

Nadine Spychala

Curriculum Vitae

Education

2016 – 2019 **Master of Arts in Philosophy,**
Carl-von-Ossietzky University, Oldenburg

2013 – 2016 **Master of Science in Neurocognitive Psychology,**
Carl-von-Ossietzky University, Oldenburg

2009 – 2012 **Bachelor of Science in Psychology,**
University of Hamburg, Hamburg

Master Thesis

Title *The dynamics of integrated information in variational inference: a simulation study*
Supervisor Professor Dirk Ostwald
Description In this thesis, I investigated the dynamics of integrated information in variational inference using an integrated information measure for time-series models (Barrett & Seth, 2011) and black-box variational inference (Ranganath, Gerrish, & Blei, 2016).

Master Thesis

Title *Towards free robotic hand control with EEG motor imagery*
Supervisors Professor Stefan Debener & Dr. Niclas Braun
Description In this thesis, I investigated robotic hand control via motor imagery and experiences of embodiment in an EEG brain-computer interface.

Bachelor Thesis

Title *Non-random samples in psychological research*
Supervisors Professor Martin Spieß & Dr. Nils Skotara
Description In this thesis, I investigated how generalizable findings are in experimental psychology taking into account different sampling methods.

Experience

Work

01/2018 – 02/2019 **Data analyst,** DEPARTMENT OF HUMAN MEDICINE,
CARL VON OSSIETZKY UNIVERSITY, Oldenburg. Data analyst in medical education research.

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- 04/2016 – **Teaching assistant**, DEPARTMENT OF PHILOSOPHY,
07/2016 CARL VON OSSIETZKY UNIVERSITY, Oldenburg. Teaching assistant for Practical Philosophy in philosophy class (Prof. Frank Kuhne).
- 10/2015 – **Teaching assistant**, NEUROPSYCHOLOGY LAB, CARL VON OSSIETZKY
02/2016 UNIVERSITY, Oldenburg. Teaching assistant for EEG methods in psychology class (Prof. Stefan Debener).
- 11/2011 – **Research assistant**, BIOLOGICAL PSYCHOLOGY & NEUROPSYCHOLOGY,
07/2012 UNIVERSITY OF HAMBURG, Hamburg. Research assistant for conducting EEG and behavioral experiments with subjects wearing cochlea implants (Prof. Brigitte Röder).
- 02/2011 – **Teaching assistant in the seminar *Ideas of Man***, INSTITUTE OF
08/2011 PSYCHOLOGY, Hamburg. Teaching assistant for non-mainstream topics in psychology.

Internships and Further Education

- 11/2019 **Brainhack Global**, *Sonifying EEG*, CHILD MIND INSTITUTE, New York.
- 03/2019 **Spring school**, *International Interdisciplinary Computational Cognitive Science Spring School (IICSSS)*, BERNSTEIN CENTER FREIBURG, Freiburg.
- 03/2019 **Brainhack**, *Deep Frankenstein: dissecting and sewing artificial neural networks*, UNIVERSITY OF WARSAW, Warsaw (Piotr Migdał & Katarzyna Kańska).
- 01/2018 **Conference**, *Predictive Processing: Reconstructing the Mind?* CENTRE FOR RESEARCH IN THE ARTS, SOCIAL SCIENCES AND HUMANITIES (CRASSH), UNIVERSITY OF CAMBRIDGE, Cambridge.
- 08/2017 **Summer school**, *The Free Energy Principle – a unifying brain theory?* GERMAN NATIONAL ACADEMIC FOUNDATION, Rot an der Rot, Bavaria (Prof. Felix Blankenburg & Prof. Dirk Ostwald).
- 06/2017 **Conference**, *Causation, Explanation, Conditionals*, GRADUATE SCHOOL OF SYSTEMIC NEUROSCIENCES, BERNSTEIN CENTER FOR COMPUTATIONAL NEUROSCIENCE & MUNICH CENTER FOR MATHEMATICAL PHILOSOPHY, Munich.
- 08/2015 **Summer school**, *Am I too complex? System-theoretical approaches in psychological research and practice*, GERMAN NATIONAL ACADEMIC FOUNDATION, Neubuern, Bavaria (Prof. Stefan Scherbaum).
- 10/2014 – **Semester abroad**, DEPARTMENT OF COGNITIVE SCIENCE, JAGIELLONIAN
02/2015 UNIVERSITY, Cracow.
- 10/2014 – **Internship**, CONSCIOUSNESS LABORATORY, INSTITUTE OF
01/2015 PSYCHOLOGY, JAGIELLONIAN UNIVERSITY, Cracow. In this research internship, I investigated the relationship between pain and the sense of ownership using electrical stimuli and the rubber hand illusion (Prof. Michał Wierzchoń).
- 06/2013 – **Internship**, EQUALITY CALIFORNIA, Los Angeles. Internship in human rights
08/2013 work, working on the public education projects *The Breakthrough Conversation & Health Happens With Equality*. Initiating a project on biphobia.
- 10/2012 – **Internship**, CHILDREN FOR TOMORROW, UNIVERSITY MEDICAL CENTER
01/2013 HAMBURG-EPPENDORF, Hamburg. Internship in pedagogical psychology. Supporting and implementing psychosocial programs for refugee children and adolescents.
- 07/2011 – **Internship**, ASCLEPIOS CLINIC HARBURG. Internship in the psychiatric and
09/2011 psychotherapeutic ward with focus on personality disorders and psychotraumatology. Experience as a co-therapist.

