### ADINA S. WAGNER

email

adina.wagner@t-online.de

#### EDUCATION

10/2016-02/2019 Otto-von-Guericke University Magdeburg

M.Sc., Clinical Neuroscience

Grade: 1.1 · with honors

Thesis: Catching the eye - Investigating the functional neuroanatomy of visuospatial attention with fMRI and eyegaze recordings during natural stimulation". Grade: 1.0

Advisors: Prof. Michael Hanke & Prof. Claudia Preuschhof

Minor: Macroeconomics

10/2012-09/2016 Technical University Braunschweig

B.Sc., Psychology Grade: 1.2 · ECTS A - Among 10% best

Thesis: Disentangling Loneliness: A Prospective Study on Differential Effects of Loneliness Measures on Health in Adults in their Second Half of Life. Grade: 1.0

Minor: Neurobiology

Elective: Neuropsychology, Forensic Psychology, Counseling Psychology,

Rehabilitation Psychology

2004-2012 Phoenix Gymnasium Wolfsburg

Abitur

Grade: 1.1

Special subjects: Maths, English, German

#### WORK EXPERIENCE

04/2019-current Research Associate, Research Center Juelich

*Institute of* Neuroscience and Medicine, INM-7

5-year full-time position as a research associate/Doctoral Researcher in Prof. Michael Hanke's Psychoinformatics group, with a focus on research and occasional thesis supervision in BSc and MSc students. Simultaneous work towards a Dr. rer. nat.

Reference: Prof. Michael Hanke · michael.hanke@gmail.com

Statistics Tutor, OvGU Magdeburg 10/2017-07/2018

**Psychoinformatics** Lab

Tutor for statistics for first-year Bachelor Psychology students. Self-responsible conception and implementation of 3 hours of weekly statistics tutoring, tailored to the lecture. Initiated, planned and conducted evaluation of own teaching concept with results showing statistically significant, mostly gender-independent improvements in statistics related attitudes and expectations among students.

Reference: Prof. Michael Hanke · michael.hanke@gmail.com

10/2016-10/2018 Research Associate, Clinic for Neurology

Staedtisches Klinikum Braunschweig Development and implementation of a patient study to evaluate validity of the IQCODE as a measure for early detection of Alzheimers Disease. Reference: Julia Guenther · j.guenther@klinikum-braunschweig.de

06/2015-08/2017 Research Assistant, TU Braunschweig

Department for Developmental, Forensic and Personality Psychology

Research-oriented tasks, predominantly statistical evaluation of a forensic rehabilitation program for criminals (R&R; Reasoning & Rehabilitation)

Reference: Prof. Daniela Hosser · daniela.hosser@tu-bs.de

05/2013-08/2014 Research Assistant, TU Braunschweig

Department for Developmental, Forensic and Personality Psychology

Tasks in research and teaching, among others conception of childrens' Uni ("Warum kann das Gewissen beissen") of the TU Braunschweig, validation and re-conception of the German version of the depression-anxiety-stress scale (DASS), and tasks in the field of lie detection and emotion recognition.

Reference: Prof. Daniela Hosser · daniela.hosser@tu-bs.de

#### INTERNSHIPS AND RESEARCH STAYS

Visiting Student, Dartmouth College 10/2018-02/2018

Department for Psychological and Brain Sciences

Four-month voluntary research-stay under supervision of Prof. Yaroslav Halchenko in Prof. Jim Haxbys Lab at Dartmouth College, New Hampshire, USA. Work in the area of brain imaging, machine learning, open science/open software and software development, predominantly in a project deriving models of the neural basis of eyemovement control with searchlight-hyperalignment and Gaussian naive Bayes classification. Reference: Prof. Yaroslav Halchenko ·

Yaroslav.O.Halchenko@dartmouth.edu

02/2017-03/2018 Internship student, OvGU Magdeburg

Department of Neuropsychology

Four-week voluntary internship under supervision of MSc Christian Kaiser in the area of neuropsychological research on the habenula via behavioral computer-based experiments and structural MRI. Reference: MSc Christian Kaiser · christian.kaiser@ovgu.de

Internship Student, Klinikum Braunschweig 04/2016-07/2016

Clinic for Neurology Thirteen-week voluntary internship under supervision of MSc Julia Guenther in the area of neuropsychlogical testing and diagnostics. This internship led to a two year contract as a research associate.

