

# SAMUEL DUBUIS

## 6 MONTHS INTERNSHIP

»» I am in the midst of my master in Communication Systems at EPFL, with a specialization in Signals, Images and Interfaces. I am currently looking for a 6 months internship in the Visual Computing field, in which I could do my Master's Project.

### »»» EDUCATION

#### MSc. in Communication Systems

EPFL, 2019-2021

» Specialization in Signals, Images and Interfaces

#### BSc. in Communication Systems

EPFL, 2015-2019

» Visual Computing Track

#### Year Abroad

Little Rock Catholic HS for Boys, USA, 2011-2012

» A year of study and cultural experience in Arkansas, USA

» Consequently improved my english skills and had the opportunity to play basketball

#### Maturité Gymnasiale

LCC, Sion, 2009-2016

» Specific track in advanced maths, physics and applied maths

### »»» EXPERIENCE

#### Project Assistant / Auxiliary

VPSI, EPFL, 2018/06 - now

» Assistant of operations manager for production launch, management of backups, creation and use of automation scripts

» Support for the EPFL websites redesign project, CMS migration, new graphical chart

#### Student Assistant

EPFL, 2018-2021

» TA for multiple courses at EPFL

### »»» MAIN PROJECTS

» MSc. Project : *Fingerveins dataset augmentation for biometric recognition*

Global-ID & IVRL, EPFL

- Augmentation of the dataset of fingerveins used for biometric recognition with help of generative models and deep learning

» BSc. Project : *Simulation of moiré effects for counterfeit prevention*

Innovview Sàrl & IVRL, EPFL

- Recreation of arrays of lenses from depth images in MatLab, which were used to simulate moiré effects at nanoscopic scale in Blender

» *Multiple Generative Adversarial Networks analysis for predicting photographer's retouching*

CS-413, EPFL

- Building of deep neural network to recreate an artist's retouching of an image over thousand of images and analysis of different models

### »»» EXTRA-PROFESSIONAL ACTIVITIES

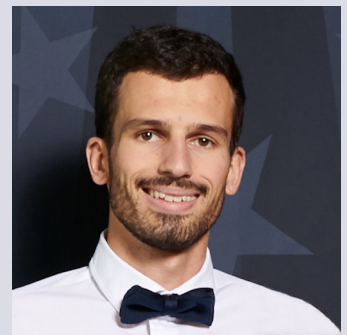
#### Basketball

» Ex-player in 2<sup>nd</sup> Swiss division from 2012 to 2020

» Team captain in 2014/2015 and 2019/2020 season

» Assistant coach for multiple camp of about 100 children of age 10 to 15

#### Volunteer for multiple sport events and organizations



25 years old - Swiss

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🖱 samdubuis.github.io

🌐 samdubuis

in in/samueldubuis

🚗 Driving licence

### LANGUAGES

French - C2 English - C1

German - B1 Italian - A2

( Certificate of Advanced English )

### FIELDS

🔍 Signals and Images Processing

👁 Computer Vision

📊 Machine Learning

🏗 Deep Learning

📀 Data Analysis

### TECHNOLOGIES

</> Python </> PyTorch

</> TensorFlow </> RePast

</> MatLab </> JAVA

</> OpenCV git Git

📄 LaTeX 🌐 Wordpress

### TOOLS & OS

</> Jupyter >\_ Terminal

📦 Blender 🖼 Gimp

</> VS Code 🍃 Overleaf

🐧 Linux 🖱 Windows