

*Arndt-Lukas Klaassen*

**Personal Details**

Address: Gutenbergstrasse 11  
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E-Mail: Arndt-Lukas.Klaassen@unifr.ch  
Date of birth: 31 May 1982  
Place of birth: Soest, Germany  
Nationality: German



**Education and Qualifications**

- Since Jan 2021 **Postgraduate Education in Psychotherapy (PSP)**, Basel, Switzerland  
Cognitive behavioral therapy
- Since Nov 2015 **University of Fribourg**, Fribourg, Switzerland  
Phd in Psychology (Cognitive Neuroscience), sleep and cognitive functioning in humans and rats, Lemanic Neuroscience Doctoral School
- Feb 2014 – Oct 2015 **University of Fribourg**, Fribourg, Switzerland  
MSc in Psychology (Cognitive Neuroscience)  
  
MSc thesis: „The effects of levels of processing and sleep on memory and its underlying theta activity“
- Oct 2010 – Sep 2013 **University of Hagen**, Hagen, Germany  
BSc in Psychology (Distance-Education)  
  
BSc Thesis: „Der Einfluss dyadischer Regulationskompetenz auf kindliches Temperament – eine klinische Perspektive“
- Oct 2010 – Sep 2013 **University of Hagen**, Hagen, Germany  
Economic Sciences (Distance-Education), passed performance-based entrance examination for access to University-level studies
- Aug 2000 – Jul 2003 **Borg Warner Turbo Systems**, Kirchheimbolanden, Germany  
Apprenticeship as Metalcutting Mechanic (CNC-controlled machines)

**Fellowship**

- Oct 2016 – Dec 2019 **Doc.CH Grant, Swiss National Science Foundation, University of Fribourg**  
“A cross-species study of the impact of sleep on rule generalization learning and its underlying neocortical activities in humans and rats”

**Research and Clinical Work Experience**

- Since August 2021 **Kinder- und Jugendpsychiatrie, Universitäre Psychiatrische Dienste (UPD), Bern**  
Assistant psychologist: suicide prevention therapy; Clinical researcher: neuromarkers for early detection of psychotic disorders
- March 2021 – July 2021 **Ambulatorium für Erwachsene, Psychiatrie Zentrum Oberwallis, Spital Wallis**  
Postgraduate psychologist: individual therapy
- November 2020 – February 2021 **Tagesklinik für Erwachsene, Psychiatrie Zentrum Oberwallis, Spital Wallis**  
Postgraduate psychologist: individual and group therapy
- October 2014 – June 2015 **Cognitive Biopsychology and Methods, University of Fribourg**,  
Research assistant: Assisted in the sleep laboratory, data analysis with MATLAB, support for Bachelor students
- November 2014 – March 2015 **Visual Cognition Laboratory, University of Fribourg**,  
Research internship: Data analysis of local field potentials in rats with MATLAB
- June 2014 – September 2014 **Cognitive Biopsychology and Methods, University of Fribourg**,  
Research internship: Analysis of slow oscillations, sleep spindles and their synchronized interplay for large sample, analysis in MATLAB
- February 2014 – July 2014 **Fakultät für Psychologie und Pädagogik, Ludwig Maximilians Universität München**,  
Research assistant: Behavioral data processing of mother-child interaction with MATLAB
- April 2013 – May 2013 **Station von Gebsattel, Allgemeine Psychiatrie, Universitätsklinikum Heidelberg**,  
Clinical internship: Patients with anxiety and depression disorders, assisted in test diagnostic, group therapy and exposition treatments

August 2011 – October 2013

**Mutter-Kind-Projekt, Allgemeine Psychiatrie, Universitätsklinikum Heidelberg,**  
Research assistant: Mother-child interaction studies on postpartal depression and anxiety disorders, mother-child relationship and childhood development, data management and analysis in Excel, SPSS and R

April 2011 – July 2011

**Mutter-Kind-Projekt, Allgemeine Psychiatrie, Universitätsklinikum Heidelberg,**  
Research internship in mother-child interaction studies, assisted in data management and analysis in Excel and SPSS

## Publications

**Klaassen, A.-L.,** Heiniger, A., Sánchez, P. V., Harvey, M. A., & Rainer, G., Ventral Pallidum Regulates the Default Mode Network, Controlling Transitions Between Internally and Externally Guided Behavior; Proceedings of the National Academy of Sciences, 2021.

Dimanico, M. M.\*, **Klaassen, A.-L.\*** Wang, J., Harvey, M. A., Kaeser, M., Rasch, B., & Rainer, G., Aspects of tree shrew consolidated sleep structure resemble human sleep; Communications Biology, 2021. \*Equal contribution

Azimi, H., **Klaassen, A.-L.,** Thomas, K., Harvey, M. A., & Rainer, G., Role of the Thalamus in Basal Forebrain Regulation of Neural Activity in the Primary Auditory Cortex; Cerebral Cortex, 2020.

Nair, J., **Klaassen, A.-L.,** Arato, J., Vyssotski A., Harvey, M., & Rainer G., The basal forebrain contributes to default mode network regulation; Proceedings of the National Academy of Sciences, 2018.

Nair, J., **Klaassen, A.-L.,** Poirot, J., Vyssotski A., Rasch, B., & Rainer G., Gamma band directional interactions between basal forebrain and visual cortex during wake and sleep states; Journal of Physiology Paris, 2016.

## Work Experience

January 2010 – February 2011

**Borg Warner Turbo Systems,** Kirchheimbolanden, Germany  
Lean Production Division, responsible for optimisation of warehouse and production logistics

February 2009 – December 2009

**Borg Warner Turbo Systems,** Kirchheimbolanden, Germany  
Lean Production & Organisational Development, assisted head of production in productivity analysis

February 2008 – December 2008

**Borg Warner Turbo Systems,** Kirchheimbolanden, Germany  
Organisational Development, team-building project, headed team-building workshops on the production floor of a low-performing production center in close cooperation with head of production center

September 2007 – January 2008

**Borg Warner Turbo Systems,** Kirchheimbolanden, Germany  
Organisational Development, Project on partly autonomous teams, responsible for development of team-building workshops across all production centers

August 2003 – August 2007

**Borg Warner Turbo Systems,** Kirchheimbolanden, Germany  
Responsible for manufacturing of turbo-chargers (CNC-controlled machines)