

# Agnieszka Zuberer

## Curriculum Vitae

Clinical Affective Neuroscience Laboratory  
Department of Psychiatry and Psychotherapy  
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## Academic Background

### Current Position

- Oct 2020 – **Research Scientist.** Clinical Affective Neuroscience Laboratory, Department of Psychiatry and Psychotherapy, University Hospital Tübingen, USA.  
Oct 2020 – **Research Scientist.** Department of Psychiatry and Psychotherapy, Friedrich-Schiller University, Jena, Germany.

### Previous Positions

- Oct 2018 – **Research Scientist.** Boston Attention And Learning Laboratory, Boston University, School of Medicine, Boston, USA.  
Jan 2018 – **Research Scientist.** Department of Psychiatry and Psychotherapy, University Hospital Tübingen, Germany.  
May 2017 – **Adjunct Researcher.** Department of Child and Adolescent Psychiatry, Psychiatric University Hospital. University of Zürich, Zürich, Switzerland.  
Nov 2013 – **Predoctoral Fellow.** Department of Child and Adolescent Psychiatry, Psychiatric University Hospital, University of Zürich, Zürich, Switzerland.  
Jun – Sep 2012 **Research Assistant.** Berlin School of Mind and Brain, Humboldt University, Berlin, Germany.  
Jun – Aug 2007 **Research Assistant.** Department for Childhood and Adolescent Mental Health. University Hospital Erlangen, Erlangen, Germany.

## Education

- Nov 2013 – **Dr. lic. phil. (Ph.D.) Psychology,** Department of Child and Adolescent Psychiatry, Psychiatric University Hospital, University of Zürich, Zürich, Switzerland.  
Mar 2013 **M.Sc. Psychology.** University of Zürich, Zürich, Switzerland.  
Oct 2004 – **Studies of Psychology (Dipl.).** Minor in pedagogy. Otto-Friedrich University, Bamberg, Germany.  
Jul 2008

## Honors and Awards

- Sept 2018 **Swiss National Science Foundation (SNF) Postdoc Mobility Grant,** *Project Title: Harnessing the wandering mind in ADHD - On the association between the awareness and control of one's own wakefulness*, \$80,000 USD.  
June 2018 **Joe Kamyia First-Person Science Award,** *Brain Master Technologies*, \$1000 USD.  
Apr. 2017 **Travel Grant,** *Multilevel modeling of neurofeedback EEG-learning in children and adolescents with ADHD*, 6th world congress on ADHD, Vancouver, Canada.  
\$1000 USD

**Oct. 2015 Best research presentation**, *Burghölzli Psychiatry meeting*, Zürich, Switzerland, \$300 USD.

## Publications

[\* equal contribution]

### In preparation

**Zuberer, A.**, Rickels-Jagger, A., Stumps, A., Evans, T., DeGutis, J., A. & Esterman, M. (in prep). Using fMRI graph metrics to define an attention sub-type in post-traumatic stress disorder.

**Zuberer, A.**, Watanabe, M., Esterman & M., Lazar, S. (in prep). Coupling between subjective and objective attention improves after meditation in the elderly.

Babb, J., **Zuberer, A.**, Heinrichs, S., Alfiler, L., Rumbika, K., Lakis, G., Leite-Morris, K. & Kaplan, K. (in prep). Mild blast-related TBI in a mouse model alters amygdalar neurostructure and circuitry: novel insights from a longitudinal design.

Fortenbaugh, F., Gustafson, J., **Zuberer, A.**, Fonda, J., Fortier, C., Milberg, W. & McGlinchey, R. (in prep). Retinal Structural Changes Associated with Blast-Induced Mild Traumatic Brain Injury Identified on OCT Imaging.

Jagger-Rickels, A., Stumps, A., Rothlein, D., Park, H., Fortenbaugh, F., **Zuberer, A.**, Fonda, J., Fortier, C., DeGutis, J., Milberg, W. & Esterman, M. (under review). Impaired executive function exacerbates neural markers of PTSD. *Psychological Medicine*.

### Peer reviewed publications

**Zuberer, A.**, Kucyi, A., Yamashita, A., Wu, C., Walter, M., Valera, E. & Esterman, M. (in press). Integration and segregation across large-scale intrinsic brain networks as a marker of sustained attention and task-unrelated thought. *Neuroimage*. [PDF](#)

**Zuberer, A.\***, Jamalabadi\*, H., Kumar, V., Li, M., Alizadeh, S., Moradi, A. , Esterman, M. & Walter, M. (in press). The missing role of gray matter in brain controllability. *Network Neuroscience*. [PDF](#)

**Zuberer, A.**, Schwarz, L., Kreitfeldts, B., Wildgruber, D., Erb, M., Fallgatter, A. , Scheffler, K. & Ethofer, T. (in press). Neural basis of impaired emotion recognition in adult attention deficit hyperactivity disorder. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*. [PDF](#)

Minder, F., **Zuberer, A.**, Brandeis, D. & Drechsler, R. (2019). Specific Effects of Individualized Cognitive Training in Children with Attention-Deficit/Hyperactivity Disorder (ADHD): The Role of Pre-Training Cognitive Impairment and Individual Training Performance. *Developmental Neurorehabilitation*, 22:6, 400-414, DOI: 10.1080/17518423.2019.1600064. [PDF](#)

