



Name: Frederick Junker  
Date of Birth: June 28<sup>th</sup>, 1987  
Nationality: German

### ACADEMIC QUALIFICATIONS

Since 07/2016                      Doctoral studies at the Department of Neuropsychology  
(Ruhr-University Bochum)

10/2014 – 06/2016                Master of Science Biology  
(Ruhr-University Bochum)

*Thesis title: "The influence of sensory stimulation-protocols on tactile discrimination performance and cortical processing"*

10/2010 – 09/2014                Bachelor of Science Biology  
(Ruhr-University Bochum)

*Thesis title: The influence of repetitive sensory stimulation-protocols on tactile discrimination measured with active touch"*

### EMPLOYMENT

09/2015 until 03/2016            *Research assistant*  
Neural Plasticity Lab at the Ruhr-University Bochum  
(Supervisor: Dr. Hubert Dinse)

03/2014 until 08/2015            *Student Assistant*  
Haptec Research & Technology GmbH  
Main emphasis: Tactile perception  
(Supervisor: Dr. Hubert Dinse)

### RESEARCH

In my thesis I investigate different forms of information processing and its impact on memory. I am particularly interested in multimodal or holistic learning, which goes hand in hand with an improved memory performance. To study these processes, I use characters of the Morse alphabet, which are ideal because of their perceptual and semantic properties. I also would like to examine the neural correlates of skill acquisition which can be found using modern fMRI methods. Furthermore, I am interested perceptual learning processes and the interaction of the individual sensory modalities.