

# CYPRIEN RUFFINO

## PhD Student in Machine Learning

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24 years old

## EDUCATION

Currently enrolled in: PhD in Machine Learning

INSA de Rouen

📅 2017-2020 (Estimated)

Master's Degree in Software Engineering

Université d'Orléans

📅 2015-2017

📍 Valedictorian

Bachelor's Degree in Computer Science

Université d'Orléans

📅 2012-2015

## 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

- Structured data generation with Generative Adversarial Networks
- Multi-objective training of Generative Adversarial Nets
- 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 mobile devices with Convolutional LSTMs
- Development of a prototype recognition system with TensorFlow
- 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. Dilated Spatial Generative Adversarial Networks for Ergodic Image Generation, **Cyprien Ruffino**, Romain Hérault, Eric Laloy, Gilles Gasso *Conférence sur l'Apprentissage automatique*, 2018

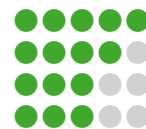
## DEVELOPMENT SKILLS AND LANGUAGES

Python

Java

C/C++

Scala



Keras

TensorFlow



English

French

European Level C1

Native speaker

Linux

Git

SLURM

SQL

CUDA

SciPy

Scikit-learn

OpenCV

## SOME OTHER PROJECTS



PyChip8

📅 Personal project

A scriptable CHIP-8 emulator written in pure Python



Simsart

📅 Bachelor internship

Cross-platform visualization app for computability theory research

## TEACHINGS

Computer science 1

📅 2018-2020

📍 INSA de Rouen

Introduction to algorithmics and programming in Pascal

Applied statistics for data science

📅 2018-2020

📍 INSA de Rouen

Statistical data analysis and visualisation, regressions and testing, with Numpy.

## AND ALSO...

- PhD students representative, LITIS lab council's voting member, 2018–2020
- President of the CS student's association, 2015–2016
- Sysadmin of several of the LITIS GPU computation servers