Mehdi Bahri *Research & Development Data Scientist*

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Education

Imperial College London — London, United Kingdom
MSc. Advanced Computing - *Distinction (84%)* *2015 – 2016*
Focus on statistical machine learning.
*Awarded the **Winton Capital Computing MSc Project Prize** for best thesis in Computer Science (1/188 students)*

Grenoble INP - Ensimag — Grenoble, France
BSc. and MSc. Applied Mathematics and Computer Science - *with High Honours* *2013 – 2016*
Focus on statistics, numerical optimization, numerical analysis, databases, software engineering.

Lycée Chateaubriand — Rennes, France
Classes Préparatoires aux Grandes Écoles PC* *2010 – 2013*
Intensive training in mathematics, physics, and chemistry for the nationwide competitive examinations.

Professional Experience and Selected Projects

Speechmatics (Cantab Research Ltd.) - Speech Recognition Intern — Cambridge, United Kingdom
Research & Development *04/17 - 07/17*
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.

HarperCollins Publishers - Data Scientist — London, United Kingdom
Global Pricing and Analytics *09/16 - 03/17*
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.

Imperial College - Master's Thesis — London, United Kingdom
Robust Low-Rank Modeling on Tensors: New Algorithms and Extensive Comparisons *04/16 - 09/16*
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. *Supervisors: Dr Stefanos Zafeiriou & Dr Yannis Panagakis.*

Publications

- **M. Bahri**, Y. Panagakis, and S. Zafeiriou, "Robust Kronecker-Decomposable Component Analysis for Low Rank Modeling" International Conference on Computer Vision (ICCV) 2017, *accepted for publication*, Jul. 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, special session on Component Analysis for Computer Vision, *accepted for publication*, 2017

Skills

	Computing skills		Languages	
Programming *(advanced)*	Python, Java, C, Shell		French	*Native*
Programming *(intermediate)*	SQL, Javascript, Prolog, C++		English	*Fluent*
Modeling	MATLAB, R, NumPy/SciPy, TensorFlow, Scikit-learn		Spanish	*Intermediate*
Tools	Git, LaTeX, MongoDB			

Interests

Cooking, Cycling • Elected Student Representative, *Ensimag* • Morgan Stanley Campus Ambassador *Ensimag*

References available upon request.