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PROFILE

In my doctoral studies, I was focusing on epigenetic and cerebral markers of anxiety disorders and the impact of early life adversity. I have worked with different types of large-scale datasets such as microarray data and functional magnetic resonance imaging data.

As part of the Max Planck Fellow Group for Precision Psychiatry led by Prof. Koutsouleris I am focusing on translational and interpretable machine learning. To enhance clinical meaning of psychiatric machine learning models the overall aim is to identify individualized explanations for predictions to make them more transparent.

PUBLICATIONS

- Wiegand, A., Munk, M. H., Drohm, S., Fallgatter, A. J., MacIsaac, J. L., Kobor, M. S., ... & Kreifelts, B. (2021). Neural correlates of attentional control in social anxiety disorder: the impact of early-life adversity and DNA methylation. *Journal of Psychiatry and Neuroscience*, 46(6), E663-E674.
- Wiegand, A., Blickle, A., Brückmann, C., Weller, S., Nieratschker, V., & Plewnia, C. (2021). Dynamic DNA methylation changes in the COMT gene promoter region in response to mental stress and its modulation by transcranial direct current stimulation. *Biomolecules*, 11(11), 1726.
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- Kreifelts, B., Ethofer, T., Wiegand, A., Brück, C., Wächter, S., Erb, M., ... & Wildgruber, D. (2020). The Neural Correlates of Face-Voice-Integration in Social Anxiety Disorder. *Frontiers in psychiatry*, 11, 657.
- Wiegand, A., Sommer, A., Nieratschker, V., & Plewnia, C. (2019). Improvement of cognitive control and stabilization of affect by prefrontal transcranial direct current stimulation (tDCS). *Scientific reports*, 9(1), 1-8.
- Kreifelts, B., Eckstein, K. N., Ethofer, T., Wiegand, A., Wächter, S.,

Brück, C., ... & Wildgruber, D. (2019). Tuned to voices and faces: Cerebral responses linked to social anxiety. *NeuroImage*, 197, 450-456.

- Wiegand, A., Nieratschker, V., & Plewnia, C. (2016). Genetic modulation of transcranial direct current stimulation effects on cognition. *Frontiers in human neuroscience*, 10, 651.