

SAMUEL DUBUIS

FULL-TIME JOB

»» Graduating from a Master ès Science in Communication Systems at EPFL, I am looking for a full-time job in the industry. My field of work is mainly the Visual Computing and Image Processing one combined to Machine and Deep Learning.

»»» EDUCATION

MSc. in Communication Systems

2019-2021



- » EPFL (Swiss Federal Institute of Technology in Lausanne)
- » Specialization in Signals, Images and Interfaces
- » Thesis' title : *Qualifying (Smartphone) Digital Camera Fidelity* at SICPA SA

BSc. in Communication Systems

2015-2019



- » EPFL (Swiss Federal Institute of Technology in Lausanne)
- » Visual Computing Track
- » Thesis' title : *Simulation of moiré effects for counterfeit prevention* at Innoview Sàrl

Year abroad as a foreign student

2011-2012



- » Little Rock Catholic High School for Boys, AR, USA
- » Year of study and cultural experiences in Arkansas, USA
- » Consequently improved my english skills and had the opportunity to play basketball

»»» EXPERIENCE

Graphical Security Intern

2021/02-2021/08



- » SICPA SA, Prilly, CH
- » EPFL Master Thesis done in industry

Project Assistant / Auxiliary / Teaching Assistant

2018/01-2021/02



- » EPFL (Swiss Federal Institute of Technology in Lausanne)
- » Assistant of operations manager for production launch, backups management, automation scripts. Support for websites redesign project, CMS migration, new graphical chart
- » Data mining and analysis for the refactoring of Continuing Education group

»»» MAIN PROJECTS

» *Qualifying (Smartphone) Digital Camera Fidelity*

- » Develop and select quality metrics for camera qualification of smartphone checking security stamps
- » Establish model and relation between field metrics and lab metrics

» *GAN-based Finger Vein Image Augmentation for Biometric Authentication*

- » Generation of large set of FV images from small set of real images using deep generative models
- » Design of a GAN-based data augmentation algorithm for synthesization

» *Simulation of Moiré Effects for Counterfeit Prevention*

- » Recreation of arrays of lenses from depth images in MatLab
- » Simulation of moiré effects at nanoscopic scale in Blender

» *Multiple Generative Adversarial Networks Analysis for Predicting Photographer's Retouching*

- » Building of deep neural network to recreate an artist's retouching of an image over thousand of images
- » Analysis of different GAN models

»»» EXTRA-PROFESSIONAL ACTIVITIES

Basketball

- » Ex-player in 2nd Swiss division from 2012 to 2020, team captain for three seasons
- » Assistant coach for multiple camp of about 100 children of age 10 to 15

Volunteer for multiple sport events and organizations



26 years old - Swiss

- 📍 Lausanne, VD, Switzerland
- 📞 +41 77 454 57 54
- ✉️ 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	</>	PyTorch
</>	TensorFlow	</>	RePast
</>	MatLab	</>	JAVA
</>	OpenCV	git	Git
📄	LaTeX	🌐	WP

TOOLS & OS

</>	Jupyter	>_	Terminal
📦	Blender	🖼️	Gimp
</>	VS Code	🍃	Overleaf
🐧	Linux	🪟	Windows