Melanie Ducoffe
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Language

- French (native)
- English(fluently, TOEIC: 930/990)
- Italian and Japanese : notions

Development

- Java (+++)
- Python (+++)
- Theano (+++)
- C++ (+)
- C# (+)
- Matlab (++)
- ...

Melanie Ducoffe

First year PHD student

About me I am a former French ENS Student who is passionate about artificial intelligence especially deep learning research area. I spent 5 months under the supervision of Yoshua Bengio and I have started a PHD about deep learning in I3S laboratory under the supervision of Frederic Precioso.

Experience

September 2015 - Today
Phd : Deep learning in the light of active learning & multimedia data classification
supervisor : Frederic Precioso
location : I3S laboratory, Sophia Antipolis, France
December 2015 : NIPS attendee
August 2015 : CIFAR Summer school attendee
February 2015 - June 2015
internship :

- ☐ Semi supervised learning using bijectif deep generative models
- ☐ Distributed training using batchwise dropout

supervisor : Yoshua Bengio
location : University of Montreal, Quebec, Canada
September 2014 - February 2015
internship : query by committtee for deep learning
supervisor : Frederic Precioso
location : I3S laboratory, Sophia Antipolis, France
February 2014 - June 2014

internship : 3D rotation invariant matching pursuit for gesture recognition
supervisor : Remi Gribonval, Anatole Lecuyer
location : INRIA, Rennes, France

Education

2013 - 2015
Research Master in Computer Science (option : Machine learning) at ENS Rennes, France

2011 - 2014
Computer science engineer degree (option : Machine Learning) at Ecole Polytech, Nice Sophia, France

2009 - 2011
Preparatory classes (maths, physics) at Lycée Masséna, Nice, France

Publications

- Active learning for Deep architecture :
  QBDC: Query by dropout committee for training deep supervised architecture
  (http://arxiv.org/abs/1511.06412)
- A linguistic analysis of Deep Learning architectures :
  Machine Learning under the light of Phraseology expertise: use case of presidential speeches, De Gaulle- Hollande (1958-2016)
  submitted to JADT 2016

Ongoing Collaborations :

- Plankton detection using deep learning on an embedded platform
- Biologically inspired deep architectures
- Laryngal EMG recognition using deep learning