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Training / Career

- 2007-2012: Studies in Psychology (Eberhard Karls Universität Tübingen), University degree level: Diploma
- 2013-now: Research Associate in the Working Group Psychophysiology & Optical Imaging (Department of Psychiatry and Psychotherapy, University Hospital Tübingen)
- 2018 PhD Neuro and Behavioral Sciences

Research Interests

- Optimization of neurofeedback: Clinical application and underlying mechanisms
- Neurobiological Mechanisms of Psychiatric Disorders
- Neuronal Correlates of Executive Functions
- Functional Imaging (Near-infrared Spectroscopy, Electroencephalography)

Publications

Barth, B. & Ehlis, A.-C. (2019). Neurofeedback bei adulter Aufmerksamkeitsdefizit-/Hyperaktivitätsstörung. Stand der Forschung und Implikationen für die Anwendung [Neurofeedback in adult attention deficit / hyperactivity disorder. State of research and implications for application]. *Psychotherapeut*, *64*(3), 194-201.

Barth, B., Mayer-Carius, K., Strehl, U., Kelava, A., Haeussinger, F. B., Fallgatter, A. J. & Ehlis, A.-C. (2018). Identification of neurophysiological biotypes in attention-deficit/hyperactivity disorder. *Psychiatry and Clinical Neurosciences*, *27*, 836–848.

Ehlis, A.-C., **Barth, B.**, Hudak, J., Storchak, H., Weber, L., Kimmig, A.-C. S., Kreifelts, B., Dresler, T. & Fallgatter, A. J. (2018). Near-infrared spectroscopy (NIRS) as a new tool for neurofeedback trainings – Applications in psychiatry and methodological considerations. *Japanese Psychological Research*, *60*(4), 225-241.

Hudak, J., Rosenbaum, D., **Barth, B.**, Fallgatter, A. J. & Ehlis, A.-C. (2018). Functionally disconnected: a look at how study design influences neurofeedback data and mechanisms in attention-deficit/hyperactivity disorder. *PLoS One*, *13*(8), e0200931.

- Barth, B.**, Fallgatter, A. J. & Ehlis, A.-C. (2017). Neurofeedback als Behandlungsmethode bei Erwachsenen mit einer Aufmerksamkeitsdefizit-/Hyperaktivitätsstörung. *ADHS Report*, 56, 8-12.
- Barth, B.**, Mayer, K., Strehl, U., Fallgatter, A. J. & Ehlis, A.-C. (2017). EMG biofeedback training in adult attention-deficit/hyperactivity disorder: an active (control) Training? *Behavioural Brain Research*, 329, 58-66.
- Barth, B.**, Strehl, U., Fallgatter, A. J. & **Ehlis, A.-C.** (2016). Near-Infrared Spectroscopy based Neurofeedback of Prefrontal Cortex Activity: A Proof-of-Concept Study. *Frontiers in Human Neuroscience*, 10, 3389.
- Barth, B.**, Kroczeck, A., Deppermann, S., Dresler, T., Fallgatter, A. J. & Ehlis, A.-C. (2015). Epidemiologie und Pathogenese der Komorbidität von Aufmerksamkeitsdefizit-/ Hyperaktivitätsstörung (ADHS) und Sucht – Die Rolle der Exekutivfunktionen [Epidemiology and Pathogenesis of the Comorbidity of Attention-Deficit/Hyperactivity Disorder (ADHD) and Addiction – The Role of Executive Functions]. *Sucht*, 61(5), 279-291.
- Konicar, L., Veit, R., Eisenbarth, H., **Barth, B.**, Tonin, P., Strehl, U. & Birbaumer, N. (2015). Brain self-regulation in criminal psychopaths. *Scientific Reports*, 5, 9426.
- Dresler, T., **Barth, B.**, Ethofer, T., Lesch, K.-P., Ehlis, A.-C.* & Fallgatter, A. J.* (2014). Imaging genetics in adult attention-deficit / hyperactivity disorder (ADHD): A way towards pathophysiological understanding? *Borderline Personality Disorder and Emotion Dysregulation*, 1, 6.
- Veit, R.*, Konicar, L.*, Klinzing, J. G., **Barth, B.**, Yilmaz, Ö. & Bierbaumer, N. (2013). Deficient fear conditioning in psychopathy as a function of interpersonal and affective disturbances. *Frontiers in Human Neuroscience*, 7, 706.