**Zuberer, A.**, Minder, F., Brandeis, D. & Drechsler, R. (2018). Mixed-effects modeling of neurofeedback self-regulation performance: moderators for learning in children with ADHD. *Neural Plasticity*. <https://doi.org/10.1155/2018/2464310>. [PDF](#)

Minder, F., **Zuberer, A.**, Brandeis & D., Drechsler, R. (2018). Informant-related effects of Neurofeedback and cognitive training in children with ADHD including a waiting control phase: a randomized-controlled trial. *European child & adolescent psychiatry*. [PDF](#)

Minder, F., **Zuberer, A.**, Brandeis, D. & Drechsler, R. (2018). A review of the clinical utility of systematic behavioral observations in Attention Deficit Hyperactivity Disorder (ADHD) *Child Psychiatry & Human Development*. [PDF](#)

**Zuberer, A.**, Minder, F., Brandeis, D. & Drechsler, R. (2015). Are treatment effects of neurofeedback training in children with ADHD related to the successful regulation of brain activity? A review on the learning of regulation of brain activity and a contribution to the discussion on specificity. *Frontiers of human neuroscience*. [PDF](#)

### Book chapters

**Zuberer, A.**, Ilieva I. & Drechsler, R. (2018), Review of Test of planning ability in primary school children, in Schellig, D., Heinemann, D., Schächtele, B., Sturm, W. (ed.) *Handbook of Neuropsychological Tests*. Hogrefe.

## Academic Supervision

**Krimmelbein, S.** (2017). Event-related EEG desynchronization during EEG-Neurofeedback training. Masters thesis, University of Zürich.

**Ngo, T.** (2017). Relating microstates in EEG-Neurofeedback training to the performance in a classification task of spontaneous arousal. Masters thesis, University of Zürich.

**Riz a Porta, R.** (2016). Electrophysiological indicators of learning and effort during slow cortical potential neurofeedback training in healthy adults: Analysis of inter- and intra-session courses and its relationship with performance and effort in a continuous performance test. Masters thesis, University of Zürich.

**Meier, P.** (2016). Analysis of the specific efficacy of neurofeedback training in ADHD children and adolescents. Masters thesis, University of Zürich

**Hromkovic, P.** (2016). Computer based cognitive training for children and adolescents suffering from ADHD. Masters thesis, University of Zürich.

**Nadig, M.** (2016). Optimierung des Neurofeedback-Trainings und des kognitiven Trainings: Förderung des Transfers für Kinder mit ADHS. Master thesis, University of Zürich.

## Teaching

- Dec 2020 Attention Deficit Hyperactivity Disorder: a clinical introduction. Friedrich-Schiller-University Jena, department of medicine, Boston, USA.
- May 2019 Modeling inter- and intra-individual variability in longitudinal designs. VA Boston Healthcare System, Jamaica Plain Campus, Boston, USA.
- Nov 2018 Introduction to linear and generalized mixed-effects modeling. VA Boston Healthcare System, Jamaica Plain Campus, Boston, USA.
- Jan 2017 Neurofeedback as a therapeutical instrument. Theoretical introduction and practical workshop. Lecturer. Pluspunkt Zentrum für Prävention, Therapie und Weiterbildung. Jona, Switzerland.
- Jan 2016 Theory and practical Implications of Neurofeedback as a therapeutic instrument. Department of Child and Adolescent Psychiatry, Psychiatric University Hospital, University of Zürich, Switzerland.
- Sep 2015 Neuropsychology of ADHD. Institute of Psychology, University of Zürich, Switzerland.
- Apr 2015 A critical view on the specificity and efficacy of Neurofeedback for Attention Deficit Hyperactivity Disorder. Department for developmental and personality psychology, University of Basel, Switzerland.
- Mar 2015 Training the self-regulation of attention. Meditation and Neurofeedback: Common grounds and differences. Brain Fair. Berufsschule Bülach, Bülach, Switzerland.
- Feb – Jul. 2015 Introduction to child and adolescent psychiatry with focus on ADHD. Institute for Psychology, University of Zürich, Switzerland.

- Aug 2014 Introduction to child and adolescent psychiatry with focus on ADHD. Institute of Psychology, University of Zürich, Switzerland.
- Dec 2014 Neuropsychology of ADHD. . Institute of Psychology, University of Zürich, Switzerland.

## Professional Service

**Board of Directors** The Foundation for Neurofeedback and Neuromodulation Research (FNNR). (Since Mar 2017).

**Ad-hoc Reviewer** for Nature Human Behaviour, Biological Psychology, Cognitive Therapy and Research, Journal of Abnormal Psychology & Research in Developmental Disabilities.

## Skills

- Languages** English (fluent), German (mother tongue), Polish (mother tongue), French (C1), Latin (Latin proficiency certificate), Italian (A1), & Mandarin (A1).
- Programming Languages** Proficient in MATLAB, R, Python, and L<sup>A</sup>T<sub>E</sub>X.
- Tutoring** Tutoring students in statistics. Teaching German as a foreign language for children, adolescents, & adults (Sep 2003 – Oct 2014).