Curriculum Vitae

Personal Data

Title	Jun.-Prof. Dr. rer. nat.
First name	Hamidreza
Name	Jamalabadi
Current position	W1 Professor (tenure track W2)
Current institution(s)/ site(s), country	Department of Psychiatry and Psychotherapy, Faculty of Medicine, Philipps-Universität Marburg (UMR), Germany
Identifiers/ORCID	0000-0003-2485-2374

Qualifications and Career

Stages	Periods and Details	
Degree programme	2006–2013	Electrical Engineering, University of Teheran, Iran
Doctorate	2017	Dissertation, Neuroscience, "Optimizing parameters and algorithms of multivariate pattern classification for hypothesis testing in high-density EEG", Eberhard Karls-Universität Tübingen, Germany
Stages of academic/ professional career	2021–present	W1 Professor (Tenure Track W2) for Computational Psychiatry, Department of Psychiatry and Psychotherapy, UMR, Germany
	2017–2021	Research Scientist, Department of Psychiatry and Psychotherapy, University of Tübingen, Germany
	2016–2017	Research Scientist, Max Planck Institute for Biological Cybernetics, Tübingen, Germany
	2015–2016	Research Scientist, Institute for Medical Psychology and Behavioral Neurobiology, University of Tübingen, Germany
	2013–2014	Research Scientist, Department of Biology II, University of München, Germany

Engagement in the Research System

2022	Co-Chair and Speaker "Neue Ansätze der Computational Psychiatry: Wo wir Unterschiede zwischen Depressiven und Gesunden suchen sollten?", AGNP Berlin
2021	Chair and Organizing Member of summer school "Network and Control Sciences for Psychiatry", Tübingen

Supervision of Researchers in Early Career Phases

- Regular contributions to multidisciplinary training for national and international undergraduate and graduate students and physicians, offering lectures, practical courses and seminars on different topics based on machine learning, network sciences, control theory, and cognitive neuroscience. Since 2017, personal (co-)supervision of 6 PhD students (3 ongoing).

Scientific Results

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

Category A (10 selected publications out of 56)

Stocker JE, Nozari E, van Vugt M, **Jansen A**, **Jamalabadi H**[1,2,3,4,5]: Network controllability measures of subnetworks: Implications for neurosciences. J Neural Eng 2023; 20:016044. DOI: 10.1088/1741- 2552/acb256

Schneider K, Leinweber K, **Jamalabadi H**[1,2,5], ..., **Straube B**, **Alexander N**, **Nenadić I**, **Jansen A**, Krug A, **Dannlowski U**, **Kircher T**, Nagels A*, **Stein F***: Syntactic complexity and diversity of spontaneous speech production in schizophrenia spectrum and major depressive disorders. Schizophr 2023; 9:1-10. DOI: 10.1038/s41537-023-00359-8

Hahn T, **Jamalabadi H**[1,2,3,5], ..., **Gross J**, **Dannlowski U**, Redlich R, Repple, J: Towards a network control theory of electroconvulsive therapy response. PNAS Nexus 2023; 2:pgad032. DOI: 10.1093/ pnasnexus/pgad032

van Vugt M, **Jamalabadi H**[1,2,3,4,5]: Too much flexibility in a dynamical model of repetitive negative thinking? Psychol Inq 2022; 33:276-279. DOI: 10.1080/1047840X.2022.2149195

Flinkenflügel K, **Meinert S**, Thiel K, ..., **Stein F**, ..., **Hahn T**, **Leehr EJ**, ..., **Jamalabadi H**[2], **Straube B**, **Alexander A**, **Jansen A**, **Nenadić I**, Krug, A, **Kircher T**, **Dannlowski U**: Negative stressful life events and social support are associated with white matter integrity in depressed patients and healthy control participants: A diffusion tensor imaging study. Biol Psychiatry 2023; 94(8):650-660. DOI: 10.1016/j.biopsych.2023.03.022.

Jamalabadi H[1,2,3,4,5], Zuberer A, Kumar VJ, ..., Walter M: The missing role of gray matter in studying brain controllability. Netw Neurosci 2021; 5:198-210. DOI: 10.1162/netn_a_00174

Krylova M, Alizadeh S, Izyurov I, ..., **Jamalabadi H**[1,2,3,4,5]: Evidence for modulation of EEG microstate sequence by vigilance level. Neuroimage 2021; 224:117393. DOI: 10.1016/j. neuroimage.2020.117393

Walter M, Alizadeh S, **Jamalabadi H**[1,2,3,5], ..., **Hahn T**, Dwyer DB: Translational machine learning for psychiatric neuroimaging. Prog Neuropsychopharmacol Biol Psychiatry 2019; 91:113-121. DOI: 10.1016/j.pnpbp.2018.09.014

Jamalabadi H[1,2,5], ..., Gais S: Classification based hypothesis testing in neuroscience: Below-chance level classification rates and overlooked statistical properties of linear parametric classifiers. Hum Brain Mapp 2016; 37:1842-1855. DOI: 10.1002/hbm.23140

Stocker JE, ..., **Hofmann SG**, **Hahn T**, ..., **Jamalabadi H**[1,2,3,4,5]: Formalizing psychological interventions through network control theory. Sci Rep 2023;13(1):13830. DOI: 10.1038/s41598-023-40648-x.

Category B

Fechtelpeter J, Rauschenberg C, **Jamalabadi H**[1,5], ..., Koppe G: A control theoretic approach to evaluate and inform ecological momentary interventions. Psyarxiv 2023. DOI: 10.31234/osf.io/97teh

Jamalabadi H[1,2,3,4,5], **Hofmann SG**, Teutenberg L, ... **Stein F**, ..., **Nenadić I**, **Dannlowski U**, **Kircher T**, Opel N, **Hahn T**: A complex systems model of temporal fluctuations in depressive symptomatology. Psyarxiv 2023. DOI: 10.31234/osf.io/fm76b

Schönauer M, Alizadeh S, **Jamalabadi H**[1,2,5], Abraham A, Gais S: Decoding material-specific memory reprocessing during sleep in humans. Nature Commun 2017; 8:1-9. DOI: 10.1038/ncomms15404

Sikka A, **Jamalabadi H**[1,2,3,5], ..., **Hahn T**, ..., Walter M: Investigating the temporal dynamics of electroencephalogram (EEG) microstates using recurrent neural networks. Hum Brain Mapp 2020; 41:2334-2346. DOI: 10.1002/hbm.24949

Alizadeh S, **Jamalabadi H**[1,2,5], Schönauer M, Leibold C, Gais S: Decoding cognitive concepts from neuroimaging data using multivariate pattern analysis. Neuroimage 2017; 159:449-458. DOI: 10.1016/j.neuroimage.2017.07.058

Science communication

n/a

Academic Distinctions

2013	Ranked 1st in national university exam in Machine Intelligence and Robotics for PhD program, Iran
2010	Nomination as Top-Talent Bachelor Student (Electrical-Control engineering), University of Tehran, Iran

Other Information

n/a