Reference: Julia Guenther · j.guenther@klinikum-braunschweig.de

Visiting Student, Cambridge University 09/2014-04/2015

*Institute of* Psychology, Subdepartment of Animal Behavior

Six-month voluntary research stay under supervision of Dr. Ljerka Ostojic in Prof. Nicky Clayton's Labs at the University of Cambridge, Institute of Psychology. Research assistance in the area of comparative psychology, especially pseudo-episodic memory and social cognition of Garrulus glandarius (Eurasian Jay) and other corvids. Reference: Dr. Ljerka Ostojic · lo245@cam.ac.uk

05/2013-08/2014 Internship Student, TU Braunschweig

Department for Developmental, Forensic and Personality Psychology

Internship under supervision of Prof. Daniela Hosser in the area of forensic-psychological assessment of victims of sexual assault. Reference: Prof. Daniela Hosser · daniela.hosser@tu-bs.de

Internship Student, TU Braunschweig 02/2013-03/2014

Department for Methods and Biopsychology Research-oriented internship under supervision of BSc Florian Lange in the area of experimental psychology, with a focus on the replication of ego-depletion effects and inference.

Reference: Dr. Florian Lange · florian.lange@kuleuven.be

#### JOURNAL ARTICLES

2019 Yarkoni, T. et al. (2019), PyBIDS: Python tools for BIDS datasets. Journal of Open Source Software. DOI: 10.21105/joss.01294

Wagner, A. S., Hanke, M. & Halchenko, Y. O (2019). multimatch\_gaze: The MultiMatch algorithm for gaze path comparison in Python. Journal of Open Source Software. DOI: 10.21105/joss.01525

Mathot, S., Wagner, A. S. & Hanke, M. (2019). Pupil size, locus coeruleus, emotional intensity, and eye movements during unconstrained movie viewing. Journal of Vision. DOI: 10.1167/19.10.252c

2018 Beller, J & Wagner, A. (2018). Loneliness, Social Isolation, their Synergistic Interaction and Mortality. Health Psychology. DOI: 10.1037/hea0000605

Wagner, A, Klag, J., Toennies, E., Sennock, S., Leikeim, L. & Dodel, R. (2018). Neue Kriterien fuer die Diagnose der Demenz mit Lewy-Koerpern. InFo Neurologie & Psychiatrie. DOI: 10.1007/s15005-017-2088-2

2017 Lange, F., Wagner, A., Mueller, A. & Eggert, F.(2017). Subscales of the Barratt Impulsiveness Scale differentially relate to the Big Five Factors of Personality. Scandinavian Journal of Psychology. DOI: 10.1111/sjop.12359

Beller, J. & Wagner, A. (2017). Disentangling Loneliness: A Prospective Study on Differential Effects of Loneliness Measures on Health in Adults in their Second Half of Life. Journal of Ageing and Health. DOI: 10.1177/0898264316685843

#### BOOKS AND BOOK CHAPTERS

2019

Hanke M., Mathôt S., Ort E., Peitek N., Stadler J. & Wagner, A. S. (2019). A Practical Guide to Functional Magnetic Resonance Imaging with Simultaneous Eye Tracking for Cognitive Neuroimaging Research. In: Pollmann S. (eds) Spatial Learning and Attention Guidance. Neuromethods, vol 151. Humana, New York, NY. DOI: 10.1007/7657\_2019\_31

Wagner, A. S., ... & Hanke, M. (2019). The DataLad Handbook, Release 0.12 DOI: 10.5281/zenod0.3608612

#### POSTER

Poldrack, B., Meyer, K., ...& Hanke, M. DataLad: Management and transport logistic for scientific (meta)data. 7th HPB Summit, Athens

WAGNER, A. S., Dar, A.H. & Hanke, M. (2019) A Python-based Algorithm for Robust Event Detection for Eye Movements During Natural Viewing. 3rd HBP Supercomputing Workshop, Juelich, Germany, 2019

Wagner, A. S., Nastase, S. A., Hanke, M. & Halchenko, Y. O. (2019). Turn it sideways: A novel approach for determining the specificity of functional ROIs. OHBM 2019, Rome.

