

Curriculum Vitae

Dr. techn. Markus Waser



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Professional Experience

Duration	Position	Employer
2018 –	Scientist, Project Manager Signal/Image Processing	AIT – Austrian Institute of Technology GmbH, Sensing and Vision Solutions (Austria)
2016 – 2018	Postdoctoral Researcher Biomedical Signal Processing	DTU – Technical University of Denmark, DTU Elektro, Biomedical Engineering (Denmark)
2011 – 2016	(Junior) Scientist Biomedical Signal Processing	AIT – Austrian Institute of Technology GmbH, Sensing and Vision Solutions (Austria)
2010 – 2011	Research Assistant Mathematical Methods	Vienna University of Technology, Econometrics and System Theory (Austria)
2009 – 2011	Software Developer Financial Time Series Analysis	TeleTrader Software GmbH (Austria)

Education

Date	Program	Degree
2010 – 2013	Doctoral Program: Technical Mathematics Vienna University of Technology	Doctor technicae (with honors) equivalent to PhD (with honors)
2004 – 2010	Diploma Program: Technical Mathematics Vienna University of Technology	Diplom-Ingenieur (with honors), equivalent to MSc (with honors)
2008 – 2009	Joint Study Exchange Program City University of New York City College	–

Honors and Awards

Date	Type
2016	Erwin Schrödinger Fellowship (No. J3766) from FWF Austrian Science Fund. Project: "Quantitative EEG in Alzheimer's Diagnostics"
2009	Selected for the TUtheTOP - High Potential Program Vienna University of Technology
2009	Grant for the European Management Program (TEMP) Top Industrial Managers Europe (TIME)
2008	Grant for the Joint Study Exchange Program City University of New York City

Additional Training

Date	Type
2012 – 2018	Professional Training at Wirtschaftsförderungsinstitut (WIFI) <ul style="list-style-type: none"> ❖ Controlling (11/2018) ❖ Contract Know-How for Non-Lawyers (11/2018) ❖ Moderation training (10/2018) ❖ Writing customer proposals (05/2018) ❖ Principles of academic research (09/2012) ❖ Principles of academic writing (04/2012) ❖ Drafting grant applications with concentration on EU Programs (04/2012) ❖ Presentation skills 1 (03/2012) and 2 (12/2018) ❖ Principles of project management (03/2012)
2009 – 2010	European Management Program (TEMP) of Top Industrial Managers Europe (TIME) <ul style="list-style-type: none"> ❖ Vienna University of Technology (09/2009) ❖ Universidad Politécnica de Madrid (02/2010) ❖ University of Sevilla (09/2010)
2003 – 2004	Basic Military Training (mandatory), Austrian Armed Forces

Languages (Common European Framework of Reference for Languages)

Mother tongue: German

Other languages (*)	Reception				Speaking				Writing	
	Listening		Reading		Interaction		Production			
English	C2	Proficient	C2	Proficient	C2	Proficient	C2	Proficient	C2	Proficient
Danish	B1	Ind. user	B2	Ind. user	B1	Ind. user	B1	Ind. user	B2	Ind. User
French	A1	Basic user	A1	Basic user	A1	Basic user	A1	Basic user	A1	Basic user

