

# PAUL NOVELLO

## PhD Candidate

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## EXPERIENCE

### PhD Candidate

#### CEA Cesta - Ecole Polytechnique - Inria Saclay

Nov 2018 – Now

Bordeaux - Palaiseau, France

Deep Learning for high performance numerical simulations.

### Data Scientist - Remote

#### Intento>

June 2017 – Nov 2018

Bordeaux, France

Implementation of several data analysis algorithms:

- Creation of a server automatically processing visitor databases from client websites
- Implementation of data analysis algorithms: website visitor's fidelity scoring, visitor's profile clustering and classification.

### Tutorial teacher (khôlles) in Mathematics

#### Lycée Chaptal - CPGE

Sep 2015 - June 2016

Paris, France

- Preparation and marking of khôlles for students of preparatory classes for engineering schools.

## PROJECTS

### Explainable Hyperparameters optimization for Deep Learning

#### On going

- Optimization algorithms that allow understanding the impact of hyperparameters on Deep Neural Networks accuracy.

### Variance Based Samples Weighting for Supervised Learning

#### Preprint - submitted

- Improving accuracy of Deep Neural Networks by weighting the samples of the training data set.

### Taylor Based Sampling Scheme for Machine Learning

#### Workshop paper

- Methodology for sampling efficient designs of experiments for Machine Learning in Computational Physics.
- Accepted in Second Workshop on Machine Learning and the Physical Sciences (NeurIPS 2019).

### Deep Unsupervised Representation Learning

#### MSc Thesis

- Unsupervised representations of the concept of counting from images using Autoencoders and GANs.
- Evaluation of randomness in artificial dynamics such as cellular automata.

## EDUCATION

### MSc Statistics

#### Imperial College London

2017 – 2018

London, UK

- Specialization in Machine Learning and Computational Statistics.

### Diplôme d'Ingénieur

#### Telecom ParisTech

2014 – 2018

Paris, France

- Major in random modelling and scientific computing, signal processing

## SKILLS

Python	Tensorflow	R	Matlab
SLURM	Git	C++	Docker
			SQL

## SIDE EXPERIENCE

### Internships

#### Business Developer - Intern

##### Hubstairs

2017

Bordeaux, France

#### Consultant - Intern

##### Tera Consultants

2016 – 2017

Paris, France

### Associative Experience

#### Project Manager

##### Télécom Etude

2015 - 2016

Paris, France

- Managing projects conducted by Telecom ParisTech students for start-ups.

#### President

##### La Scène

2015 - 2016

Paris, France

- Regular organization of averagely 250 people concerts.

## LANGUAGES

- French: Native
- English: Fluent
- Spanish: Intermediate