

Mathurin MASSIAS

Machine Learning PhD at Inria

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SKILLS

MATHEMATICS : Optimisation, Deep Learning
COMPUTER SCIENCE : Python (excellent), R (good), Matlab (good)
Git (Github : <http://github.com/mathurinm>)
StackOverflow : <https://stackoverflow.com/users/2902280/p-camilleri>
LANGUAGES : English (fluent, 5 months stay in India in 2013), Spanish (basics)

PROFESSIONAL EXPERIENCE

SEPT. 2016 - SEPT. 2019 (3 YEARS)	TÉLÉCOM PARISTECH & INRIA (Paris) : PhD student, supervised by A. Gramfort and J. Salmon High dimensional sparse regression, with coloured heteroscedastic noise Machine Learning : Convex and non-convex optimisation, Sparsity, High dimension Technical framework : Python (Cython, numpy, sklearn) Publications : [1, 2, 3, 4, 5]
JUNE 2015 - JUNE 2016 (1 YEAR)	CARDIOLOGS (Paris) : Data scientist Design and implementation of automatic heart disease screening algorithms. Supervised learning on a dataset of 300,000 ECGs. Machine Learning : Convolutional neural networks, Recurrent neural networks Technical framework : Python (numpy), Tensorflow, Caffe, Theano/nolearn/lasagne
OCT. 2014 - MAR. 2015 (6 MONTHS)	DREEM-DEVICES (Paris) : Data scientist Classification and dimensionality reduction on EEG signals. Machine Learning : Signal processing, Clustering (K-Means, Meanshift, GMM, HMM) Technical framework : Python (numpy, sklearn)
MAR. 2014 - AUG. 2014 (6 MONTHS)	CRITEO (Paris) : Data scientist (intern) Implementation of an automated fraud detection tool (outlier detection). Machine Learning : Hierarchical clustering, anomaly detection Technical framework : Python, C#, Hadoop, Hive, Vertica

EDUCATION

SEPT. 2014 - APR. 2015	ENS Cachan : MSc in Mathematics, Computer Vision, Machine Learning (MVA) Summa cum laude (average grade : 16.8/20)
SEPT. 2011 - APR. 2015	Ecole Centrale Paris : Engineering degree Major in Applied Mathematics and Data Science Average grade : 16.3/20
JAN. 2013 - MAY 2013	Indian Institute of Science (Bengalore, Inde) : Exchange semester Pure mathematics Department

INTERESTS

Modern history, Antic history (latin language)
Photography

PUBLICATIONS

- [1] **M. Massias**, A. Gramfort, and J. Salmon. Dual extrapolation for faster Lasso solvers. *CoRR*, 2018.
- [2] **M. Massias**, O. Fercoq, A. Gramfort, and J. Salmon. Heteroscedastic multitask concomitant lasso for sparse multimodal regression. In *AISTATS*, 2018.
- [3] **M. Massias**, J. Salmon, and A. Gramfort. Gap safe screening rules for faster complex-valued multi-task group lasso. *SPARS*, 2017.
- [4] **M. Massias**, , A. Gramfort, and J. Salmon. Résolution rapide de problèmes de type lasso : des règles de safe screening aux working sets. *GRETSI*, 2017.
- [5] **M. Massias**, A. Gramfort, and J. Salmon. From safe screening rules to working sets for faster lasso-type solvers. *CoRR*, abs/1703.07285, 2017.