Dorine CHAGNON

France
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Hard skills

Programming : Python, Java, C++, C, R, Matlab, Sagemath, Magma

Software : Wireshark, Proverif, Scyther

Computer Science : Network security, Protocol security, Secured implementations for cryptography, Parallel programming and on GPU, Data Bases, Blockchain

Mathematics : Asymmetric and Symmetric cryptosystems, Elliptic curve, Error correcting code, Information theory, Languages, grammars et automata, Machine Learning, Inferential Statistics, Quantum Cryptography

Languages

French :	Fluent
English :	Professional proficiency
2017 - 2018	Erasmus one-year stay in Southampton England – University of Southampton
Oct 2020	score **TOEIC : 970**
German :	Basic notions

Hobbies

Music

Percussion and concerto flute in orchestra during 10 years

Bells ringer in English churches during 1 year

Sport

Karaté Shotokan during 14 years
- France Kumite Cadet championship in 2012
- Black belt 1st dan

"I am a good listener of what people can suggest or complain.
I am a team worker thanks to my various internships and my school projects."

Training

2022-2025	PhD in Computer Science : Network Path Validation for Packets Delivery under the direction of Gérard Chalhoub and Kévin Thiry-Atighehchi University Clermont Auvergne
2020-2022	Master's degree in mathematics of information and **cryptology** with honours University of Rennes 1
2018-2020	Engineering degree in applied mathematics (Master's degree) (modelling, data analysis, optimization) National Institute of Applied Science (INSA) of Rennes
2015-2018	Undergraduate degree in mathematics with honours University Paris Diderot-Paris 7
2015-2018	Undergraduate degree in computer science with honours University Paris Diderot-Paris 7
2015	French general certificate of secondary education specializing in science, mathematics speciality and Latin option with honours Lycée Condorcet (94 210, France)

Professional background

Mar-Aug 2022	Internship in **cryptology** at Harmonic (Cesson Sévigné, France) under the direction of Nicolas Debomy Implementation of a cryptographic toolkit to protect the sensitive data of the products in the video chain
June-Aug 2020	Internship in Data Engineering at Veolia Nordics (Stockholm, Sweden) under the direction of Jérémy Dessalines D'Orbigny Data studies of unpaid invoices and profit and loss in order to produce reports that meet customer needs
June-July 2019	Internship in **Data Science** at Veolia S.A. under the direction of Hind Hafdi Study of time series on water data in order to forecast water consumption and detect leaks in the drinkable water network
June-July 2017	Internship in neuroscience at Paris Descartes University under the direction of Selim Eskiizmirliler Angle calculation and motion recording with Codamotion software Training workshop on virtual reality to study and heal the brain
June 2016	Internship in **network** at Paris Diderot University under the direction of Juliusz Chroboczek Installation and administration of experimental routers using Babel and HNCP (Home Networking Control Protocol) protocols (presentation during the IETF 96 in Berlin in July 2016 by Juliusz Chroboczek)