

Curriculum Vitae

Personal Data

Title	Prof. Dr. rer. nat. Dipl.-Psych.
First name	Tim
Name	Hahn
Current position	W3 Heisenberg Professor
Current institution(s)/ site(s), country	Institute for Translational Psychiatry, Faculty of Medicine, Universität Münster (UMS), Germany
Identifiers/ORCID	0000-0001-6541-3795

Qualifications and Career

Stages	Periods and Details	
Degree programme	2001–2007	Psychology, Philipps-Universität Marburg (UMR), Germany
Doctorate	2010	PhD, Neurobiology, “Integrating neurobiological markers of depression: an fMRI-based pattern classification approach”, Universität Würzburg, Germany
Stages of academic/ professional career	2019–present	Heisenberg Professor (W3) for Machine Learning and Predictive Analytics in Psychiatry, UMS, Germany
	2017–2019	Group leader Medical Machine Learning Group Institute for Translational Psychiatry, UMS, Germany
	2011–2017	Akademischer Rat, Dept. of Cognitive Psychology II, Goethe-University Frankfurt, Germany
	2007–2010	PhD scholarship of the German Excellence Initiative at the Graduate School of Life Science (with Prof. A. Fallgatter), University of Würzburg, Germany

Engagement in the Research System

- since 2020 Member of the “AG Qualität der Senatskommission für Grundsatzfragen in der Klinischen Forschung (SGKF)” of the German Research Foundation (DFG) for the development of guidelines for machine learning
- since 2019 Member of the AI4Health Focus Group of the World Health Organization (WHO) for the development of Standards for AI in Medicine

Supervision of Researchers in Early Career Phases

- Long-standing and regular contributions to multidisciplinary training for national and international undergraduate, graduate and postgraduate students and physicians, offering lectures, practical courses and seminars on different topics. Since 2017, personal supervision of 5 MD and 7 PhD students.

Scientific Results

Contributions: ¹Conceptualization/Methodology, ²Analysis, ³Investigation, ⁴Funding Acquisition, ⁵Writing

Category A (10 selected publications out of 132)

Winter NR, ..., Leehr EJ, ..., Jansen A, Nenadić I, ..., Forstner AJ, ..., Groß J, ..., Kircher T, Dannlowski U*, Hahn T^{1,2,3,4,5}: Quantifying deviations of brain structure and function in major depressive disorder across neuroimaging modalities. JAMA Psychiatry 2022; 79(9):879-888. DOI: 10.1001/jamapsychiatry.2022.1780

Hahn T^{1,2,3,4,5}, ..., Kircher T, ..., Dannlowski U, Berger K: An uncertainty-aware, shareable and transparent neural network architecture for brain-age modeling. Sci Adv 2022; 8(1):eabg9471. DOI: 10.1126/sciadv.abg9471

Winter NR, ..., Dannlowski U, Baune BT, Hahn T^{1,3,4,5}: From multivariate methods to an AI ecosystem. Mol Psychiatry 2021; 26(11):6116-6120. DOI: 10.1038/s41380-021-01116-y

Flint C, ..., Kircher T, Krug A, Nenadić I, ..., Dannlowski U, Hahn T^{1,2,3,4,5}: Systematic misestimation of machine learning performance in neuroimaging studies of depression. Neuropsychopharmacol 2021; 46(8):1510-1517. DOI: 10.1038/s41386-021-01020-7

Hahn T^{1,2,3,4,5}, ..., Kircher T, Berger K, Dannlowski U: From 'loose fitting' to high-performance, uncertainty-aware brain-age modelling. Brain 2021; 144(3):e31. DOI: 10.1093/brain/awaa454

Leenings R, ..., Dannlowski U, Hahn T^{1,2,3,4,5}: PHOTONAI – a python API for rapid machine learning model development. PLoS One 2021; 16(7):e0254062. DOI: 10.1371/journal.pone.0254062

Cearns M, Hahn T^{1,3,4,5}, Baune BT: Recommendations and future directions for supervised machine learning in psychiatry. Transl Psychiatry 2019; 9(1):271. DOI: 10.1038/s41398-019-0607-2

Hahn T^{1,3,4,5}, Nierenberg AA, Whitfield-Gabrieli S: Predictive analytics in mental health: Applications, guidelines, challenges and perspectives. Mol Psychiatry 2017; 22(1):37-43. DOI: 10.1038/mp.2016.201

Hahn T^{1,2,3,4,5}, Kircher T, Straube B, ..., Lueken U: Predicting treatment response to cognitive behavioral therapy in panic disorder with agoraphobia by integrating local neural information. JAMA Psychiatry 2015; 72(1):68-74. DOI: 10.1001/jamapsychiatry.2014.1741

Hahn T^{1,2,3,4,5}, ..., Fallgatter AJ: Integrating neurobiological markers of depression. Arch Gen Psychiatry 2011; 68(4):361-368. DOI: 10.1001/archgenpsychiatry.2010.178

Category B

n/a

Science communication

n/a

Academic Distinctions

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| 2014 | PsychoSlam Award of the German Psychological Society (DGPs) for the communication of scientific content |
| 2010 | Hans-Heimann Award of the Deutsche Gesellschaft für Psychiatrie, Psychotherapie und Nervenheilkunde (DGPPN) for outstanding dissertations (with Prof. A. Fallgatter) |
| 2007 | PhD Scholarship of the German Excellence Initiative at the Graduate School of Life Science, Würzburg, Germany |

Other Information

n/a