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 combined to Machine and Deep Learning, 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 : *GAN-based Finger Vein Image Augmentation for Biometric Authentication* — Global-ID & IVRL, EPFL
- Generation of large number of finger vein images from small number of real images using deep generative models
- Design of a GAN-based data augmentation algorithm for synthesization

» BSc. Project : *Simulation of moiré effects for counterfeit prevention* — Innoview 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 2nd 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

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25 years old - Swiss
- Lausanne, VD, Switzerland
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- samuel.dubuis@netplus.ch
- samdubuis.github.io
- samdubuis
- 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
- TensorFlow
- MatLab
- OpenCV
- LaTeX
- PyTorch
- RePast
- JAVA
- Git
- Wordpress

TOOLS & OS

- Jupyter
- Blender
- VS Code
- Linux
- Terminal
- Gimp
- Overleaf
- Windows