

Curriculum Vitae

NILS WINTER

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PROFESSIONAL SUMMARY

Research assistant working at the intersection of Psychiatry, Neuroimaging and Computer Science. Developing neuroimaging-based predictive models of psychiatric disorders to improve treatment and diagnosis.

WORK EXPERIENCE

01/2018 - currently

**Research Assistant, Translational Psychiatry,
University Hospital Münster, Germany**

Responsibilities:

- Development of Python-based Hyperparameter Optimization Toolbox for Neural Nets (PHOTON)
- Machine learning-based predictive models of affective disorders

01/2017 – 12/2017

**Research Assistant, Department of Psychiatry,
Psychosomatic Medicine and Psychotherapy, University
Hospital Frankfurt, Germany**

Responsibilities:

- Genome-based prediction of treatment response in patients with Bipolar Disorder using Deep Neural Network models

12/2013 – 12/2016

**Student Assistant, Department of Cognitive
Psychology II, University of Frankfurt, Germany**

Responsibilities:

- Application of multivariate pattern recognition algorithms to neuroimaging and behavioral data
- Preparation of seminars and exams in cognitive psychology

EDUCATION

2014 - 2016

Master of Science, Psychology, First-class degree,
University of Frankfurt, Germany

2011 - 2014

Bachelor of Science, Psychology, First-class degree,
University of Frankfurt, Germany

INTERNSHIPS

02/2016 - 04/2016

Institute of Neuroscience and Psychology, Centre for Cognitive Neuroimaging, Glasgow, UK

Supervisor:

- Dr Guillaume Rousselet

Responsibilities:

- Development of MATLAB Toolbox for Bayesian Hypothesis Testing

02/2014 - 04/2014

One Step Ahead, Notebaert Consulting, Frankfurt

Consulting and Coaching

Responsibilities:

- Developing and carrying out of coaching and seminars on neuroscience for companies

ADVANCED TRAINING

Member of Otto-Creutzfeld-Center for Behavioral and Cognitive Neuroscience, University of Münster

- Attending courses on statistics, mathematics and neurobiology

LANGUAGES

German – Native speaker

English – Full working proficiency

ADDITIONAL SKILLS

Programming: Python, MATLAB, HTML & CSS

Statistical software: SPSS, R

Statistical methods: General Linear Models, Multivariate Statistics, Bayesian Statistics, Classical Machine Learning Algorithms, Deep Learning

REFERENCES

References available on request