NICOLAS THIEBAUT

Data scientist

nkthiebaut@gmail.com
(+33) 6 89 37 41 00, Paris

EXPERIENCE

Data Science Consultant

APRIL 2015 – PRESENT

Quantmetry

– Breast cancer **medical records analysis** with natural language processing techniques.
– Deep learning based **ChatBot** modeling and implementation.
– **Fraud detection** in weblogs with unsupervised learning algorithms (PCA, k-means) in Spark
– **Optimization of marketing call centers** with machine learning based propensity scores for an insurance
– *Teaching*: MOOC on **Big Data** (EIVP) and lectures on **Deep Learning** (UTT)

Ph.D. in Theoretical Physics

SEPT. 2011 – MARCH 2015

LPS, Paris-Sud University

– Research in theoretical and numerical condensed matter physics, teaching assistant at Paris-Sud University.
– Research fields: Strongly correlated electrons, fractional quantum Hall effect, Wigner crystals.
– Scientific programming: Monte-Carlo and linear algebra algorithms, Python and C++, parallel computing.
– Three articles published in Physical Review B (link articles / link thesis).

EDUCATION

2011-15	**LPS, Paris-Sud University**	DOCTORATE Theoretical Physics
2009-11	**Ecole Normale Superieure, Paris**	MASTER 2 Condensed Matter Physics
2005-08	**Paris-Sud University**	LICENCE Mathematics, Computer Science and Physics

SKILLS

Computer Science	*Machine learning*: regression and classification methods, tree-based algorithms, clustering, deep learning, natural language processing, Kaggle. *Tools*: Python (pandas, sklearn, theano, NLTK, gensim, spacy), R, Hadoop, Spark, SQL, Git, AWS, Docker.
Physics	*Specialism*: quantum physics, condensed matter, statistical physics. Quantum computing, particle physics, fluid mechanics, astrophysics.
Mathematics	Algebra, probability, statistics.
Languages	Fluent English, basic Spanish and Italian.

HOBBIES

Piano	Studied, taught and played in bands (jazz, latin).
Sport	Soccer, Marathons.
Reading	Novels, history of science, economics.