

# JULIEN VIGNOUD

## CONTACT

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[Personal Portfolio](#)

 [Github account](#)

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1022 Chavannes-près-Renens

## HARD SKILLS

- › Git
- › Python
  - › NumPy
  - › pandas
  - › TF, PyTorch, Sklearn
  - › PySpark
- › Scala
  - › Spark

## SOFT SKILLS

### Communication

Improved by advocating door-to-door for Pro Natura and through the course "Rhetoric: Speaking and Writing for Impact".

### Curiosity

I am eager to learn new material, a new technology or gain experience in an unknown field. Curiosity not only encourages me to search for new insights but also to learn from others.

## LANGUAGES

- › French (native)
- › English (fluent, C1)
- › Vietnamese (beginner)

## INTERESTS

Hiking, reading, cooking, dancing, cycling, playing the piano and guitar

## PROFILE

A highly-motivated student recently graduated with a MSc in Data Science. My studies gave me strong foundations in data science and have taught me how to learn quickly and efficiently. I improved my teamwork and communication skills through courses and job experiences. I aim to leverage these skills and gain experience by working in the Data Science field. The ideal professional opportunity would allow me to learn new technical skills and use my AI knowledge in a domain of interest.

## EDUCATION

### Master degree, Data Science — 2021 - Sept. 2023

**EPFL (École Polytechnique de Lausanne)**, Lausanne, Switzerland

The 6-month internship was completed at *Oracle Labs, Zurich* and the 6-month Master thesis at UC, Berkeley.

Completed with **5.8/6**

### Bachelor degree, Communication Systems — 2017-2020

**EPFL (École Polytechnique de Lausanne)**, Lausanne, Switzerland

Final year at **KTH (Royal Institute of Technology)**, Stockholm, Sweden

Completed with 5.2/6

## PROFESSIONAL EXPERIENCE

### Research Scholar at UC Berkeley — Spring 2023 | *Skin cancer diagnosis*

In the context of my Master's thesis, I worked at the **University of California, Berkeley** on a new method to analyze individual error patterns in clinician skin cancer diagnoses. To uncover clinician's idiosyncratic diagnostic errors, we utilized computer vision to learn image embeddings and create skin lesion categories. While a paper is currently under review, my thesis report is available upon request. The thesis received **the maximal grade** upon its defense.

### Research Assistant at Oracle Labs — Autumn 2022 | *Financial fraud*

6-month internship at **Oracle Labs**, Zurich, starting in September 2022. The internship aimed at developing a financial fraud detection method through graph neural networks.

### Research Scholar — 2020 - 2021 | *Digital education*

Funded by an EPFL grant, I worked alongside my studies at the *ML4ED* lab, which leverages Machine Learning to improve education. The first project focused on early prediction of students success in flipped classrooms, and resulted in a **publication** at the *EDM* conference. The second project addresses irregular time series, which are ubiquitous in digital education, and has been **published** at the *AAAI* conference following my work.

## COURSE PROJECTS

- › **Tuberculosis diagnosis**, Deep Learning for automated diagnosis of Tuberculosis from lung ultrasound images. This 6-month project was awarded **the maximal grade** (6/6). Report available upon request.