics, Tuebingen (Topic of Dissertation: „Causal Inference in Multisensory Perception and the Brain“)
- 2014-now: Research Associate in the Group „Psychophysiology and Optical Imaging“ (Department of Psychiatry and Psychotherapy, University Hospital Tuebingen)

## Research Interests

- Mathematical Models of Multisensory Integration
- Multisensory Integration in Mental Disorders (especially Schizophrenia)
- Neural Foundations of the Reward System
- Imaging Methods (fMRI, EEG, fNIRS)
- Cognitive Modelling

## Publications

- Rohe, T.**, Ehlis, A.-C. & Noppeney, U. (2019). The neural dynamics of hierarchical Bayesian inference in multisensory perception. *Nature Communications*, *10*(1), 1907.
- Goldbeck, F., Hapt, A., Rosenbaum, D., **Rohe, T.**, Fallgatter, A. J., Hautzinger, M. & Ehlis, A.-C. (2019). The Positive Brain – Resting State Functional Connectivity in Highly Vital and Flourishing Individuals. *Frontiers in Human Neuroscience*, *12*, 540.
- Delong, P., Aller, M., Giani, A., **Rohe, T.**, Conrad, V., Watanabe, M. & Noppeney, U. (2018). Invisible flashes alter perceived sound location. *Scientific Reports*, *8*(1), 2376.
- Rohe, T.** & Noppeney, U. (2018). Reliability-weighted integration of audiovisual signals can be modulated by top-down control. *eNeuro*, *5*(1), e0315.
- Rohe, T.\***, Dresler, T.\*, Stuhlinger, M., Weber, M., Strittmatter, T. & Fallgatter, A. J. (2017). Bauliche Modernisierungen in psychiatrischen Kliniken beeinflussen Zwangsmaßnahmen [Architectural modernization of a psychiatric hospital influences the application of coercive measures]. *Der Nervenarzt*, *88*, 70-77.

- Kroczek, A. M., Haeussinger, F. B., **Rohe, T.**, Schneider, S., Plewnia, C., Batra, A., Fallgatter, A. J. & Ehlis, A.-C. (2016). Effects of transcranial direct current stimulation on craving, heart-rate variability and prefrontal hemodynamics during smoking cue exposure. *Drug and Alcohol Dependence*, *168*, 134-127.
- Rohe, T.** & Noppeney, U. (2016). Distinct Computational Principles Govern Multisensory Integration in Primary Sensory and Association Cortices. *Current Biology*, *26(4)*, 509-514.
- Rohe, T.** & Noppeney, U. (2015). Sensory reliability shapes perceptual inference via two mechanisms. *Journal of Vision*, *15(5):22*, 1-16.
- Kim, J., Schultz, J., **Rohe, T.**, Wallraven, C., Lee, S. W. & Bühlhoff, H. H. (2015). Abstract representations of associated emotions in the human brain. *Journal of Neuroscience*, *35(14)*, 5655-5663.
- Rohe, T.** & Noppeney, U. (2015). Cortical Hierarchies Perform Bayesian Causal Inference in Multisensory Perception. *PLoS Biology*, *13(2)*, e1002073.
- Dresler, T.\*, **Rohe, T.\***, Weber, M., Strittmatter, T. & Fallgatter, A. J. (2015). Effects of Improved Hospital Architecture on Coercive Measures. *World Psychiatry*, *14(1)*, 105-106.
- Erdeniz, B.\*, **Rohe, T.\***, Done, J. & Seidler, R. D. (2013). A simple solution for model comparison in BOLD imaging: the special case of reward prediction error and reward outcomes. *Frontiers in Neuroscience*, *7*, 116.
- Rohe, T.**, Weber, B. & Fliessbach, K. (2012). Dissociation of BOLD responses to reward prediction errors and reward receipt by a model comparison. *European Journal of Neuroscience*, *36(3)*, 2376-2382.
- Fliessbach, K.\*, **Rohe, T.\***, Linder, N. S., Trautner, P., Elger, C. E. & Weber, B. (2010). Retest Reliability of Reward Related BOLD Signals. *Neuroimage*, *50(3)*, 1168-1176.

\* indicates shared authorship