

# Hugo Levy-Falk

THIRD YEAR ENGINEERING STUDENT AT CENTRALESUPÉLEC AND MSc STUDENT IN OPTICS AND PHOTONICS AT IMPERIAL COLLEGE LONDON

17 Chemin du Pavillon, 04160 L'ESCALE, France

☎ (+33) 7-62-73-99-24 | ✉ me@klafyvel.me | 🏠 klafyvel.me | 🌐 hugo-levy-falk

## Education

---

### Imperial College London

London, United Kingdom

MASTER OF SCIENCE IN OPTICS AND PHOTONICS

Oct. 2019 - today

- Imaging, Optical devices and measurements, Lasers, Optical communications, Information theory, Non linear optics, Advanced Topics in Nanophotonics, Photonic structures, Optoelectronics, Fibre optics.

### CentraleSupélec

Metz, France

ENGINEERING SCHOOL

Sept. 2017 - today

- Physics (Electromagnetism, quantum physics, solide state, semiconductors), Signal processing, Electronics and Computer Science.

### Lycée Paul-Cézanne then Lycée Thiers

Aix-en-Provence, Marseille, France

SCIENTIFIC PREPARATORY CLASSES

Sept. 2015 - Jul. 2017

- Advanced Mathematics and Physics

### Lycée Pierre-Gilles-de-Gennes

Digne-les-bains, France

HIGH SCHOOL

Sept. 2012 - Jul. 2015

- French Baccalauréat with a major in Science. Obtained with high honors.

## Skills

---

### Signal processing and physics

Information theory, Analogue and digital electronics, Optics, Photonics

### Software development

Julia, Python, Java, C, HTML/CSS, OCaml, Matlab

### Word processing

LaTeX, Beamer, LibreOffice

### Languages

French (mother tongue), English (IELTS : 7.5, CEFR Level : C1), German (A2)

## Experience

---

### CEA / DRF / IRFU / DPHP

Paris-Saclay, France

INTERNSHIP AS ASSISTANT ENGINEER

17 Jun. 2019 - 31 Aug. 2019

Wrote an interface for monitoring the NectarCAM Camera, part of the Cherenkov Telescope Array. Enhanced a Poissonian generator.

Wrote a script looking for bursts in the camera's sequences of events in order to find exotic particles such as magnetic monopole.

## Extracurricular Activity

---

### FedeRez

France

MEMBER OF THE TECH TEAM

May. 2018 - today

- Maintained and worked on infrastructures proposed for free to the members in a federation of student associations, which aims to coordinate and promote exchanges between the IT associations of French Grandes Ecoles and universities.

### Re2o development team

France

CORE MEMBER

Oct. 2017 - today

- Got involved in the development of a free software, built by members of FedeRez from everywhere in France, using Python and Django. Re2o allows the management of a network by automating various tasks and provides a simple interface for users to subscribe and admins to change various settings of their network.

### Rézo Metz

Metz, France

PRESIDENT AND LEADER OF THE TECH TEAM

Sep. 2017 - today

- Became a member in 2017, then president and leader of the tech team in 2018, of an association which provides an internet connection to its members in the CentraleSupélec Metz campus residence.

## Honors & Awards

---

2018 **Semifinalist**, ActInSpace world hackathon

Toulouse, France

2018 **First prize, creativity prize and entrepreneurship prize**, ActInSpace Luxembourg hackathon

Luxembourg