Florian Blättler
Physicist

As physicist with a interdisciplinary background I acquired the aptitude to observe and describe facts, and connect data from different fields logically.

Erdös-Bacon-Sabbath number : 12

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Education

2014 - 2017	**Studies for Physics Teacher Certificate** without Degree		ETH Zurich
2006 - 2013	**Dr. sc. ETH** Ph.D. in Neuroscience *Sparse Coding and its Application to Modeling the Zebra Finch's Auditory System.*		ETH Zurich
1998 - 2005	**Dipl. Phys. ETH** Equivalent to Masters Degree in Physics		ETH Zurich
2003	**Semester abroad**		Helsinki University of Technology
1993 - 1998	**Matura Type B**		Kantonsschule Kreuzlingen

Work Experience

2018 - 2019	**Lecturer** Mathematical Economics	Lucerne University of Applied Sciences and Arts
2016 - 2018	**Teacher** Physics, Mathematics, and Informatics	Kantonsschule Kreuzlingen
2014 - 2015	**Teacher** Physics	Kantonsschule Rychenberg
2006 - 2013	**Research Assistant** Dissertation	UNI/ETH Zurich
2006 - 2011	**Teaching Assistant** Courses: Physics, Physics Laboratory, Neurophysics, Theoretical Neuroscience	ETH Zurich
2000 - 2012	**Substitute Teacher** Physics, Mathematics, and Informatics at Kantonsschule Wattwil, Olten, Luzern Alpenquai, Zürich Birch, and Rychenberg	miscellaneous

Extracurricular Activities

Since 2017	**Municipal Councillor** Member of the Committee for Urban Development Member of the Select Committee ERZ	City of Zurich
2014	**Offshore sailing license**	
Since 2012	**Extra** miscellaneous Movies	
Since 2012	**Board Member** SP Zurich 11	
1999 - 2003	**President and Board Member** Association of Mathematics and Physics Student	ETH Zurich
1996 - 1997	**Member of the European Youth Parliament**	

Publications

Bhargava S., Blättler F., Kollmorgen S., Liu S.-C., and Hahnloser R.H.R. (2015). *Linear Methods for Efficient and Fast Separation of Two Sources Recorded with a Single Microphone.* Neural Computation, 27:10, 2231-2259.

Blättler Florian (2013). *Sparse Coding and its Application to Modeling the Zebra Finch's Auditory System.* ETH.

Blättler Florian, Hahnloser Richard (2011). *An Efficient Coding Hypothesis Links Sparsity and Selectivity of Neural Responses.* PLoS ONE 6(10): e25506. doi:10.1371/journal.pone.0025506

Blättler Florian, Kollmorgen Sepp, Herbst Joshua, Hahnloser Richard (2011). *Hidden Markov Models in the Neurosciences, Hidden Markov Models, Theory and Applications.* Przemyslaw Dymarski (Ed.), ISBN: 978-953-307-208-1, InTech

Languages

German	native
English	fluent
Italian	fair
French	fair

Programming Languages

Matlab	very good
LaTeX	very good
PHP	intermediate
Java	intermediate
C++	basic
GFA-Basic	basic
HTML / CSS	basic

Reverences

Prof. Richard Hahnloser (Ph.D. adviser)
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