Publications

- Waser M, Benke T, Dal-Bianco P, Garn H, Mosbacher J, Ransmayr G, Schmidt R, Seiler S, Sorensen H, Jennum P (2019): Neuroimaging markers of global cognition in early Alzheimer's disease: A magnetic resonance imaging–electroencephalography study. *Brain Behav.* 9.
- Fruehwirt W, Dorffner G, Roberts S, Gerstgrasser M, Grossegger D, Schmidt R, Dal-Bianco P, Ransmayr G, Garn H, Waser M, Benke T (2019): Associations of event-related brain potentials and Alzheimer's disease severity: A longitudinal study. *Progress in Neuro-Psychopharmacology and Biological Psychiatry* 92.
- Waser M, Lauritzen M, Fagerlund B, Osler M, Mortensen E, Sorensen H, Jennum P (2018): Sleep efficiency and neurophysiological patterns in middle-aged men are associated with cognitive change over their adult life course. *J Sleep Res* e12793.
- Waser M, Garn H, Jennum P, Sorensen H (2018): A blind source-based method for automated artifact-correction in standard sleep EEG. *Ann Int Conf of IEEE EMBC.*
- Garn H, Coronel C, Waser M, Caravias G, Ransmayr G (2017): Differential diagnosis between patients with probable Alzheimer's disease, Parkinson's disease dementia, or dementia with Lewy bodies and frontotemporal dementia, behavioral variant, using quantitative EEG features. *J Neural Transm.*
- Waser M, Garn H, Benke T, Dal-Bianco P, Ransmayr G, Schmidt R, Jennum P, Sorensen H (2017): A flexible method for the automated offline-detection of artifacts in multi-channel electroencephalogram recordings. *Ann Int Conf of IEEE EMBC.*
- Coronel C, Garn H, Waser M, Deistler M, Benke T, Dal-Bianco P, Ransmayr G, Seiler S, Grossegger D, Schmidt R (2017): Quantitative EEG Markers of Entropy and Auto Mutual Information in Relation to MMSE Scores of Probable Alzheimer's Disease Patients. *Entropy* 19(3).
- Waser M, Garn H, Schmidt R, Benke T, Dal-Bianco P, Ransmayr G, Schmidt H, Seiler S, Sanin G, Mayer F, Caravias G, Grossegger D, Frühwirt W, Deistler M (2016): Quantifying synchrony patterns in the EEG of Alzheimer's patients with linear and non-linear connectivity markers. *J Neural Transm* 123(3).
- Reyes-Coronel C, Waser M, Garn H, Deistler M, Dal-Bianco P, Benke T, Ransmayr G, Grossegger D, Schmidt R (2016): Predicting rapid cognitive decline in Alzheimer's disease patients using quantitative EEG markers and neuropsychological test scores. *Ann Int Conf of IEEE EMBC.*
- Garn H, Waser M, Deistler M, Benke T, Dal-Bianco P, Ransmayr G, Schmidt H, Sanin G, Santer P, Caravias G, Seiler S, Grossegger D, Frühwirt W, Schmidt R (2015): Quantitative EEG Markers Relate to Alzheimer's Disease Severity in the Prospective Dementia Registry Austria (PRODEM). *Clin Neurophys.*
- Garn H, Waser M, Deistler M, Schmidt R, Dal-Bianco P, Ransmayr G, Zeithofer J, Schmidt H, Seiler S, Sanin G, Caravias G, Santer P, Grossegger D, Frühwirt W, Benke T (2014): Quantitative EEG in Alzheimer's Disease: Cognitive State, Resting State and Association with Disease Severity. *Int J Psychophys* 93(3).
- Waser M, Garn H, Deistler M, Benke T, Dal-Bianco P, Ransmayr G, Schmidt H, Sanin G, Santer P, Caravias G, Seiler S, Grossegger D, Frühwirt W, Schmidt R (2014): Using Static and Dynamic Canonical Correlation Coefficients as Quantitative EEG Markers for Alzheimer's Disease Severity. *Ann Int Conf of IEEE EMBC.*
- Garn H, Waser M, Deistler M, Benke T, Dal-Bianco P, Ransmayr G, Schmidt H, Sanin G, Santer P, Caravias G, Seiler S, Grossegger D, Frühwirt W, Schmidt R (2014): Electroencephalographic complexity markers explain neuropsychological test scores in Alzheimer's disease. *Int Conf on Biomed Health Informatics.*
- Waser M, Garn H (2013): Removing cardiac interference from the electroencephalogram using a modified Pan-Tompkins algorithm and linear regression. *Ann Int Conf of IEEE EMBC.*
- Waser M, Deistler M, Garn H, Benke T, Dal-Bianco P, Ransmayr G, Grossegger D, Schmidt R (2013): EEG in the diagnostics of Alzheimer's disease. *Statistical Papers* 54(4).
- Garn H, Waser M, Lechner M, Dorfer M, Grossegger D (2012): Robust, automatic real-time monitoring of the time course of the individual alpha frequency in the time and frequency domain. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society.* *Ann Int Conf of IEEE EMBC.*
- Flamm C, Kalliauer U, Deistler M, Waser M, Graef A (2012): Graphs for Dependence and Causality in Multivariate Time Series. In: *System Identification, Modelling, Control System Design*, Springer London.