

## PERSONAL INFORMATION

**Roland Eric BERKEMEIER**

Email: ro.berkemeier@outlook.com

Sex: **Male**

Date of birth: 1985-10-19

Place of birth: Singapore, the Republic of Singapore

Nationality: **German**

Family status: **Unmarried**

## PERSONAL STATEMENT

A biology graduate with strong organisational skills and a fondness of teaching, now interested in brain-computer interface research and neurorobotics

## WORK EXPERIENCE

Oct 2013 - present

**Research Associate at the University Medical Center Freiburg**

Dpt. of Neurosurgery, Translational Neurotechnology Lab ([www.tnt.uni-freiburg.de](http://www.tnt.uni-freiburg.de))

- Project-related research for DFG-funded BrainLinks-BrainTools cluster of excellence, esp. within the interdisciplinary neurobiological-neurophilosophical project "Mechanized Brains"
- Conception and execution of electrophysiological experiments
- Development of computational processing pipelines for electrophysiological and fMRI imaging data
- Teaching of undergraduate and graduate courses
- Supervision of undergraduate and graduate short-term research projects and seminars
- Evaluation and grading of undergraduate (B.Sc.) research and theses
- Evaluation of graduate (M.Sc.) research and theses
- IT systems and website administrator
- Lab health and safety officer

**Achievements in this role include:**

- Development of a new process for surface-constrained, multi-scale fMRI analyses
- Acquisition of DFG research funding (within grant no. EXC 1086)
- Presentation of research at international conferences and workshops (e.g. OHBM Conference Honolulu 2016, Symposium on Cognitive Neuroscience Prague 2016, DGKN Conference Leipzig 2017)
- Organisation of Early-Career Scientists' Workshops

Sector Neuroscientific research and management

Jun 2013 - Sep 2013

**Student Assistant at the University Medical Center Freiburg**

Dpt. of Neurosurgery, Translational Neurotechnology Lab ([www.tnt.uni-freiburg.de](http://www.tnt.uni-freiburg.de))

- Project-related research
- IT systems administrator

Sector Neuroscientific research

Mar 2012 - Jan 2014

**Student Assistant at Nagoya University European Center (Freiburg)**

([www.nagoya-u.ac.jp/en](http://www.nagoya-u.ac.jp/en))

- Coordination with administrative services at Albert-Ludwigs-University Freiburg
- Organisation of seminars and visits by Nagoya University officials and guest researchers
- Public relations work at the international "Study in Japan" Fair, Berlin 2014
- Translating and interpreting (German/French to English)
- Written correspondence for Nagoya University (German, English, French, Japanese)
- IT systems and website administration

Sector International Academic management

EDUCATION AND TRAINING

Oct 2010 - May 2013

German University Diploma (M.Sc. equivalent)

Faculty of Biology, Albert-Ludwigs-University Freiburg, Germany

- **Major:** Neurobiology and –physiology
- **Minors:** Microbiology, Biomechanics, Japanese language

※ Sep 2009-Aug 2010:

International Exchange Student at Matsuyama University, Ehime, Japan supported by JASSO Student Exchange Support Program Scholarship

PERSONAL SKILLS

Mother tongues English, German

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
French	C2	C2	C2	C2	C2
Baccalauréat (French Certificate of Secondary Education)					
Japanese	C1	B2	C1	B2	B2
Not certified. Estimated aptitude is JLPT N2; currently preparing for JLPT N1.					

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user  
[Common European Framework of Reference for Languages](#)

Communication skills

- Good intercultural and multilingual communication skills gained through my work in a large and ethnically diverse research lab, and through my volunteer work at local German-Japanese cultural events (e.g., annual fundraisers for the NPO *Okinawa Kuminosato*: <http://kuminosato.net/english-2/>)
- Experienced interpreter (English-German-French-Japanese) gained during international kyudo (Japanese archery) seminars and my work with the Nagoya University European Center

Organisational / managerial skills

- Leadership and teaching skills gained through my handling of undergraduate courses (since 2014), and as a kyudo instructor (since 2011)
- Good organisational skills gained as a member of the BrainLinks-BrainTools Junior Scientist organisational committee

Job-related skills

- Experienced in prepping of test subjects for electrophysiological and fMRI measurements

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient	Proficient	Proficient	Proficient	Proficient

Levels: Basic user - Independent user - Proficient user  
[Digital competences - Self-assessment grid](#)

- Comfortable in Mac OS, Microsoft Windows, Ubuntu
- Good command of office suite (word processor, spread sheet, presentation software)
- Good command of image editing software gained as an amateur photographer
- Good command of MathWorks MATLAB, Python
- Intermediate command of HTML5 and CSS gained as website administrator; can create simple HTML animations and interactive objects (examples: <http://codepen.io/matsuhime/>)

Driving licence

EU class B driving licence up to 3.5 t

## ADDITIONAL INFORMATION

Publications  
Presentations  
Conferences

**Peer-reviewed conference papers:**

- P. Kellmeyer, R. Berkemeier, T. Ball; *Varying the spatial observation scale in the analysis of an fMRI language task leads to substantially differing functional interpretations*. DGKN 61<sup>st</sup> Annual Conference, Leipzig 2017, to be published in *Clinical Neurophysiology*.

**Poster presentations:**

- R. Berkemeier, O. Speck, T. Ball; *Surface-based multi-scale network analysis of visuo-motor brain activity: a human 3T fMRI study*. OHBM Annual Meeting Honolulu 2015.

**Invited talks:**

- R. Berkemeier, J. Hammer; *Robust representation of movement speed in high-gamma EEG?* Symposium on Cognitive Neuroscience, Motol University Hospital, Prague 2016.
- R. Berkemeier; *Science Jam: Literatur und Wissenschaft treffen sich zum Jüngsten Gericht*. Festival science+fiction, Basel 2017.

References are available on request.