

Ismael Ouattara

Student at Ecole Polytechnique/Telecom Paris Looking for
cyber security and machine learning thesis

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Education

- 2021 – Ongoing **Telecom Paris and Polytechnic Paris Institute**, Palaiseau, France's leading schools of informatic
Spécialization: **Cyber Security**, **Machine Learning** and **Mobile Network**.
Master IP Paris in **Machine Learning**, **Communication** and **Security**.
- 2018 – 2022 **Ecole Polytechnique**, Palaiseau, One of france's leading schools of science and engineering
Spécialization: **Cyber Security** and **Machine Learning**.
Courses followed: **Computer Science**(Computer Architecture, Network and Information Security, Cryptology, Distributed Computing, Machine and Deep Learning, Compilation), **Applied Mathematics**(Statistics, Markov).
- 2016 – 2018 **INP-HB**, Yamoussoukro, Ivory Coast, Intensive undergraduate program leading up to competitive nationwide entrance examinations to the "Grandes Ecoles de France"("Classes préparatoires")
ranked 15th in the entrance examination at "Ecole polytechnique", Advanced courses in **mathematics** and physics.

Work experience

- March 2022 – Ongoing **Research Intern**, *ALCATEL-LUCENT INTERNATIONAL NOKIA BELL LABS*, Nozay, France
◦ Machine Learning based detection attacks on 5G network using **knowledge graph convolutional network**.
- April 2021 – August 2021 **Research Intern**, *INRIA*, Rennes, France
◦ Design of a meta model of **cryptographic** architectures for verifying compliance with the good practice.
- June 2020 – August 2020 **Summer Intern**, *CIE*, Abidjan, Côte d'Ivoire
◦ Detection of anomalies on electrical installations from aerial images using **Keras**, **Tensorflow** and **Pytorch**.
- January 2021 – December 2021 **Webmaster**, *FAOS*, Paris, France
◦ Business accelerator agency: Development of Faos platform with wordpress.
- October 2018 – March 2019 **Teaching assistant and oral examiner(colle)**, *LYCÉE JANSON DE SAILLY*, Paris, France
◦ Delivered classes to students(Classes préparatoires).

Project

- September 2018 – March 2022 **Working on projects**
◦ Implementing a point-to-point **communication** system of an **optical fiber**, a **generative deep neural network** representing the channel, a predictive model for the receiver.
◦ Setting up a **dynamic pricing** and **recommandation system** on sales platforms to reduce food waste.
◦ **Predicting** which driver signups are most likely to start driving for uber and the number of retweets of a tweet.
◦ Resolution of many challenges about **cyber attacks** on root me platform(pseudo: Xma99).
◦ Implementing **snort** rules to build firewall for securing a local network and **yara** rule to detect a specific malware.
◦ Implementing a mini c **compiler** using java.

Voluntary experience

- June 2019 – March 2021 **Member of X-Afrique**, *Ecole Polytechnique*, France
◦ X-Afrique works towards promoting the african culture, personal and professional opportunities in Africa and the challenges that young african leaders have to overcome in the near future.
- September 2018 **Leadership and military training**, *French army*, La Courtine, France
◦ Workshops in command exercises, development of leadership and teamwork;
◦ Attended military training to improve the mental and physical strength.
◦ Organizing incorporation for the new student at "Ecole polytechnique".

Skills and personnal interests

Computer knowledge

- Programming languages: C, C++, java, python, R, Assembly language: X86.64.
- Webmastering and data management: HTML5, CSS3, JavaScript, PHP, PHPMYADMI, My SQL, Wordpress.

Languages

- French, English, Chinese, Spanish.

Sports

- **Basketball**, point guard of the school team, and former point guard of the team in high school.