2017

Wagner, A. & Beller, J. (2016) Disentangling Loneliness: A Prospective Study on Differential Effects of Loneliness Measures on Health in Adults in their Second Half of Life. Congress of the German Association for Psychology (DGPs), Leipzig, Germany

2015

WAGNER, A. & Legg, E. (2015). Seeing it their Way: Implicit Mentalizing or Attention Shifting? Neuro-wissen-schaffen, Hamburg, Germany

#### SUBMITTED WORK

Dar, A. H.\*, Wagner, A. S.\* & Hanke, M. (submitted). REMoDNaV: Robust Eye Movement Detection for Natural Viewing. BioRxiv, https://doi.org/10.1101/619254 (currently under review at Behavioral Research Methods)

Beller, J.\* & Wagner, A. S.\* (submitted). Cross-cultural Effects of Loneliness: Individualism/Collectivism Moderates the Effect of Loneliness on Health

#### **TEACHING**

#### Workshops

Data management with DataLad. Workshop for the Institute for Neuroscience and Medicine, Structural and Functional Brain Organization (INM-1). Jan. 21st 2020

Data management and the BIDS data standard. Workshop for the IRTG graduate program of RWTH Aachen, Nov. 26th 2019

Introduction to version control with Git. Jülich Research Centre, Jul. 4th 2019

#### Lectures

Scalable data management. 4-month lecture series for INM-7, Juelich Research Centre, Autumn 2019

Inferential Statistics. One semester tutorial series for 1st year undergraduate Psychology students, Otto-von-Guericke Universität Magdeburg, Summer 2018

Descriptive Statistics. One semester tutorial series for 1st year undergraduate Psychology students, Otto-von-Guericke Universität Magdeburg, Winter/Spring 2017/2018

#### SOFTWARE, AND SOFTWARE I HAVE CONTRIBUTED TO

# Own open software projects

Wagner, A. & Hanke, M. adswa/multimatch\_gaze: multimatch-gaze-vo.1 (Version vo.1). Zenodo. doi.org/10.5281/zenodo.2658123

WAGNER, A., ... & Hanke, M. The DataLad Handbook

Hanke, M., Dar, A. H. & WAGNER, A (2019). psychoinformatics-de/remodnav: Submission time (Version 1.0). doi.org/10.5281/zenodo.2651042

## Software contributions

Markiewicz, C. J., De La Vega, A., Wagner, A., Halchenko, Y. O., Poldrack, R. A., & Gorgolewski, K. J. (2019, February 1). poldracklab/fitlins: 0.2.0 (Version 0.2.0). doi.org/10.5281/zenodo.2555453

Yarkoni, T., Markiewicz, C.J., de la Vega, A., Gorgolewski, K.J., Salo, T., Halchenko, Y.O., et al. (2019, February 1). bids-standard/pybids: 0.7.1 (Version 0.7.1). doi.org/10.5281/zenodo.2555449

For all of my contributions to open source software, please visit my Github account.

#### AWARDS AND GRANTS

06/2020-06/2021	Repronim/INCF Training Fellowship: Received one of five full year Train-the-Trainer fellowships
07/2019	Human Brain Project Education Program, Fee waiver based on abstract-based application for the 3rd HBP curriculum workshop series
03/2013-02/2019	German Academic Foundation, Scholarship
09/2014-04/2015	Erasmus Placement, Funding for research internship abroad
09/2014-04/2015	GERMAN ACADEMIC FOUNDATION, Research-Scholarship (4 months at Dartmouth College, NH, US)
10/2018-01/2019	GERMAN ACADEMIC FOUNDATION, Research-Scholarship (6 months at Cambridge University, UK)
10/2016-10/2018	Forschungsgemeinschaft fuer kognitive Neurologie e.V., Research Grant

#### TECHNICAL SKILLS

I developed a broad collection of software and technical skills in the wake of my association with the Psychoinformatics Lab since late 2017 through extensive use on up to a daily basis and thanks to learning one-on-one from experienced systems administrators, software developers, and data scientists. I extended these skills with on-site and web-based software development, data analysis, and programming courses.

