

# CLEMENT WANG

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## PROFILE

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Master of Science student in Computer science with a strong interest in Machine learning.

## EDUCATION

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**Master of Computer Science**, CentraleSupélec — University of Paris-Saclay Sept 2020 – Present  
Top-ranked French College part of the University of Paris-Saclay, 16th in the Shanghai Ranking. GPA: 3.84  
Relevant coursework: machine learning, statistics, parallel calculus, algorithm & complexity, signal processing.

**Preparatory Courses**, Lycée Henri IV Sept 2018 – Jul 2020

## EXPERIENCE

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**Computer vision R&D Intern** Feb 2023 – Ongoing  
Stryker *Freiburg-im-Breisgau, Germany*

- Developed a framework of 3D position tracking of surgery instruments from an RGB camera with 2D key points detection using High-resolution network and triangulation.
- Automated annotation and data cleaning pipelines of semantic segmentation, key points detection, and object detection datasets from optical trackers and projective geometry.

**Co-Founder & MLOps Engineer** Dec 2022 – Ongoing  
Photogen *Remote — Paris, France*

- Implemented and pushed state-of-the-art Diffusion models to achieve photorealism by adapting Dreambooth.
- Set up cloud infrastructure on AWS and optimized costs with buckets, batch jobs, autoscaling, and queue service.

**Data scientist Intern** Aug 2022 – Jan 2023  
Polygon Technologies *Santa Monica, United States*

- Led research on how to diagnose mental diseases from videos of cognitive tests. Benchmarking performance of speech-to-text, voice activity, face landmarks, and human pose detection algorithms. Video segmentation from time series segmentation on extracted features.
- Accelerated pipelines by setting up AWS Batch service with GPU.

**Machine Learning Consultant** Feb 2022 – Jul 2023  
Paris Digital Lab *Paris, France*

- **French Ministry of Armed Forces**: Achieved 0.95 mAP @ IOU 0.5 with YOLOv3 on radio wave detection.
- **L'Oréal**: Retrieved lipstick on selfies through optical properties. Reached 1% normalized MSE with deep regression.
- **Oorion**: Automated annotation of classification and object detection datasets with few-shot algorithms.

## EXTRA-CURRICULAR ACTIVITIES

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**President of Automatants, AI student organization** Managed a team of 20 members, provided courses for 50+ students, organized events related to AI, gathered knowledge and wrote summaries of 100+ papers.

**Machine Learning Specialization** Certification delivered by Stanford Online.

**Private tutor** 100+ hours of courses in Mathematics and computer science for undergraduate students.

## SKILLS

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<b>Frameworks</b>	Pytorch, Tensorflow, Pandas, NumPy, Sklearn, OpenCV, Plotly, Streamlit
<b>Technologies</b>	Bash, Linux, Docker, AWS, Jupyter, Git, Weights & Biases