# ADINA S. WAGNER

| *email* | adina.wagner@t-online.de |

## EDUCATION

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| | *10/2016-02/2019*  Otto-von-Guericke University Magdeburg |
| *M.Sc., Clinical Neuroscience* | Grade: 1.1 · *with honors*<br>Thesis: *Catching the eye - Investigating the functional neuroanatomy of visuospatial attention with fMRI and eyegaze recordings during natural stimulation"*. Grade: 1.0<br>Advisors: Prof. Michael Hanke & Prof. Claudia Preuschhof<br>Minor: Macroeconomics |
| | *10/2012-09/2016*  Technical University Braunschweig |
| *B.Sc., Psychology* | Grade: 1.2 · *ECTS A - Among 10% best*<br>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<br>Minor: Neurobiology<br>Elective: Neuropsychology, Forensic Psychology, Counseling Psychology, Rehabilitation Psychology |
| | *2004-2012*  Phoenix Gymnasium Wolfsburg |
| *Abitur* | Grade: 1.1<br>Special subjects: Maths, English, German |

## WORK EXPERIENCE

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| | *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.<br>Reference: Prof. Michael Hanke · michael.hanke@gmail.com |
| | *10/2017–07/2018*  Statistics Tutor, OvGU Magdeburg |
| *Psychoinformatics Lab* | Tutor for statistics for first-year Bachelor Psychology students.<br>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.<br>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.<br>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)<br>Reference: Prof. Daniela Hosser · daniela.hosser@tu-bs.de |

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| | *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

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| | *10/2018–02/2018*   **Visiting Student, Dartmouth College** |
| *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 |
| | *04/2016–07/2016*   **Internship Student, Klinikum Braunschweig** |
| *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 |
| | *09/2014–04/2015*   **Visiting Student, Cambridge University** |
| *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 |
| | *02/2013-03/2014*   **Internship Student, TU Braunschweig** |
| *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

POSTER

2020      Poldrack, B., Meyer, K., ...& Hanke, M. DataLad: Management and transport logistic for scientific (meta)data. 7th HPB Summit, Athens

2019      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

IN PRESS

*Chapter*

Hanke, M., Mathot, S., Ort, E., Peitek, N., Stadler, J. & WAGNER, A. S. (in press) A practical guide to functional magnetic resonance imaging with simultaneous eye tracking for cognitive neuroimaging research. In S. Pollmann (Ed.) Spatial Learning and Attention Guidance, Springer.

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-v0.1 (Version v0.1). 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

| | |
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| *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 |
| *10/2018-01/2019* | German Academic Foundation, Research-Scholarship |
| *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.

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| *Programming* | Experience in Python (2 and 3), bash, LaTeX, R, HTML |
| *Open Source/ Software* | 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 Skills* | MS-Office, LibreOffice, Microsoft Windows, Adobe Photoshop Elements, Gimp, Inkscape |

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| *Hackathon* | 2020 · Turing Way book dash<br>Attendance of the TuringWay book dash in London, UK, 20.-21.02.2020 |
| *Academic Advancement* | 2019 · Neurohackademy<br>Attendance of the 14 day Neurohackademy 2019 in Seattle, WA, USA,<br>29.07.-09.08.2019 |
| *Academic Advancement* | 2019 · High-performance computing for neuroscience: hands-on<br>introduction to supercomputing, tools, and applications<br>Attendance of 3 day workshop on supercomputing usage, organized by the<br>Human Brain Project Education Programme, 09.07.-11.07.2019 |
| *Hackathon* | 2019 · OHBM 2019 Hackathon Rome<br>Attendance of the Hackathon of the OHBM in Rome, Italy, 06.-08.06.2019 |
| *Academic Advancement* | 2018 · 2nd Bayes Symposium<br>Attendance of 4 day workshop on Bayesian Multilevel Modeling with Paul<br>Buerkner, 30.07.-03.08.2018 |
| *Organizing committee* | 2018 · Brainhack Magdeburg 2018<br>Co-Organizer of the Brainhack Magdeburg, May 3rd-5th, part of the<br>Brainhack Global 2018 |
| *Academic Advancement* | 2016-2018 · Lebenswissenschaftliches Kolleg<br>Participation in two-year life science college of the german academic<br>foundation in the group "Psycho- und Neurowissenschaften" |
| *Voluntary Teaching in Talent Program* | 2017 · Jugendbildung in Gesellschaft und Wissenschaft e.V.<br>Preperation and conduction of the course "Wenn die grauen Zellen schlapp<br>machen - Neuropsychologie der Hirnerkrankungen und Hirnschaedigungen"<br>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"<br>Attendance of the 3 day colloquium from 30.09.-02.10. in the Cologne, group<br>'neurodegenerative diseases' under supervision of Prof. Frank Jessen |
| *Expert Activities, Charity Committee* | 2015-2016 · Reviewer and committee member for the national charity project<br>"Helfenden helfen. Fluechtlingen helfen." |
| *Academic Advancement* | 2015 · Neuro-Wissen schaffen<br>Attendence of the 3 day seminar "Neuro-Wissen schaffen", from<br>10.-12.06.2015 in Hamburg |
| *Academic Advancement, Teaching* | 2015 · CHOICE<br>One year training to become a certified group coach for vocational<br>orientations for highschool students |
| *Academic Advancement* | Since 2014 · online courses on coursera.org and edx.org:<br>· Eindhoven University of Technology: Improving your Statistical Inferences;<br>· Microsoft: Introduction to R programming;<br>· University of Texas: Foundations of Data Analysis Part I;<br>· University of Texas: Foundations of Data Analysis Part II,<br>· Harvard University: Data Analysis for Life Sciences: Statistics and R |
| *Voluntary Work* | since 2009 · Lutheranian Church Braunschweig<br>Preperation and supervision of the three-week confirmation travel KFS of the<br>Lutheranian Church in 2009, 2010, 2011, 2015 and since 2016 management of<br>social media webpages |
| *Languages* | GERMAN · Mothertongue |
| | ENGLISH · Advanced (business fluent) |

Latin · Latin Proficiency Certificate

Italian · Basic (Level A1.2)

February 13, 2020