CURRICULUM VITAE

Sarah Blum
Oldenburg

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EDUCATION

since 04/2017	**PhD Candidate** Neuropsychology Lab, Carl von Ossietzky University of Oldenburg, Prof. Debener. Main research focus: advancing signal processing methods for EEG-based Brain-Computer 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.A. Computer Science and Philosophy** 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

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WORK EXPERIENCE

since 09/2017	**Software Developer** Development of hearing aid signal processing algorithms and frameworks. Hörtech AG, Oldenburg
10/2016-03/2017	**Research assistant** Neuropsychology Lab, Carl von Ossietzky University of Oldenburg
09/2016-12/2016	**Software Developer** Development of mobile signal processing frameworks for EEG measurements. Fraunhofer IDMT, Oldenburg
04/2015-05/2017	**Research Assistant for App Development** Development of Arduino Code for integrating sensor data into mobile data measurement setups. Carl von Ossietzky University, Oldenburg
07/2015-10/2015	**Research Assistant** Data Analysis. OFFIS, Oldenburg
05/2015-06/2015	**Internship Multimodal Sensory Processing** Development and implementation of an experiment in the anechoic chamber. OFFIS, Oldenburg
2012-2014	**Tutor in Computer Science** Teaching of students and development of programming workshops for pupils. Carl von Ossietzky University, Oldenburg
2010-2012	**Nurse in a Care Home for Elderly** FaSeniHa, Oldenburg

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PUBLICATIONS

09/2018	**Blum S**, Bleichner, MG, Debener S (2018, submitted). **Riemannian Artifact Subspace Reconstruction for EEG Artifact Correction**, Frontiers in Human Neuroscience.
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
11/2017	**Blum S**, Debener S, Emkes R, Volkening N, Fudickar S, and Bleichner M (2017). **EEG Recording and Online Signal Processing on Android: A Multiapp Framework for Brain-Computer Interfaces on Smartphone**, 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

INIVTED TALKS

10/2018	**User Interface Software and Technology Symposium Summer School** Correction of artifacts in EEG signals for BCIs. Berlin. UIST Summer School
09/2018	**Second International Workshop on LSL** Hanse-Wissenschaftskolleg, Delmenhorst. hwk.de/LSL
07/2018	**MoBI Conference** Berlin. tu-berlin.de
12/2016	**First International Workshop on LSL** Hanse-Wissenschaftskolleg, Delmenhorst. hwk.de/LSL

AWARDS

07/2018	MoBI Award, Berlin (3rd winner). MoBI Winners 2018

EXTRACURRICULAR ACTIVITIES

2018	**Member in the doctoral examination board (Promotionsausschuss), Faculty VI** Carl von Ossietzky University, Oldenburg
2018	**Member in the examination committee (Prüfungssausschuss), Faculty VI** Carl von Ossietzky University, Oldenburg
2018	**Organisation of Future Day for Boys and Girls** Department of Psychology, Carl von Ossietzky, Oldenburg
2014-2015	**Equal Oppurtunities Officer** Department of Computer Science, Carl von Ossietzky, Oldenburg
2011-2016	**Active member in the Student Body and in several committees, Faculty II** Carl von Ossietzky University, Oldenburg

PORTFOLIO AND PROFILES

Code and Projects	github.com
Code and Projects	gitlab.com
Career Network	linkedin.com
Team Page Neuropsychology	uol.de