## Curriculum Vitae

Sarah Blum Oldenburg

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PUBLICATIONS: JOURNAL ARTICLES

04/2019

01/2019



EDUCATION	
since 04/2017	<b>PhD Candidate</b> Neuropsychology Lab, Carl von Ossietzky University of Oldenburg, Prof. De bener. Main research focus: advancing signal processing methods for EEG-based Brain-Compute Interfaces.
10/2014-10/2016	M.Sc. Neurocognitive Psychology Carl von Ossietzky University of Oldenburg Thesis: Closing the Brain-Computer Interface Loop on Android: A Signal Processing Application for Single Trial Classification of Selective Auditory Attention ERPs. Overall Grade: 1.19
10/2011-10/2014	<b>B.A. Computer Science and Philosophy</b> Carl von Ossietzky University of Oldenburg Thesis: An Investigation of the Turing Machine and Turing Computability ("Eine Untersuchung der Turingmaschine und der Turingberechenbarkeit"). Overall Grade: 1.74
04/2007-04/2010	Training for Nurses Responsible for General Care Karl-Jaspers-Klinik Bad Zwischenahn
2006	General Qualification for University Entrance, Neues Gymnasium Oldenburg
WORK EXPERI	IENCE
since $09/2017$	Software Developer Development of hearing aid signal processing algorithms and frameworks
	Hörtech AG, Oldenburg
10/2016-03/2017	Hörtech AG, Oldenburg  Research assistant Neuropsychology Lab, Carl von Ossietzky University of Oldenburg
10/2016-03/2017 09/2016-12/2016	
, ,	Research assistant Neuropsychology Lab, Carl von Ossietzky University of Oldenburg  Software Developer Development of mobile signal processing frameworks for EEG measurements
09/2016-12/2016	Research assistant Neuropsychology Lab, Carl von Ossietzky University of Oldenburg  Software Developer Development of mobile signal processing frameworks for EEG measurements Fraunhofer IDMT, Oldenburg  Research Assistant for App Development Development of Arduino Code for integrating senso
09/2016-12/2016 04/2015-05/2017	Research assistant Neuropsychology Lab, Carl von Ossietzky University of Oldenburg  Software Developer Development of mobile signal processing frameworks for EEG measurements Fraunhofer IDMT, Oldenburg  Research Assistant for App Development Development of Arduino Code for integrating senso data into mobile data measurement setups. Carl von Ossietzky University, Oldenburg
09/2016-12/2016 04/2015-05/2017 07/2015-10/2015	Research assistant Neuropsychology Lab, Carl von Ossietzky University of Oldenburg  Software Developer Development of mobile signal processing frameworks for EEG measurements Fraunhofer IDMT, Oldenburg  Research Assistant for App Development Development of Arduino Code for integrating senso data into mobile data measurement setups. Carl von Ossietzky University, Oldenburg  Research Assistant Data Analysis. OFFIS, Oldenburg  Internship Multimodal Sensory Processing Development and implementation of an experi

EEG System in Real Flight Conditions, Sensors. mdpi.com

Blum S, Bleichner, MG, Debener S. A Riemannian Modification of Artifact Subspace Reconstruction for EEG Artifact Handling, Frontiers in Human Neuroscience. frontiersin.org

Dehais, F., Dupres, A., Blum S, Drougard, N., Scannella, S., Roy, R.N., Lotte, F. Monitoring Pilot's Mental Workload Using ERPs and Spectral Power with a Six-Dry-Electrode

