

ALEXANDRE ARAUJO

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EDUCATION

PSL Research University, Université Paris-Dauphine

Ph.D. Candidate in Computer Science (Expected defense: Feb. 2021)

Paris, France

2017 – Present

○ Subject: Building Compact and Secure Deep Neural Networks

○ Advisors: Pr. Jamal Atif, Pr. Yann Chevaleyre and Dr. Benjamin Negrevergne

SKEMA Business School

Master in Economics and Project Management

Lille, France

2013 – 2016

Université de Versailles

Mathematics - Physics

Versailles, France

2008 – 2010

PUBLICATIONS

On Lipschitz Regularization of Convolutional Layers using Toeplitz Matrix Theory

Alexandre Araujo, Benjamin Negrevergne, Yann Chevaleyre and Jamal Atif

Thirty-Fifth AAAI Conference on Artificial Intelligence (2021)

Advocating for Multiple Defense Strategies against Adversarial Examples

Alexandre Araujo, Laurent Meunier, Rafael Pinot, and Benjamin Negrevergne

Workshop on Machine Learning for CyberSecurity (MLCS@ECML-PKDD) (2020)

Theoretical Evidence for Adversarial Robustness through Randomization

Rafael Pinot, Laurent Meunier, Alexandre Araujo, Hisashi Kashima, Florian Yger, Cedric Gouy-Pailler and Jamal Atif

Advances in Neural Information Processing Systems 32 (2019)

Understanding and Training Deep Diagonal Circulant Neural Networks

Alexandre Araujo, Benjamin Negrevergne, Yann Chevaleyre and Jamal Atif

24th European Conference on Artificial Intelligence (ECAI 2020) (2020)

Training Compact Deep Learning Models for Video Classification using Circulant Matrices

Alexandre Araujo, Benjamin Negrevergne, Yann Chevaleyre and Jamal Atif

The European Conference on Computer Vision (ECCV) Workshops (2018)

TEACHING

Master Data Science – Ecole Polytechnique

Data Science & Machine Learning Project

Paris, France

2016 – 2020

Master IASD – PSL Research University, Université Paris-Dauphine

Data Mining & Machine Learning

Paris, France

2019

Master ID – PSL Research University, Université Paris-Dauphine

Data Mining & Machine Learning

Paris, France

2019

SUPERVISED INTERNSHIPS

Alexandre Verine: Master student, Summer 2019

A dive into Adversarial Attacks in the latent space with Invertible Networks

INDUSTRY EXPERIENCE

Wavestone

Ph.D. Candidate – CIFRE (Industrial Agreements for Training through Research)

Data Scientist

Paris, France

2017 – 2020

2015 – 2017

Amazon

Data Engineer Intern

Luxembourg

dec. 2014 – may 2015

INVITED TALKS

INSIS – French National Center for Scientific Research

January 2021

PFIA – French AI conference

June 2020

International Cybersecurity Forum

January 2020

Limits of AI – BPI Conference

June 2019

SOFTWARE

Advertorch : Contributor of open-source library for adversarial robustness research with PyTorch

Circulant Youtube-8M: Author of open-source library for training efficient & compact Deep Learning model for video classification

Adversarial Robustness Through Randomization: Author of open-source library for training randomized neural networks to be robust against adversarial attacks

TECHNICAL SKILLS

Programming Languages : Python, C++, SQL

Deep Learning Frameworks : TensorFlow, PyTorch

ML Libraries: XGBoost, LightGBM, Scikit-Learn

Data Science Framework : OpenCV, SciPy, NumPy, Pandas