



# Clement Wang

+33 783451888 @ clementwang.pro@gmail.com

## Links

 [GitHub](#) clementw168  
 [LinkedIn](#) clem-wang

## Tech skills

### DATA SCIENCE LIBRARIES

- Pytorch, Tensorflow
- OpenCV
- Scikit learn, Pandas, Numpy

### ML TOPICS

- Regressions, SVM, XGBoost
- PCA, TNSE
- K-means, DBSCAN, GMM
- Genetic algorithm
- Image classification
- Object detection
- Semantic segmentation
- Key points estimation
- Perceptual loss
- Few-shot learning
- Interpretability
- Audio features
- Speech-to-text

### TOOLS

- Bash, Git, Poetry
- Jupyter, Weights & Biases
- Streamlit, Plotly
- SQL, AWS

## Languages

- French, native language
- English, IELTS 7.0
- Chinese

## Extracurricular

### MACHINE LEARNING SPECIALIZATION

STANFORD ONLINE

 Aug 2022

### APPLIED DEEP LEARNING COURSE

MAZIAR RAISSI - UNIVERSITY OF COLORADO BOULDER

 Mar 2022 - Ongoing

### PRIVATE TUTOR

LES SHERPA

 Dec 2020 - Apr 2021

70+ hours of courses in Mathematics and computer science for undergraduate students


## Profile

Master of Science student with one year of internship experience in Data science. Looking for a five-to-six-month internship starting in February 2023.

## Professional experience

### DATA SCIENTIST INTERN POLYGON TECHNOLOGIES, INC.

 Aug 2022 – Ongoing

 Santa Monica, US

The project is about finding metrics from video data to diagnose learning differences.

- Extracting audio and image features from video data: MFCC features, voice activity, face landmarks and head pose.
- Benchmarking and setting up speech-to-text algorithm pipelines: Wave2vec 2.0, Whisper, AWS Transcribe.
- Video data-mining with time series segmentation and classification.
- Interactive data visualization using Plotly and Streamlit.

**Techs:** Pytorch • Pandas • OpenCV • AWS • Plotly • Poetry

### MACHINE LEARNING CONSULTANT PARIS DIGITAL LAB

 Feb 2022 – Jul 2022


 Paris, France

Three real-world projects with different companies

- **French Ministry of Armed Forces:** Testing deep learning algorithms on radio processing tasks to replace heavy radio equipment. Achieved 0.95 mAP @ IOU 0.5 training YOLOv3.
- **L'Oréal:** Retrieving lipstick from selfies. Estimation of optical properties of lipsticks from selfies. Implementing the fine-tuning pipeline for deep regressions with uncertainty estimations, achieving 1% normalized MSE.
- **Oorion:** Exploring automatic annotation of classification and object detection datasets using referring expression comprehension, zero-shot and few-shot algorithms.

**Techs:** Pytorch • Tensorflow • OpenCV • Hugging face • Weights & Biases

### PRESIDENT AUTOMATANTS

 Oct 2020 – Jan 2022

 Paris, France

AI student organization of CentraleSupélec, promoting Machine Learning.

- Managing a team of 20 people and organizing events and competitions.
- Providing courses and practical works to 50+ people.
- Gathering knowledge and writing summaries from 70+ research papers.
- Teaching beginners to implement Neural Style Transfer from the paper.

## Education

### MASTER OF SCIENCE ECOLE CENTRALE-SUPÉLEC, PARIS

 Sept 2020 – Ongoing

 Paris, France

- Cumulative GPA: 3.84
- 2nd best French engineering school and part of the University of Paris Saclay, 16th in the Shanghai Ranking, 1st in mathematics.
- Relevant coursework: machine learning, statistics and learning, parallel calculus, big data in health, algorithm & programming, signal processing.

### PREPARATORY COURSES

LYCÉE HENRI IV

 Sept 2018 – Jul 2020

 Paris, France

- Highly selective 2-year program, offering intensive preparation to enter the French "Grandes Ecoles".
- Relevant Coursework: Algebra, Analysis, Probabilities, Quantum mechanics, Thermodynamics, Electromagnetism, Computer science.