

# EDOUARD YVINEC

Research Scholar - Computer Science & Mathematics



## CONTACT

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## SKILLS

Deep Learning 4+ yrs

Learning Theory 2+ yrs

Applications to CV 4+ yrs

Applications to NLP 2+ yrs

Python 5+ yrs

TensorFlow/Keras 4+ yrs

PyTorch 3+ yrs

## LANGUAGES

French native

English

## PEER-REVIEWS

- 5 articles at **CVPR**
- 12 articles at **NeurIPS**
- 8 articles at **others**

## EDUCATION

Ph. D. - artificial neural networks acceleration 2020 - ongoing

Sorbonne-Université & Datakalab

Master 2 MVA 2019 - 2020

ENS Paris-Saclay, passed with highest honour.

## WORK EXPERIENCE

Organization of NeurIPS@Paris 2022

Sorbonne

Lead Instructor 2021 - on going

Centrale-Supelec (M2), Epita (M2) and Sorbonne-Université (two classes in M2)

Internship on Visual Object Tracking. 2021

Datakalab

Internship on Gaze-detection. 2020

Datakalab

## PUBLICATIONS

Neural Network Pruning 2021 - on going

Three articles on pruning RED (NeurIPS 2021), RED++ (TPAMI) and SInGE (NeurIPS 2022). RED and RED++ focus on removing redundant operations without access to any data. SInGE bridges the gap between attribution methods and pruning in order to design new neuron importance criterion.

Neural Network Quantization 2022 - on going

Three articles on data-free quantization SPIQ (WACV 2023), PowerQuant (ICLR 2023) and REx (under review). The key challenge is to allow for finer quantization without changing the inference process.

Neural Network Architecture 2021 - on going

Batch-normalization folding is essential in neural network compression. I published at IJCAI 2022, an optimal solution to this problem.

Computer Vision 2020 - on going

My initial center of interest in ML was computer vision. During an internship, I published a work on gaze tracking DeeSCo at FG 2020.