

# 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 Human 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.

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## Scholarships

10/2014 – Erasmus+ scholarship holder  
02/2015

2010 – Scholarship holder of the German National Academic Foundation  
2018