

Luiz Gustavo Hafemann

Computer Vision researcher

Computer Vision Researcher at SPORTLOGiQ. I have been modelling and training deep learning systems for computer vision for the past 6 years, with 9 published articles (over 200 citations on google scholar), including top tier venues such as CVPR and IEEE Transactions on Information Forensic and Security.

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WORK EXPERIENCE

Computer Vision Researcher SPORTLOGiQ

04/2019 – Present

Montreal, Canada

Achievements/Tasks

- Applying machine learning and computer vision to sports analytics

Software engineer / Database administrator ExxonMobil

2009 – 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 support for mission-critical SQL Server applications.

EDUCATION

PhD in Machine Learning École de Technologie Supérieure

2015 – 2019

Montreal, Canada

Details

- Project: Learning features for Signature Verification.
- 3 journal papers (IEEE Transactions on Information Forensics and Security, Pattern Recognition, IJDAR), 4 conference publications (CVPR, 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

Pytorch

Tensorflow

Theano

Git

C++

C#

PROJECTS AND ACHIEVEMENTS

NIPS Competitions on Adversarial Examples

1st place on the NIPS 2018 Adversarial Vision Challenge (untargeted attack track), and 3rd place on two other tracks. On the NIPS 2017 competition, got 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 organizing the library to be included in scikit-learn-contrib.

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