

# PUBLICATIONS

## Kevin Hilbert

### ORIGINAL ARTICLES:

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#### Accepted / 2021

Hornstein, S., Forman-Hoffman, V., Nazander, A., Ranta, K., **Hilbert, K.** (in press). Predicting Therapy Outcome in a Digital Mental Health Intervention for Depression and Anxiety: A Machine Learning Approach. *Digital Health*.

Langhammer, T.\*, **Hilbert, K.\***, Praxl, B., Kirschbaum, C., Ertle, A., Asbrand, J.\*, Lueken, U.\* (2021). Mental health trajectories of individuals and families during the COVID-19 pandemic: Study protocol of a longitudinal investigation and indicated prevention program. *Mental Health & Prevention*, 24, 200221. *\*both authors contributed equally*

**Hilbert, K.**, Ertle, A. (online first). Zu Risiken und Nebenwirkungen...? Anregung zur Diskussion über potentielle Nebenwirkungen klinisch-psychologischer Diagnostik in der Psychotherapie. *Verhaltenstherapie*. DOI:10.1159/000519187

Harrewijn, A., Cardinale, E. M., Groenewold, N. A., Bas-Hoogendam, J. M., Aghajani, M., **Hilbert, K.**, ..., Winkler, A. M., Pine, D. S. (2021). Cortical and Subcortical Brain Structure in Generalized Anxiety Disorder – Findings from 28 research sites in the ENIGMA-Anxiety Working Group. *Translational Psychiatry*, 11, 502.

Roesmann, K., Leehr, E. J., Böhnlein, J., Steinberg, C., Seeger, F., Schwarzmeier, H., ... , **Hilbert, K.**, Straube, T., Junghöfer, M. (in press). Behavioral and Magnetoencephalographic Correlates of Fear Generalization Are Associated with Responses to Later Virtual Reality Exposure Therapy in Spider Phobia. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*.

Leehr, E. J., Roesmann, K., Böhnlein, J., Dannowski, U., Gathmann, B., Herrmann, M. J., ..., **Hilbert, K.** (2021). Clinical predictors of treatment response towards exposure therapy in virtual reality spider phobia: a machine learning and external cross-validation approach. *Journal of Anxiety Disorders*, 83, 102448.

Blasco, M. S., Radua, J., Soriano-Mas, C., Gómez-Benlloch, A., Porta-Casteràs, D., Carulla, M., ..., **Hilbert, K.**, ..., Cardoner, N. (2021). Structural Brain Correlates in Major Depression, Anxiety Disorders and Post-traumatic Stress Disorder: A Voxel-Based Morphometry Meta-analysis. *Neuroscience and Biobehavioral Reviews*, 129, 269-281.

**Hilbert, K.**, Jacobi, T., Kunas, S. L., Elsner, B., Reuter, B., Lueken, U., Kathmann, N. (2021). Identifying CBT non-response among OCD outpatients: a machine-learning approach. *Psychotherapy Research*, 31(1), 52-62. doi: 10.1080/10503307.2020.1839140

Kunas, S. L., Lautenbacher, L., Lueken, U., **Hilbert, K.** (2021). Psychological Predictors of Cognitive-Behavioral Therapy Outcomes for Anxiety and Depressive Disorders in Children and Adolescents: A Systematic Review and Meta-Analysis. *Journal of Affective Disorders*, 278, 614-626.

## 2020

Kunas, S. L., **Hilbert, K.**, Yang, Y., Richter, J., Hamm, A., Wittmann, A., Ströhle, A., ... Gerlach, A. L., Lueken, U. (2020). The modulating impact of cigarette smoking on brain structure in panic disorder: a voxel-based morphometry study. *Social Cognitive and Affective Neuroscience*, nsaa103, 1-11. doi: 10.1093/scan/nsaa103

Bas-Hoogendam, J. M., Groenewold, N. A., Aghajani, M., Freitag, G. F., Harrewijn, A., **Hilbert, K.**, Jahanshad, N., ... van der Wee, N. J. A., Stein, D. J. (2020). ENIGMA-anxiety working group: Rationale for and organization of large-scale neuroimaging studies of anxiety disorders. *Human Brain Mapping*, online first publication, 1–23. <https://doi.org/10.1002/hbm.25100>

Zugman, A., Harrewijn, A., Cardinale, E. M., Zwiebel, H., Freitag, G. F., Werwath, K. E., ... **Hilbert, K.**, ... Pine, D. S., Winkler, A. M. (2020). Mega-analysis methods in ENIGMA: The experience of the generalized anxiety disorder working group. *Human Brain Mapping*, online first publication, 1–23. <https://doi.org/10.1002/hbm.25096>

Walter, H., Kausch, A., Dorfschmidt, L., Waller, L., Chinichian, N., Veer, I., **Hilbert, K.** ... Kruschwitz, J. D. (2020). Self-control and interoception: linking the neural substrates of craving regulation and the prediction of aversive interoceptive states induced by inspiratory breathing restriction. *NeuroImage*, 215, 116841. 10.1016/j.neuroimage.2020.116841

Thompson, P. M., Jahanshad, N., Ching, C. R. K., Salminen, L. E., Thomopoulos, S. I., Bright, J., ... **Hilbert, K.**, ..., Zelman, V. for the ENIGMA Consortium (2020). ENIGMA and global neuroscience: A decade of large-scale studies of the brain in health and disease across more than 40 countries. *Translational Psychiatry*, 10(1), 100.

**Hilbert, K.**, Kunas, S. L., Lueken, U., Kathmann, N., Fydrich, T., Fehm, L. (2020). Predicting cognitive behavioral therapy outcome in the outpatient sector based on clinical routine data: a machine learning approach. *Behavior Research and Therapy*, 124, 103530.

