

## Education

Imperial College London	LONDON, UNITED KINGDOM
<b>PhD. Machine Learning</b> Geometric Deep Learning & Generative Models with applications to Computer Vision. <i>Full scholarship from the Department of Computing. Supervisor: Dr Stefanos Zafeiriou.</i>	2017 – (2021)
<b>MSc. Advanced Computing - Distinction (84%)</b> <i>Awarded the Winton Capital Computing MSc Project Prize for best thesis in Computer Science (1/188 students).</i>	2015 – 2016
Grenoble INP - Ensimag	GRENOBLE, FRANCE
<b>BSc. and MSc. Applied Mathematics and Computer Science - with High Honours</b> <i>2010 - 2013: Classes Préparatoires aux Grandes Écoles PC* - Lycée Chateaubriand, Rennes, France.</i>	2010 – 2016

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## Professional Experience and Selected Projects

JPMorgan Chase & Co - Quantitative Associate Intern	LONDON, UNITED KINGDOM
<b>Systematic Trading LQR</b> Quantitative Research Off-Cycle Internship in Machine Learning. Time series forecasting and volatility modeling for automated trading of single stocks options	06/18 - 09/18
Speechmatics (Cantab Research Ltd.) - Speech Recognition Intern	CAMBRIDGE, UNITED KINGDOM
<b>Research &amp; Development</b> Improving the RNN language models by implementing research papers in TensorFlow and C++. Divided model size by 4 while keeping the same cross-entropy loss / perplexity and WER.	04/17 - 07/17
HarperCollins Publishers - Data Scientist	LONDON, UNITED KINGDOM
<b>Global Pricing and Analytics</b> Graph mining and influence maximization to maximize uplift of books on special offers. Analyzed MongoDB databases of more than 100Gb with scikit-learn and networkx.	09/16 - 03/17
Imperial College - Master's Thesis	LONDON, UNITED KINGDOM
<b>Robust Low-Rank Modeling on Tensors: New Algorithms and Extensive Comparisons</b> Devised 4 ADMM solvers and a Variational Bayes algorithm for robust tensor factorizations (extensions of matrix factorizations) in MATLAB. Compared against 11 state-of-the-art methods on computer vision benchmarks, analyzed 500Gb of experimental data, and showed improvements of up to 16% higher PSNR and FSIM. Published in top venue. <i>Supervisors: Dr Stefanos Zafeiriou &amp; Dr Yannis Panagakis.</i>	04/16 - 09/16

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## Publications

- **M. Bahri**, Y. Panagakis, and S. Zafeiriou, "Robust Kronecker-Decomposable Component Analysis for Low Rank Modeling" in International Conference on Computer Vision (ICCV) 2017
  - N. Xue, G. Papamakarios, **M. Bahri**, Y. Panagakis, and S. Zafeiriou, "Robust Low-rank Tensor Modelling Using Tucker and CP Decomposition" in European Signal Processing Conference (EUSIPCO) 2017
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## Skills

	Computing skills	Languages	
Programming ( <i>advanced</i> )	Python, Java, C, Shell	French	<i>Native</i>
Programming ( <i>intermediate</i> )	SQL, Javascript, Prolog, C++	English	<i>Fluent</i>
Modeling	MATLAB, R, NumPy/SciPy, TensorFlow, Scikit-learn	Spanish	<i>Intermediate</i>
Tools	Git, L <sup>A</sup> T <sub>E</sub> X, MongoDB		

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## Interests

Fitness, Nutrition • Elected Student Representative, *Ensimag* • Morgan Stanley Campus Ambassador, *Ensimag*

REFERENCES AVAILABLE UPON REQUEST.