

# CYPRIEN RUFFINO

## PhD Student in Machine Learning

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🔗 scholar.google.com/citations?user=uiGzyb0AAAAJ

## EDUCATION

Currently 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-objective 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 Keras and TensorFlow 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  
French

European Level C2  
Native speaker

Python

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Java  
C/C++

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TensorFlow  
Keras

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Linux

Git

SLURM

Jupyter

JetBrains IDEs

SQL

Scikit-learn

SciPy

Matplotlib

Android SDK

## SOME PROJECTS

CTCModel

Easy-to-use Connectionist 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 > Ubuntu
- Bass player, Esperanto speaker, member of the French Association of Lockpickers