11/2017	Blum S, Debener S, Emkes R, Volkening N, Fudickar S, and Bleichner M (2017). <b>EEG Recording and Online Signal Processing on Android: A Multiapp Framework for Brain-Computer Interfaces on Smartphone</b> , BioMed Research International, vol. 2017, Article ID 3072870, 12 pages, doi:10.1155/2017/3072870 hindawi.com
06/2017	Löcken A, Blum S, Stratmann T, Grünefeld U, Heuten W, Boll S and van de Par S (2017). Effects of Location and Fade-In Time of (Audio-)Visual Cues on Response Times and Success-Rates in a Dual-Task Experiment. Conference Paper at the ACM SAP 2017. dl.acm.org
PUBLICATIONS	: Scientific Posters
07/2018	Blum S, Debener S (2018). EEG Artifact Attenuation with Artifact Subspace Reconstruction for Android, Scientific Poster at the 40th IEEE Engineering in Medicine and Biology Conference, Hawaii, USA. github.com
06/2018	Blum S, Bleichner MG and Debener S (2018). Evaluation of Riemannian Artifact Subspace Reconstruction for the correction of EEG artifacts. Front. Hum. Neurosci. Conference Abstract: 2nd International Neuroergonomics Conference. doi: 10.3389/conf.fnhum.2018.227.00134 frontiers.org
07/2018	Blum S, Bleichner M, Debener S (2018). Evaluation of Riemannian Artifact Subspace Reconstruction for the Correction of EEG Artifacts, Scientific Poster at the Neuroergonomics Conference, Philadelphia, USA. github.com
07/2017	Blum S, Debener S, Emkes R, Volkening N, Fudickar S, Bleichner M (2017). Brain-Computer Interfaces on Android, Scientific Poster at the Neuroadaptive Technology Conference, Berlin. github.com
INIVTED TALK	is s
10/2018	User Interface Software and Technology Symposium Summer School Correction of artifacts in EEG signals for BCIs. Berlin. UIST Summer School
09/2018	${\bf Second\ International\ Workshop\ on\ LSL\ Hanse-Wissenschaftskolleg,\ Delmenhorst.\ hwk.de/LSL\ and\ Second\ International\ Workshop\ on\ LSL\ Hanse-Wissenschaftskolleg,\ Delmenhorst.\ hwk.de/LSL\ and\ Second\ International\ Workshop\ on\ LSL\ Hanse-Wissenschaftskolleg,\ Delmenhorst.\ hwk.de/LSL\ and\ Second\ International\ Workshop\ on\ LSL\ Hanse-Wissenschaftskolleg,\ Delmenhorst.\ hwk.de/LSL\ and\ Second\ International\ Workshop\ on\ LSL\ Hanse-Wissenschaftskolleg,\ Delmenhorst.\ hwk.de/LSL\ and\ Second\ International\ Workshop\ on\ LSL\ Hanse-Wissenschaftskolleg,\ Delmenhorst.\ hwk.de/LSL\ and\ Second\ International\ Workshop\ on\ LSL\ And\ Second\ On\ Manage on\ No\ Manage$
07/2018	MoBI Conference Berlin. tu-berlin.de
12/2016	$\textbf{First International Workshop on LSL} \ \text{Hanse-Wissenschaftskolleg}, \ \text{Delmenhorst.} \ \text{hwk.de/LSL}$
MASTER THES	SIS SUPERVISION
11/2018-04/2019	Recordings and Analysis of Long-Term EEG Data from Patients in Minimally Conscious State. A master thesis in the program Neurocognitive Psychology at the University of Oldenburg.
Awards	
07/2018	MoBI Award, Berlin (3rd winner). MoBI Winners 2018
EXTRACURRIC	ULAR ACTIVITIES
since 2018	Member in the doctoral examination board (Promotionsausschuss), Faculty VI Carl von Ossietzky University, Oldenburg
2018-2019	Member in the examination committee (Prüfungssausschuss), Faculty VI Carl von Ossietzky University, Oldenburg
2018	<b>Organisation of Future Day for Boys and Girls</b> Department of Psychology, Carl von Ossietzky, Oldenburg
2014 2015	Found Opposition Officer Department of Computer Science Confuser Octional Confuser

2014 - 2015

Equal Oppurtunities Officer Department of Computer Science, Carl von Ossietzky, Oldenburg

## PORTFOLIO AND PROFILES

Code and Projects github.com

Code and Projects gitlab.com

Career Network linkedin.com

Team Page Neuropsychology uol.de