

# NICOLAS THIEBAUT

*Data scientist*

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

## EXPERIENCE

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### 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

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2011-15 **LPS, Paris-Sud University**

DOCTORATE

Theoretical Physics

2009-11 **Ecole Normale Supérieure, Paris**

MASTER 2

Condensed Matter Physics

2005-08 **Paris-Sud University**

LICENCE

Mathematics, Computer Science and Physics

## SKILLS

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**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

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**Piano** Studied, taught and played in bands (jazz, latin).

**Sport** Soccer, Marathons.

**Reading** Novels, history of science, economics.