

# Michael Blot

*PhD student in Deep Learning  
LIP6 UPMC-Sorbonne Universités*

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## PhD thesis (since November 2015)

Title **Deep Learning for Computed Vision**, Laboratoire d'Informatique de Paris 6, UPMC-Sorbonne Universités, France (DGA Grant)

Supervisors Matthieu CORD, Nicolas THOME

Areas of interest Computer Vision, Deep Learning, Image Classification, Gradient Descent Optimization, Information Theory, Learning Theory

## Education

2013–2014 **MS Degree**, *Paris 7 Diderot, LMFI*.  
Mathematical Logic and Computer Science Fundamentals

2010–2011 **MS Degree**, *IAE, Grenoble, Quantitative finance*.  
Probability and statistical modeling for quantitative finance

2008–2011 **Engineering degree**, *Ensimag Engineering School, Grenoble*.  
Leading French engineering school in Computer Science and Applied Mathematics

2005–2008 **Classe préparatoires aux grandes écoles**, *François Arago, Perpignan*.  
Preparation for national competitive entrance exams to leading French college of engineering

## Experience

### Vocational

2016–2017 **Math interrogator**, *Classe préparatoires aux grandes écoles, Paris*.  
Weekly oral questioning of students by group of three

April– **Intern**, *LIP6-UPMC, Paris, MLIA-LFI team*.  
October 2014 Study of fuzzy logic and fuzzy controllers. Formalization of reasoning in a first order fuzzy logic. Proposition of methods to manage missing and imprecise information in decision process using the proposed formalism

March– **Intern**, *Overlay Asset Management-BNP Paribas, Paris, Quantitative research team*.  
October 2011 Back-testing analysis of trading algorithms. Calculation of performance and risk indicators of the strategies. Advanced statistical analysis for over-fitting evaluation

### Personnal Projects

2014 **Trader bot**, 6 peoples.  
Study of machine learning algorithms such as random forest or Deep Neural Network on the task of taking investment decisions on a financial market (forex and equity)

2011 **Poker bot.**

Conception in C++ of a poker strategy simulator. Successful computation of an artificially intelligent poker player using neural networks and hand-crafted featurings. Development of evolutionary algorithms for optimization of parameters and graphical user interface to test and play against the AI

2010 **Neural Networks for Image Recognition**, 4 peoples.

Conception and computation of a Hebbian kind neural network with weekly supervised learning: association of Hebbian update scheme with supervised learning

## Languages

French **Mother tongue**

English **Fluent**

Spanish **Fluent**

## Computer skills

Programming languages C/C++, Java, Python, Lua, SQL, Ada

Library TensorFlow, Torch7, MatconvNet, Scikit Learn, Pandas, Numpy

Software Matlab, Scilab, Latex, git, Microsoft Office, Open Office

OS Linux, Windows, Mac OSX

## Interests

Sport Swimming (former high level athlete with several national titles in 2004 and 2005), rugby, surf

Poker Several years of practice in many different countries. Only source of income for two years (2012-2013)

## Publications

- [1] Michael Blot, Matthieu Cord, and Nicolas Thome. Max-min convolutional neural networks for image classification. *IEEE International Conference on Image Processing (ICIP) 2016, Phoenix, US*, September 2016.
- [2] Michael Blot, Marie-Jeanne Lesot, and Marcin Detyniecki. Transformation-based constraint-guided generalised modus ponens. *fuzzIEEE 2015 Vancouver, Canada*, November 2016.
- [3] Michael Blot, David Picard, Matthieu Cord, and Nicolas Thome. Gossip training for deep learning. *NIPS 2016 workshop, Barcelona, Spain*, December 2016.