CYPRIEN RUFFINO

PhD Student in Machine Learning

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25 years old

EDUCATION

Currenly enrolled in: PhD in Machine Learning

2017-Now — INSA de Rouen

Master's Degree in Software Engineering

2015-2017 — Ranked 1st/43 — Université d'Orléans

Bachelor's Degree in Computer Science

2012-2015 — Ranked 2nd/64 — Université d'Orléans

EMPLOYMENT

PhD thesis: Deep Generative Modeling for Structured Data Generation

Laboratoire d'Informatique, de Traitement de l'Information et du Signal (LITIS, INSA de Rouen)

October 2017–Now — Supervisors: Pr. G. Gasso, R. Hérault

- Conditioned data generation with Generative Adversarial Networks
- Multi-obective training of Generative Adversarial Nets
- Integration of domain-specific constraints
- Applications to scientific data, most notably geostatistical data

Research Internship : Machine Learning Research Intern

Laboratoire d'Informatique, de Traitement de l'Information et du Signal (LITIS, Normandie University)

April 2017– October 2017 — Supervisor: Pr. T. Paquet

- Deep Learning for offline handwritten text recognition on Android devices with Convolutional LSTMs
- Development of a prototype recognition system with TensorFlow and TensorFlow Lite for Android
- Industrial partnership with Hamelin SAS for the Oxford brand

Internship : Research assistant

Laboratoire d'Informatique Fondamentale d'Orléans (University of Orléans)

April–June 2015 — Supervisor: Pr. N. Ollinger

- Development of a cross-platform application for the visualisation of the SMART (Small Minimal Aperiodic Reversible Turing machine) machine for researchers, with OpenFL

FEATURED PUBLICATIONS

1. Pixel-wise Conditioned Generative Adversarial Networks for Image Synthesis and Completion, **Cyprien Ruffino**, Romain Hérault, Eric Laloy, Gilles Gasso *In Neurocomputing, 2020*
2. Gradient-based deterministic inversion of geophysical data with generative adversarial networks: Is it feasible? Eric Laloy, Niklas Linde, **Cyprien Ruffino**, Romain Hérault, Gilles Gasso, Diedrik Jacques *In Computers and Geosciences, 2019*

SKILLS

English	European Level C2
French	Native speaker

Python ●●●●●

Java ●●●●○

C/C++ ●●●○○

TensorFlow ●●●●●

Keras ●●●●●

Linux · Git · SLURM · Jupyter · JetBrains IDEs · SQL · Scikit-learn · SciPy · Matplotlib · Android SDK

SOME PROJECTS

CTCModel

Easy-to-use Connectionnist Temporal Classification in Keras

PyChip8

A scriptable CHIP-8 emulator written in pure Python

TEACHINGS

Introduction to programming

2018-2020 — INSA de Rouen

Introduction to algorithmics and programming in Pascal

Applied statistics for data science

2018-2020 — INSA de Rouen

Statistics, data analysis and visualisation, regressions, dimensionality reduction and testing, with SciPy/Matplotlib.

AND ALSO...

- PhD students representative, voting member of the LITIS lab council, 2018–2020
- President of the IT student's association, 2015–2016
- Sysadmin of several of the LITIS GPU computation servers
- ArchLinux/Manjaro, PinePhone
- Bass player, hobbyist lockpicker, Esperanto speaker