* indicates shared authorship

Conference Contributions

- Barth, B.**, Mayer-Carius, K., Strehl, U., Kelava, A., Haeussinger, F. B., Fallgatter, A. J., Ehlis, A.-C. Neurophysiological intermediate Phenotype Profiles in Attention-Deficit/Hyperactivity Disorder. Poster presentation: Organization for Human Brain Mapping's 2018 Annual Meeting, Singapore.
- Barth, B.**, Hudak, J., Blume, F., Marx, A.-M., K. Mayer, K. U. Strehl, U., Ehlis, A.-C., Fallgatter, A. J. (2017). NIRS neurofeedback in patients with ADHD. 30th European Neuropsychopharmacology Congress, Paris.
- Barth, B.**, Ehlis, A.-C., Mayer, K., Strehl, U., Fallgatter, A. J. (2016). Neurofeedback als Behandlungsmethode für Erwachsene mit einer Aufmerksamkeitsdefizit-/Hyperaktivitätsstörung (ADHS). 16. Jahrestagung der Deutschen Gesellschaft für Biofeedback e.V., Berlin.
- Barth, B.**, Ehlis, A.-C., Mayer, K., Fallgatter, A. J., Strehl, U. (2016). Ist die Wirksamkeit der Behandlung mit Neurofeedback bei Erwachsenen gesichert? 7. Saarbrücker ADHS-Kongress 2016, Universität des Saarlandes Saarbrücken.
- Barth, B.**, Ehlis, A.-C., Mayer, K., Haeussinger, F. B., Fallgatter, A. J. & Strehl, U. (2015). SCP- and NIRS neurofeedback as a treatment method in adult attention-deficit/hyperactivity disorder (poster presentation: Organization for Human Brain Mapping's 2015 Annual Meeting, Honolulu).
- Barth, B.**, Ehlis, A.-C., Mayer, K., Haeussinger, F. B., Fallgatter, A. J. & Strehl, U. (2015). NIRS-neurofeedback as a treatment method in adult attention-deficit/hyperactivity disorder (poster presentation: 5th World Congress on ADHD 2015, Glasgow).
- Barth, B.** (2015). NIRS neurofeedback as a treatment method in adult attention-deficit/hyperactivity disorder (ADHD) (*Real-time Functional Imaging and Neurofeedback 2015, Gainesville, University of Florida*).
- Barth, B.**, Ehlis, A.-C., Mayer, K., Fallgatter, A. J. & Strehl, U. (2014). NIRS-Neurofeedback as a treatment method in adult attention-deficit/hyperactivity disorder (ADHD) (23. Deutsches EEG/EP Mapping Meeting 2014, Justus-Liebig Universität

Gießen).

- Barth, B.**, Ehlis, A.-C., Mayer, K., Wyckoff, S., Fallgatter, A. J. & Strehl, U. (2014). NIRS-Neurofeedback als Behandlungsmethode bei erwachsenen Patienten mit einer Aufmerksamkeits-/ Hyperaktivitätsstörung (ADHS) (*poster presentation: 40. Tagung Psychologie und Gehirn 2014, Universität Lübeck*).
- Barth, B.**, Ehlis, A.-C., Strehl, U., Fallgatter, A. J., Mayer, K. & Wyckoff, S. (2013). Investigation of NIRS-Neurofeedback as a treatment method in adult ADHD: preliminary data (*poster presentation: 22. Deutsches EEG/EP Mapping Meeting 2013, Justus-Liebig Universität Gießen*).