

# Paul GAY

Machine learning engineer

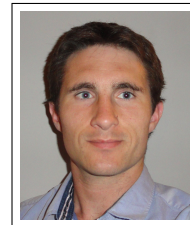
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<https://paulgay.github.io/>

Born in France, 1988



## Education

- 2014 **Phd thesis**, *Audiovisual person indexing in broadcast news..*  
**Context:** news content understanding projects EUMSSI and QUAERO. **Technical topics:** conditional random fields, face and speaker identification and clustering
- 2011 **Master degree: Multimedia Information Processing System (STIM)**, *university of Rouen, France.*
- 2011 **Master degree of electrical engineering: Information System Architectures (ASI)**, *Institut National des Sciences Appliquées (INSA), Rouen, France.*

## Experiences

### Professional

- 2016-2018 **Post-Doc**, *VGM-IIT, Genova, Italy.*  
Combinations of Probabilistic models and deep learning techniques. Applications: relationship detection, 3D reconstruction. In Python, Tensorflow, Matlab.  
Foundation of a start-up: presentation to investors, business plan...
- 2014-2015 **Teaching assistant (ATER)**, *LIA, Avignon, France.*  
Teaching activity: various classes in computer sciences (programming, distributed architectures...).  
Research activity: video series summarization. In C++.
- 2014 **Phd achievement**, *LIUM, Le Mans, France*, During REPERE research competition.  
Development of a video processing system with ASR, Named entity extraction, and person naming.  
Used to process a 300 hours video collection.  
Our system was ranked 1st in speaker identification.
- 01/2013-06/2013 **Research assistant**, *LIUM, Le Mans, France.*  
Maintenance of speech processing tools: documentation writing and technical assistance. In Java
- 02/2011-08/2011 **Research intern**, *Laboratoire Télécom Bretagne, Lima, Peru.*  
Acoustic Image classification: Application to anchovy schools. In Matlab.

## Skills

- Programming: Python, Java, C/C++, Matlab. Web: Php, J2EE, SOA.
- Research fields: face and speaker identification, Probabilistic models, Computer vision.

## Langues

French (mother tongue), english, spanish, italian. Proficient level, except with italian writing.

## Miscellaneous activities

HandBall, Alpinisme, Water color painting.

## Selected Publications

Google scholar profile:

<https://scholar.google.fr/citations?user=TwBT4HEAAAAJ&hl>

Visual Graphs from Motion (VGfM): Scene understanding with object geometry reasoning. Asian Conference on Computer Vision (ACCV). Paul Gay, Stuart James, Alessio Del Bue. 2018

A conditional random field approach for audio-visual people diarization. International Conference on Acoustics, Speech, and Signal Processing (ICASSP). Paul Gay, Elie Khoury, Sylvain Meignier, Jean-Marc Odobez, and Paul Deléglise. 2014

An Open-source State-of-the-art Toolbox for Broadcast News Diarization. International Speech Communication Association (INTERSPEECH). Mickaël Rouvier, Grégor Dupuy, Paul Gay, Elie Khoury, Teva Merlin and Sylvain Meignier. 2013