

Armand Joulin

<http://ai.stanford.edu/~ajoulin/>
ajoulin@cs.stanford.edu
born 11/05/1984

Education

2010–2012 **Ecole Normale Supérieure, INRIA Willow project-team**, PhD program in Machine learning and computer vision.

Advisors *Francis Bach / Jean Ponce*

Thesis title Convex optimization for cosegmentation.

2009 **Ecole Normale Supérieure de Cachan, Paris**, M. Sc., Computer vision and machine learning (MVA).

Ranked first.

2008 **ENSAE, Paris**, M. Sc., Statistics.

2004–2007 **Ecole Polytechnique, Palaiseau**, B.Sc. in applied mathematics and economy.

Training in economy, applied mathematics, mathematical analysis and computer science.

Work experience

2013–present **Stanford University, Palo Alto**, Postdoctoral researcher.
Working with Daphne Koller and Fei-Fei Li.

Summer 2012 **Microsoft Research, Redmond**, Summer internship, 3 months.
Working on image processing and image browsing. Host: Sing Bing Kang.

2009–2011 **ENSAE, Paris**, Teaching assistant.
Measure theory, probability and optimization.

2007–2009 **Capital Fund Management, Paris**, Quantitative researcher.
Part-time researcher on high frequency trading under the supervision of Jean-Philippe Bouchaud.

Publications

O. Duchenne, A. Joulin, and J. Ponce. A graph-matching kernel for object categorization. In *Proceedings of the International Conference in Computer Vision (ICCV)*, 2011.

T.D. Hocking, A. Joulin, F. Bach, and J.P. Vert. Clusterpath an algorithm for clustering using convex fusion penalties. In *The International Conference on Machine Learning (ICML)*, 2011.

A. Joulin and F. Bach. A convex relaxation for weakly supervised classifiers. In *Proceedings of the International Conference on Machine Learning (ICML)*, 2012.

A. Joulin, F. Bach, and J. Ponce. Discriminative clustering for image co-segmentation. In *Proceedings of the Conference on Computer Vision and Pattern Recognition (CVPR)*, 2010.

- A. Joulin, F. Bach, and J. Ponce. Efficient optimization for discriminative latent class models. In *Advances in Neural Information Processing Systems (NIPS)*, 2010.
- A. Joulin, F. Bach, and J. Ponce. Multi-class cosegmentation. In *Proceedings of the Conference on Computer Vision and Pattern Recognition (CVPR)*, 2012.
- A. Joulin and S. B. Kang. Recovering stereo pairs from anaglyphs. In *Proceedings of the Conference on Computer Vision and Pattern Recognition (CVPR)*, 2013.
- A. Joulin, A. Lefevre, D. Grunberg, and J.-P. Bouchaud. Stock price jumps: news and volume play a minor role. *arXiv preprint arXiv:0803.1769*, 2008.
- M. Rubinstein, A. Joulin, J. Kopf, and C. Liu. Unsupervised joint object discovery and segmentation in internet images. In *Proceedings of the Conference on Computer Vision and Pattern Recognition (CVPR)*, 2013.

Other research activities

- Reviewing Transactions on Pattern Analysis and Machine Intelligence
 IEEE Transactions on Multimedia
 IEEE Transactions on Image Processing
 International Conference on Machine Learning
 Neural Information Processing Systems
 European Conference on Computer Vision
 Conference on Computer Vision and Pattern Recognition
 International Conference on Computer Vision
 International Conference on Artificial Intelligence and Statistics

Other work experience

- Summer 2006** **Poulet Bicyclette, Le Mans (France)**, Cook.
 Work as a cook for a catering company specialized in concerts and festival.
- 2006** **Une Grande Ecole Pourquoi Pas Moi, Palaiseau (France)**, Teacher.
 Teacher for the non-profit organization which helps students from lower income neighborhoods to get into top-ranked French university.
- 2005** **French Airborne Forces, Taverny (France)**, Commando.
 Military service as a *fusilier-commando*.

Programming languages

- Matlab (Expert)
 C/C++ (Advanced)
 Javascript (intermediate)
 Some knowledge of php, sql, python and java