Programming Experience in Python (2 and 3), bash, LaTeX, R, HTML

Open Source/ Version control with Git (+ teaching), data management with DataLad, collaborative software projects on Github, contributions to large software

projects (PyMVPA, fitlins, PyBIDS, DataLad, ...), own Github based software

and data-analysis projects.

Data Science Experience in generic scripting with Python (NumPy, pandas, sklearn,

matplotlib, pyplot, seaborn, ...), R (lmer, brms, ez, ..., + teaching experience),

SPSS, STATA (econometric modeling)

Neuroscience Experience in scripting for neuroimaging in Python (pymvpa, sklearn, nibabel,

nipype, fmriprep, fitlins, pybids, FSL), basic experience with modeling and

simulation with NEST and Arbor

Miscellaneous Experience in usage of Datalad, Datalad-containers, Docker, Singularity,

Singularity-Hub, Unix, Debian, zshell, vim, pycharm, reveal.js

Generic Office MS-Office, LibreOffice, Microsoft Windows, Adobe Photoshop Elements,

Gimp, Inkscape

Skills

OTHER INFORMATION

Hackathon 2020 · Turing Way book dash

Attendance of the TuringWay book dash in London, UK, 20.-21.02.2020

Academic 2019 · Neurohackademy

Advancement Attendance of the 14 day Neurohackademy 2019 in Seattle, WA, USA,

29.07.-09.08.2019

Academic 2019 · High-performance computing for neuroscience: hands-on

Advancement introduction to supercomputing, tools, and applications

Attendance of 3 day workshop on supercomputing usage, organized by the

Human Brain Project Education Programme, 09.07.-11.07.2019

Hackathon 2019 · OHBM 2019 Hackathon Rome

Attendance of the Hackathon of the OHBM in Rome, Italy, o6.-o8.o6.2019

Academic 2018 · 2nd Bayes Symposium

Advancement Attendance of 4 day workshop on Bayesian Multilevel Modeling with Paul

Buerkner, 30.07.-03.08.2018

Organizing 2018 · Brainhack Magdeburg 2018

committee Co-Organizer of the Brainhack Magdeburg, May 3rd-5th, part of the

Brainhack Global 2018

Academic 2016-2018 · Lebenswissenschaftliches Kolleg

Advancement Participation in two-year life science college of the german academic

foundation in the group "Psycho- und Neurowissenschaften"

Voluntary 2017 · Jugendbildung in Gesellschaft und Wissenschaft e.V.

Teaching in Talent Preparation and conduction of the course "Wenn die grauen Zellen schlapp machen - Neuropsychologie der Hirnerkrankungen und Hirnschaedigungen"

of the JGW-Schueler Akademie Papenburg, 23. July 2017 - 03. August 2017

Expert Activities 2017 · Reviewer for the German Academic Foundation e.V

Academic Advancement 2016 · "Kolloquium Neurologische Forschung"

Attendance of the 3 day colloquium from 30.09.-02.10. in the Cologne, group 'neurodegenerative diseases' under supervision of Prof. Frank Jessen

Expert Activities, Charity 2015-2016  $\cdot$  Reviewer and committee member for the national charity project "Helfenden helfen. Fluechtlingen helfen."

Committee Academic

2015 · Neuro-Wissen schaffen

Advancement

Attendence of the 3 day seminar "Neuro-Wissen schaffen", from 10.-12.06.2015 in Hamburg

Academic Advancement,

Teaching

2015 · CHOICE

One year training to become a certified group coach for vocational orientations for highschool students

Academic Advancement Since 2014 · online courses on coursera.org and edx.org:

- · Eindhoven University of Technology: Improving your Statistical Inferences;
- · Microsoft: Introduction to R programming;
- University of Texas: Foundations of Data Analysis Part I;
  University of Texas: Foundations of Data Analysis Part II,
- · Harvard University: Data Analysis for Life Sciences: Statistics and R

Voluntary Work

since 2009 · Lutheranian Church Braunschweig

Preperation and supervision of the three-week confirmation travel KFS of the Lutheranian Church in 2009, 2010, 2011, 2015 and since 2016 management of social media webpages

Languages

GERMAN · Mothertongue

ENGLISH · Advanced (business fluent)

LATIN · Latin Proficiency Certificate

ITALIAN · Basic (Level A1.2)

March 8, 2020