

Education

PhD in Computer Science Nancy, France

LABORATOIRE LORRAIN DE RECHERCHE EN INFORMATIQUE ET SES APPLICATIONS, UNIVERSITY OF LORRAINE

2022

Master in Systemic and Synthetic Biology Evry, France

University Paris Saclay 2017

Master in Embedded Systems and Microsystems

Toulouse, France

University Paul Sabatier 2016

Bachelor in Electrical Engineering and Information Technology Offenburg, Germany

University of Applied Sciences 2015

Bachelor in Computer Science Neuchâtel, Switzerland

University of Applied Sciences 2014

Bachelor in Electrical and Electronic Engineering

Haguenau, France

University of Applied Sciences 2014

Scientific publications _

Papers under review:

- Adrien Fois and Bernard Girau. «Enhanced representation learning with latency coding in sparsely spiking neural networks». In Frontiers in Computational Neuroscience. 2023 (In submission)
- Adrien Fois and Bernard Girau. «Self-Organizing Temporally Coded Representation Learning». In International Conference on Artificial Neural Networks (ICANN). 2023 (In submission)

Publications:

- Adrien Fois, Horacio Rostro-Gonzalez and Bernard Girau. «Unsupervised learning of visual representations using delay-weight spiketiming-dependent plasticity». In International Joint Conference on Neural Networks (IJCNN). 2022
- Adrien Fois and Bernard Girau. «A Spiking Neural Architecture for Vector Quantization and Clustering». In International Conference on Neural Information Processing (ICONIP). 2020
- Jan Tekülve, Adrien Fois, Yulia Sandamirskaya, and Gregor Schöner. «Autonomous Sequence Generation for a Neural Dynamic Robot: Scene Perception, Serial Order, and Object-Oriented Movement». In Frontiers in Neurorobotics. 2019
- Yann Bernard, Emeline Buoy, Adrien Fois, and Bernard Girau. « NP-SOM : Network Programmable Self-Organizing Maps ». In International Conference on Tools with Artificial Intelligence (ICTAI). 2018

Teaching _

C language 2022

Lectures/Exercices - 1st year in Computer Science Télécom Nancy

Functions, Arrays, Pointers, Structure and Unions, Dynamic Memory Allocation, Scope

C language and data stuctures 2022

EXERCICES - 1ST YEAR IN COMPUTER SCIENCE

• Linked list, Hashing, Binary Tree, Balanced Binary Tree

Assembly language 2022

Exercices - 1st year in Computer Science Télécom Nancy

Registers, Instructions, Conditions, Loops, Arrays, Recursion

Mathematics for Computer Science 2021

EXERCICES - 1ST YEAR IN COMPUTER SCIENCE
- Propositional logic : Syntax, Semantic, Clausal Form, Demonstration, Resolution

Unix Shell 2021

UIIX SIIEU

EXERCICES - 1ST YEAR IN COMPUTER SCIENCE

• Navigation, File Permission, Pipes and Filters, Regex

Computational Neuroscience

LECTURES/EXERCICES - 2ND YEAR IN COGNITIVE SCIENCE

• Biophysical models for Neurons and Synaptic Plasticity, Python Programming

Institut des sciences du Digital, Management et Cognition

JavaScript language

LECTURES/EXERCICES - 2ND YEAR IN COMPUTER SCIENCE

• Object-Oriented Programming, Prototypes, Asynchronous Operations, Promises

2019

Institut Universitaire de Technologie Nancy-Charlemagne

Reviews.

Conferences:

- International Conference on Artificial Neural Networks (ICANN). 2023
- International Joint Conference on Artificial Intelligence (IJCAI). 2019

References _ Bernard Girau

FULL PROFESSOR · UNIVERSITY OF LORRAINE

Horacio Rostro-Gonzalez

FULL PROFESSOR · UNIVERSITY OF GUANAJUATO

Gregor Schöner

Full Professor · Ruhr University Bochum

Former PhD Supervisor bernard.girau@loria.fr Former Research Collaborator hrostrog@ugto.mx Former Master Supervisor gregor.schoener@ini.rub.de