

Guillaume Rochette

Engineer in Applied Mathematics

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<https://github.com/GuillaumeRochette>

Educational Background

- 2012-2017 **National Institute of Applied Sciences of Rouen (INSA Rouen)**, *Rouen, France*,
Diplôme d'ingénieur en Mathématiques Appliquées (Orienté Recherche),
English equivalent : Msc. in Applied Mathematics and Computer Science (Research Oriented).
Main themes :
 - Statistics, Machine Learning and Artificial Intelligence.
 - Scientific and Stochastic Calculus, and Numerical Methods.
 - Mathematical Programming and Operations Research.End of Studies' Project :
 - Deep Learning for Natural Language Processing applied to Stock Market.
- 2012 **Lycée Paul Langevin**, *Suresnes, France*,
Baccalauréat Scientifique section Européenne Allemand mention Bien,
English equivalent : A-Levels in Sciences and German with distinction.

Work experience

- April-October 2017 **Thales Services**, *Toulouse, France*,
End-of-course Internship - Prototyping of a Search Engine for Satellite Imagery.
Creation of Deep Learning models adapted to High Resolution Satellite Imagery :
 - Automated Cartography and Building Detection, using Image Segmentation.
 - Similarity Search between Images using Deep Features.(<https://github.com/GuillaumeRochette/EarthBrowser>)
- June-September 2016 **BNP Paribas Personal Finance**, *Levallois-Perret, France*, Speciality Internship -
Basel II Equity Calculator, Joint Venture with Commerz Finanz Group. Study of
European Financial Regulation and Basel Accords (I and II), Knowledges in Risk
Management and Project Management.
- June-September 2015 **Université du Québec À Montréal (UQÀM)**, *Montréal, Québec, Canada*,
Technical Internship in Data Mining & Association Rules Mining under the supervision
of Pr. Petko Valtchev,
Study and implementation of numerous algorithms & creation of a new algorithm for
closed-pattern mining.
- July 2013 **PSA Peugeot-Citroën**, *Poissy, France*,
Working on the assembly line for 208/C3/DS3 cars,
Electronics and door systems check.
Working in morning & afternoon shifts.

Qualifications

Computer Science

- Programming Languages Python, C, C++, MatLab, R, SAS, SQL, Java, Fortran.
- Machine Learning Frameworks Caffe, TensorFlow, SciKit Learn, CUDA.

Languages

- English **Level C1**, TOEIC Certificate 960/990.

German **Level B2/C1**, Graduated Deutsches Sprachdiplom Stufe II (DSD II), issued by Kultusministerkonferenz (KMK) in 2012.

Other competencies

Education **Tutoring**, *Maths for first-year students..*

Sport **Handball**, *Regional League*, 5 years.

Climbing, 2 years.