Guillaume BELLEC

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Academic career :

Since 2015	**University Assistant** and **PhD student** in the institute for Theoretical Computer Science at TU-Graz under supervision of **Wolfgang Maass** *(Investigating learning and working memory in biological neural networks and giving lectures and exercises for the courses of Computational Intelligence and Reinforcement based learning at Bachelor and Master level)*
2014	Master Thesis in **Computational Neuroscience of sensory system** with **Romain Brette** at the Vision institute in Paris *(Unsupervised extraction of temporal dynamic with Spiking Neurons and Spike Timing Dependent Plasticity)*
2012 -2013	One year research internship in the Sound and music computing lab, KTH with **Anders Friberg** (Stockholm)
2012	Four months research internship in the Machine Learning department, City university of London with **Tillmann Weyde**

Education :

Since 2015	**Phd student** in the institute for Theoretical Computer Science of TU-Graz under supervision of **Wolfgang Maass**
2013-2014	**Master degree MVA (Mathematics, Vision, Learning)** at **ENS Cachan** (Paris-Saclay)
2010-2014	**Master degree** of **Mathematical Optimization and Operational Research** at **ENSTA ParisTech**
2012-2013	Erasmus program at **KTH** (Stockholm) *Studies and research internship. (Neuroscience, Audio technology, Machine learning)*
2008-2010	Classes préparatoires aux grandes écoles at lycée Hoche (Versailles) in 2009 and at lycée Fénelon (Paris) in 2008.

First author publications :

ICLR 2018	*Bellec, Kappel, Mass and Legenstein.* Deep Rewiring: Training very sparse deep networks **International Conference on Learning Representations**
JCNS 2016	*Bellec, Galtier, Brette and Yger .* Slow Feature Analysis with spiking neurons and its application to audio stimuli **Journal of Computational Neuroscience**

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SMC 2013	*Bellec, Friberg, Elowsson, Wolff, Weyde.* A social network integrated game experiment to relate tapping to speed perception and explore rhythm reproduction **International Sound & Music Computing Conference**

Other publications :

IJCNN 2017	*Sebastian Schmitt, Guillaume Bellec, … Robert Legenstein, Wolfgang Maass, Christian Mayr, Rene Schueffny, Johannes Schemmel, Karlheinz Meier.* Neuromorphic hardware in the loop: Training a deep spiking network on the brainscales wafer-scale system **International Joint Conference on Neural Networks**
ISCAS 2017	*Mihai A Petrovici, Guillaume Bellec, … R Legenstein, W Maass, R SchÃ¼ffny, C Mayr, J Schemmel, K Meier.* Pattern representation and recognition with accelerated analog neuromorphic systems **International Symposium on Circuits and Systems**
AES 2013	*Wolff, Bellec, Friberg, MacFarlane, Weyde.* Creating Audio Based Experiments as Social Web Games with the CASimIR Framework **International Conference: Semantic Audio (Audio Engineering Society)**
ISMIR 2012	*Wolff, Bellec, Weyde.* A music similarity game prototype using the CASIMIR API **The International Society for Musing Information Retrieval**

Skills :

Programming	Python, Tensorflow and Matlab
Languages	French as mother tongue and general interest for languages Very good spoken and written English Converse in German and Spanish
Music / Sport	Guitar and bass player in bands, deep interest for music production and music technology. Regular practice of various sports, currently hooked on Capoeira.