Guillaume BELLEC

Grieskai 2
8020 Graz, Austria
+33633436243
bellec@igi.tugraz.at

Expert in Deep Learning and Computational Neuroscience

Academic career :

Since 2015	**University Assistant** and **PhD student** at the institute for Theoretical Computer Science of TU-Graz under supervision of **Wolfgang Maass** *(Investigating Deep learning and models of plasticity and working memory in biological neural networks, teaching Machine Learning and Reinforcement based learning)*
2014	Master Thesis in **Computational Neuroscience of sensory system** with **Romain Brette** and **Pierre Yger** at the Vision institute in Paris
2012-2013	One year research internship in the Sound and music computing lab, KTH with **Anders Friberg** in Stockholm
2012	Four months research internship in the Machine Learning department, City university of London with **Tillmann Weyde**

Education :

Since 2015	**Phd student** at the institute for Theoretical Computer Science of TU-Graz
Summer 2018	**Brains, Minds and Machines** summer school at the Marine Biological Laboratory in **Woods hole**
Summer 2018	Cellular, Computational and Cognitive Neuroscience summer school organized by the **Princeton Neuroscience Institute**
2013-2014	Master of **Mathematics, Vision and Learning** at **ENS Cachan** (Paris-Saclay)
2010-2014	Master of **Optimization and Operational Research** at **ENSTA ParisTech**
2012-2013	Erasmus program at **KTH** (Stockholm) at the sound and music computing lab
2008-2010	Classes préparatoires aux grandes écoles at lycée Hoche (Versailles) in 2009 and at lycée Fénelon (Paris) in 2008

First author publications :

NIPS 2018	*Bellec*, Salaj*, Subramoney*, Legenstein and Maass.* Long short-term memory and learning-to-learn in networks of spiking neurons **Conference on Neural Information Processing Systems**
ICLR 2018	*Bellec, Kappel, Maass and Legenstein.* Deep Rewiring: Training very sparse deep networks **International Conference on Learning Representations**

Guillaume BELLEC

Grieskai 2
8020 Graz, Austria
+33633436243
bellec@igi.tugraz.at
Expert in Deep Learning and Computational Neuroscience

JCNS 2016	*Bellec, Galtier, Brette and Yger.* Slow Feature Analysis with spiking neurons and its application to audio stimuli **Journal of Computational Neuroscience**
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 Schueffny, 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 In proceedings of the **International Society for Musing Information Retrieval**

Skills :

Programming	Years of professional experience with Python, Tensorflow and Matlab.
Languages	French as mother tongue and general interest for languages. Very good spoken and written English used for many years in a professional context. Good spoken German and Spanish.
Music / Sport	Guitar and bass player, passion for music production and music technology. Regular practice of various sports, currently hooked on Capoeira.