

# Luiz Gustavo Hafemann

## Machine Learning researcher

PhD candidate in Machine Learning at ÉTS. I have been modelling and training deep learning systems for computer vision for the past 5 years, with 7 published articles (over 100 citations on google scholar).

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## WORK EXPERIENCE

### Software engineer

ExxonMobil

2012 – 2015

Curitiba, Brazil

#### Achievements/Tasks

- Software engineer for web-based applications, using C# .NET.
- Lead developer for a Database Automation solution and a Help Desk application, coordinating activities of 4 other developers. Used Scrum to manage the projects.

### Database administrator

ExxonMobil

2009 – 2012

Curitiba, Brazil

#### Achievements/Tasks

- Database support for mission-critical SQL Server applications.
- Lead developer for inhouse task automation applications.
- Coordinated activities for large-scale rollout of database related tools.

## EDUCATION

### PhD in Machine Learning

École de Technologie Supérieure

2015 – Present

Montreal, Canada

#### Details

- Project: Learning Features for Signature Verification.
- 2 journals (Pattern Recognition, IJDAR), 3 conference publications (ICPR, IJCNN, IPTA).
- Participated in the Montreal Deep Learning Summer School (2015 and 2016).

### MS in Informatics

Federal University of Parana

2013 – 2014

Curitiba, Brazil

#### Details

- Project: Deep Learning for texture classification.
- 2 conference publications (ICPR, IJCNN).

### BS in Computer Science

Federal University of Parana

2005 – 2008

Curitiba, Brazil

#### Details

- Project: Data warehouse modelling for a sales application.

## SKILLS

Machine Learning

Python

Tensorflow

Theano

Git

C++

C#

## PROJECTS AND ACHIEVEMENTS

### Kaggle competitions expert

*NIPS 2017 competition on adversarial attacks: silver medals in attacks; bronze medal in defense.*

### Merit scholarship recipient (FRQNT/PBEEE)

*Awarded a merit scholarship for international students from FRQNT.*

### Lecturer on Deep Learning for CV (08/2016)

*Presented a 15-hour tutorial on Deep Learning for Computer Vision to graduate students in PUC-PR and UFPR in Curitiba/Brazil.*

### Maintainer of DESLib (dynamic ensemble selection)

*Worked on the creation of the library, helping the design of unit and integration tests, fixing bugs and creating the distribution package in pypi.*

### Contributor to Lasagne (Deep Learning library)

*Implemented Spatial Pyramid Pooling on the lasagne library (being ported to tensorflow).*

## CERTIFICATES

### Coursera courses (2012 – 2014)

*Machine Learning, Probabilistic Graphical Models (with distinction), Neural Networks for Machine Learning, Calculus: Single Variable.*

## LANGUAGES

English



Portuguese



French



## INTERESTS

Representation Learning

Adversarial machine learning

Climbing

Snowboarding

Board games