**Hilbert, K.**, Lueken, U. (2020). Predictive analytics from a mental health perspective [Prädiktive Analytik aus der Perspektive der Klinischen Psychologie und Psychotherapie]. *Verhaltenstherapie*, 30, 8-17. DOI: 10.1159/000505302

## 2018

Asselmann, E., **Hilbert, K.**, Hoyer, J., Wittchen, H.-U., Lieb, R., Bühringer, G., Beesdo-Baum, K. (2018). Self-reported volitional control in adolescents and young adults from a community cohort: Associations with current, past and future mental disorders. *Psychiatry Research*, 260, 292-299.

Stefanescu, M. R., Endres, R. J., **Hilbert, K.**, Wittchen, H.-U., Lueken, U. (2018). Networks of phobic fear: Functional connectivity shifts in two subtypes of specific phobia. *Neuroscience Letters*, 662, 167-172. doi: 10.1016/j.neulet.2017.10.031

## 2017

Carlisi, C., **Hilbert, K.**, Guyer, A. E., Ernst, M. (2017). Sleep-amount differentially affects fear-processing neural circuitry in pediatric anxiety: A preliminary fMRI investigation. *Cognitive, Affective, & Behavioral Neuroscience*, 17, 1098-1113. doi: 10.3758/s13415-017-0535-7

**Hilbert, K.**, Lueken, U., Muehlhan, M., Beesdo-Baum, K. (2017). Separating generalized anxiety disorder from major depression using clinical, hormonal, and structural MRI data: A multimodal machine learning study. *Brain and Behavior*, 7(3), e00633. doi: 10.1002/brb3.633

Stedte-Schmiedgen, S., Wichmann, S., Stalder, T., Kirschbaum, C., **Hilbert, K.**, Muehlhan, M., Lueken, U., Beesdo-Baum, K. (2017). Hair cortisol concentrations and cortisol stress reactivity in generalized anxiety disorder, major depression and their comorbidity. *Journal of Psychiatric Research*, 84, 184-190. doi: 10.1016/j.jpsychires.2016.09.024

## 2016

Kirschner, H., **Hilbert, K.**, Hoyer, J., Lueken, U., Beesdo-Baum, K. (2016). Psychophysiological reactivity during uncertainty and ambiguity processing in high and low worriers. *Journal of Behavior Therapy and Experimental Psychiatry*, 50, 97-105.

## 2015

**Hilbert, K.**, Pine, D. S., Muehlhan, M., Lueken, U., Stedte-Schmiedgen, S., Beesdo-Baum, K. (2015). Gray and white matter volume abnormalities in generalized anxiety disorder by categorical and dimensional characterization. *Psychiatry Research: Neuroimaging*, 234(3), 314-320. <http://dx.doi.org/10.1016/j.psychresns.2015.10.009i>

**Hilbert, K.**, Evens, R., Maslowski, N. I., Wittchen, H.-U., Lueken, U. (2015). Neurostructural correlates of two subtypes of specific phobia: a voxel-based morphometry study. *Psychiatry Research: Neuroimaging*, 231(2), 168-175.

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## 2014

Lueken, U., **Hilbert, K.**, Stolyar, V., Maslowski, N. I., Beesdo-Baum, K., Wittchen, H.-U. (2014). Neural substrates of defensive reactivity in two subtypes of specific phobia. *Social Cognitive & Affective Neuroscience*, 9(11), 1668-1675.

**Hilbert, K.**, Evens, R., Maslowski, N. I., Wittchen, H.-U., Lueken, U. (2014). Fear processing in dental phobia during crossmodal symptom provocation: an fMRI study. *BioMed Research International*.  
<http://dx.doi.org/10.1155/2014/196353>

**Hilbert, K.**, Lueken, U., Beesdo-Baum, K. (2014). Neural structures, functioning and connectivity in Generalized Anxiety Disorder and interaction with neuroendocrine systems: A systematic review. *Journal of Affective Disorders*, 158, 114-126.

## 2012

Lau, J. Y. F., **Hilbert, K.**, Goodman, R., Gregory, A. M., Pine, D. S., Viding, E. M., Eley, T. C. (2012). Investigating the genetic and environmental bases of biases in threat recognition and avoidance in children with anxiety problems. *Biology of Mood and Anxiety Disorders*, 2(1).  
doi: 10.1186/2045-5380-2-12.

## OTHER ARTICLES:

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**Hilbert, K.**, (2015). Sind neurowissenschaftlich fundierte Biomarker im Rahmen der Behandlung psychischer Störungen denkbar? *Psychotherapeutenjournal*, 1/2015, 42-46.

## BOOKS AND BOOK CHAPTERS:

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**Hilbert, K.** (online first). AIM in Depression and Anxiety. In N. Lidströmer & H. Ashrafian (Eds.), *Artificial Intelligence in Medicine*.

**Hilbert, K.** (2017). *Neurostructural correlates and cortisol responses in generalized anxiety disorder versus other anxiety conditions and depression: evidence for specificity* (Doctoral dissertation). Dresden, DE: Technische Universität Dresden.

Beesdo-Baum, K., **Hilbert, K.** (2015). Generalized Anxiety Disorder. In D. J. Stein & B. Vythilingum (Eds.), *Anxiety Disorders and Gender*. Heidelberg, DE: Springer.

Lau, J. Y. F., **Hilbert, K.**, Gregory, A. M. (2013). Anxiety and depression in young people: Developmental considerations. In P. Graham & S. Reynolds (Eds.), *Cognitive behaviour therapy for children and families – current trends* (3rd ed.). Cambridge, UK: Cambridge University Press.