

Paul GAY

Machine learning researcher

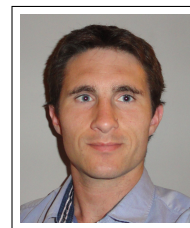
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<https://paulgay.github.io/>

Born in France, 1988



Education

- 2014 **Phd thesis**, *Audiovisual person indexing in broadcast news*, Advisors: Sylvain Meignier: Lium, Le mans, France, and Jean-Marc Odobez, IDIAP, Martigny, Switzerland.
Context: news content understanding projects EUMSSI and REPERE campaign.
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*, Genoa, Italy.
-Combination of Graphical models and deep learning techniques. In Python, Tensorflow, Matlab.
-Relationship detection, 3D reconstruction.
-Foundation of a start-up: Relations with 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*, REPERE competition.
-Development of a video processing system with ASR, named entity extraction, and person naming.
-Processing a 300 hours video collection. 1st rank in speaker identification
- 01/2013- **Research assistant**, *LIUM*, Le Mans, France.
06/2013 Maintenance of speech processing tools: documentation writing and technical assistance. In Java.

Research Fields

- Machine learning: Graphical models, Graph neural networks, Matrix factorization.
- Applications: Speaker and face identification, Multimedia indexing, Visual understanding, 3D geometry.

Programming skills

- Tools: Tensorflow, Caffe, OpenCV, Linux, Eclipse, Git.
- Languages: Python, Java, C/C++, Matlab. Web: J2EE, SOA, Html, Django, Php.

Personal Skills

- Languages: French (mother tongue), English, Spanish, Italian. Proficient level.
- Other interests: HandBall, mountaineering, painting, singer.

Selected Publications

These publications illustrate my phd work on audiovisual person indexing and then later on visual scene understanding during my post-doc.

- ACCV 2018 **Visual Graphs from Motion (VGfM): Scene understanding with object geometry reasoning**, *Paul Gay, Stuart James, Alessio Del Bue.*, IEEE Asian conference in computer vision.
- ICCV 2017 **Probabilistic Structure from Motion with Objects**, *Paul Gay, Vaibhav Bansal, Cosimo Rubino, Alessio Del Bue.*, IEEE International Conference on Computer Vision.
- ICASSP 2014 **A conditional random field approach for audio-visual people diarization**, *Paul Gay, Elie Khoury, Sylvain Meignier, Jean-Marc Odobez.*, IEEE International Conference on Acoustics, Speech, and Signal Processing.
- ICMR 2013 **Fusing matching and biometric similarity measures for face diarization in video**, *Elie Khoury, Paul Gay and Jean-Marc Odobez*, ACM International Conference on Multimedia Retrieval.
- INTERSPEECH 2013 **An Open-source State-of-the-art Toolbox for Broadcast News Diarization**, *Mickaël Rouvier, Grégor Dupuy, Paul Gay, Elie Khoury, Teva Merlin and Sylvain Meignier*, International Speech Communication Association.

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