Other Extracurricular Activities

- 08/2019 – 12/2019 **Volunteer**, GROWNYC, New York. Environmental sustainability volunteer in New York's Zero Waste and Greenmarket programs.
- 04/2015 – 07/2016 **Teaching assistant**, LANGUAGE CENTRE, CARL VON OSSIETZKY UNIVERSITY, Oldenburg. Teaching assistant in German for refugees.
- 03/2016 **Language stay**, TURKISH EYE LANGUAGE CENTRE, Izmir. Intense Turkish language course.
- 03/2015 **Seminar**, GERMAN NATIONAL ACADEMIC FOUNDATION, *The post-soviet space in the 21st century – political and economic challenges between Russia and the European Union*, Tallinn.
- 04/2014 – 04/2015 **Seminar**, CARL VON OSSIETZKY UNIVERSITY, *Recognizing, Knowing, Justifying*, Oldenburg.
- 08/2014 **Seminar**, GERMAN NATIONAL ACADEMIC FOUNDATION, *Україна? – Ukraine! Questions concerning the political and economic future of the Ukraine and the return to old block thinking*, Kiev.
- 12/2012 **Seminar**, UNIVERSITY OF HAMBURG, *Mental Health of Refugee Children and Adolescents Originating from War and Conflict Areas*, Hamburg.
- 08/2012 **Language stay**, LIDEN & DENZ LANGUAGE CENTRE, St. Petersburg. Intense Russian language course.

Computer Skills

Programming Languages R, MATLAB, PYTHON

Language Skills

German Mother tongue
Polish Mother tongue
English Fluent
French Advanced
Spanish Intermediate
Russian Elementary
Turkish Beginner
Arabic Beginner

Publications/scientific contributions

- Article Fincke, F., Prediger, S., Schick, K., Fürstenberg, S., Spsychala, N., Berberat, P. O., Harendza, S., Kadmon, M. (2019). Entrustable professional activities and facets of competence in a workplace-based assessment for final year undergraduate medical students. *Medical Teacher*. In review.
- Article Spsychala, N., Debener, S., Bongartz, E., Müller, H. H. O., Philipsen, A., Thorne, J., & Braun, N. (2019). Exploring Self-Paced Embodiable Neurofeedback for Post-Stroke Motor Rehabilitation. *Frontiers in Neuroscience*.
- Article Braun, N., Debener, S., Spsychala, N., Bongartz, E., Sorös, P., Müller, H. H. O., & Philipsen, A. (2018). The senses of agency and ownership: a review. *Frontiers in Psychology*.
- Article Siedlecka, M., Spsychala, N., Łukowska, M., Wiercioch, K., & Wierzchoń, M. (2017). Rubber hand illusion increases pain caused by electric stimuli. *The Journal of Pain*.

Poster *Towards embodied feedback for post-stroke rehabilitation*, presented at the 6TH MIND, BRAIN & BODY SYMPOSIUM, MIND & BRAIN SCHOOL BERLIN, 15th March 2018, Berlin.

Poster *Towards free robotic hand control with EEG motor imagery*, presented at the 4TH MIND, BRAIN & BODY SYMPOSIUM, MIND & BRAIN SCHOOL BERLIN, 16th March 2016, Berlin.

Scholarships

10/2014 – Erasmus+ scholarship holder
02/2015

2010 – Scholarship holder of the German National Academic Foundation
2018