# Marina Vinyes

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## Experience

## 2018–present **Software Engineer/Machine Learning**, *Criteo*, France, Recommendation team.

2014–2018 Phd in Machine Learning, Imagine lab, Ecole des Ponts ParisTech, France.
"Machine learning algorithms for large matrix models" under the supervision of Guillaume Obozinski.
2011–2012 Research intern in medical imaging, Philips Healthcare, Suresnes.

Designed and developed an interface for cardiologists with C# to compare MRI images and echocardiographies of heart failure patients. Included automatic registration and segmentation of the MRIs.

### Education

- 2012–2013 Msc in Computer Vision and Machine Learning (MVA), ENS Cachan, France, GPA 3.9/4.0.
- 2009–2011 Engineering degree in Mathematics and Computer Science, Ecole des Ponts ParisTech, France.

# Projects and teaching

- 2015–2016 **Teaching Introductory course of C++ programming**, *Ecole des Ponts ParisTech*, France.
- April 2014 **Google Paris Hash Code 2014**, *Paris*, France. One day team programming competition. The task was, given a map of Paris and limited time, choose a route for 8 cars which allows you to cover as many streets as possible.
  - 2013 **Master thesis on large scale online collaborative filtering**, *Paris*, France. New online algorithm for making automatic predictions about the interests of a user by collecting preferences or taste information from many users (recommender systems problem).

## Publications

M. Vinyes, G. Obozinski. **Fast column generation for atomic norm regularization**, Proceedings of the 20th Conference on Artificial Intelligence and Statistics, 2017.

M. Vinyes, G. Obozinski.**Column generation for atomic norm regularization**, NIPS workshop Learning in High Dimension with Structure, 2016.

## Programming experience and skills

- Computer Advanced knowledge in Matlab, C++. Competent in Python and C# skills
  - Other Machine Learning, Convex Optimization, Sparsity, Strucured Optimization, Large Scale Variable Selection, Matrix Factorisation, Recommender Systems, Collaborative Filtering, Statistical Learning, Probabilistic Graphical Models, Image Processing

### Languages

Fluent in English. Native speaker in French, Spanish and Catalan. Basic knowledge of Chinese.