Mehdi Bahri *Research & Development Data Scientist*

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Education

Imperial College London — London, United Kingdom
MSc. Advanced Computing - *Distinction (84%)* *2015 – (2016)*
Data Science • Machine Learning • Optimisation • Numerical Simulation.
*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 *2013 – (2016)*
Statistics • Data Mining • Operations Research • Algorithms • Numerical Analysis • Software Engineering • Databases • Operating Systems & Concurrent Programming.

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

Skills

Technical skills		Languages	
Programming *(advanced)*	Python, Java, C, Shell	French	*Native*
Programming *(intermediate)*	SQL, Javascript, Prolog	English	*Fluent*
Modeling	MATLAB, R, NumPy, Mathematica	Spanish	*Intermediate*

Professional Experience and Selected Projects

HarperCollins Publishers - Data Scientist — London, United Kingdom
Global Pricing and Analytics *September '16 - Current*
Research & Development position. Modeling of book sales and customer purchases through network analysis. Graph mining and pattern recognition for recommending items to promote to maximize the generated volume or profit on the whole catalogue. Applying research from social network analysis (*e.g.* community detection). Developing methods for propagating volumes in the network. Inferring network structure from book meta-data.

Imperial College - Master's Thesis — London, United Kingdom
Robust Low-Rank Modeling on Tensors: New Algorithms and Extensive Comparisons *April '16 - September '16*
Developed 4 novel algorithms for robust low-rank modeling on tensors by convex optimization (ADMM). Wrote literature review of over 20 current models. Experimental comparison with 11 competing state of the art models show better or comparable performance on 5 computer vision benchmarks. Recast models as structured robust sparse dictionary learning. Proposed extension based on sparse Bayesian learning, and Variational Inference.

Paper submitted to CVPR 2017. Paper in preparation for IEEE TPAMI.
Supervisor: Dr Stefanos Zafeiriou.

Morgan Stanley - Software Engineer Summer Analyst — London, United Kingdom
Software Engineering - Tech & Data department *June '15 - September '15*
In charge of designing and testing a prototype for a trade control system. Devised a client - server architecture; full-stack development. Worked with legacy code. Presented the solution at the global meeting of the sub-department. Wrote extensive documentation and report.
Project continued for integration into the production environment.

CEA Grenoble & Ensimag - Specialism project — Grenoble, France
Prediction of the nature of missing values in quantitative proteomics *June '15*
Unsupervised learning algorithms (R implementation) for automatic categorization of missing values in protein samples analysis results. Team: one statistician from the French Alternative Energies and Atomic Energy Commission (CEA) and two other students.

TIMC-IMAG & Ensimag - Undergraduate Research — Grenoble, France
Probabilistic inference and modeling of over-diagnosis *January '15 - May '15*
Joint laboratory with the University of Grenoble's Faculty of Medicine. Bayesian Modeling of over-diagnosis in a population of patients, hybrid MCMC-EM algorithms for inference (R implementation). Presented results to jury.

Interests

Cooking, Theatre, Cycling • Elected Student Representative, *Ensimag's Education and Student Life Committee.*

References available upon request.