

Adrien Gaidon

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Education

- 2008 - 2012 **PhD in Computer Science**, *Microsoft Research - INRIA, Paris & LEAR Team, INRIA Grenoble*, under the supervision of Cordelia Schmid, in the fields of Computer Vision and Machine Learning.
Title: *Structured Models for Action Recognition in Real-world Videos*
- 2007 - 2008 **MSc in Artificial Intelligence**, *Université Joseph Fourier, Grenoble, France*.
- 2005 - 2008 **Engineer Diploma in Computer Science and Applied Mathematics**, *ENSIMAG (Ecole Nationale Supérieure d'Informatique et de Mathématiques Appliquées de Grenoble)*, Grenoble, France.
- 2003 - 2005 **"Classes Préparatoires MPSI et MP*"**, *preparation courses (Mathematics and Physics) for the French "Grandes Écoles"*, Clermont-Ferrand, France.
- 2003 **European Scientific Baccalaureate with distinction**, *equivalent to "A" levels*.

Professional Experience

- 2008 - 2012 **PhD candidate at Microsoft Research - INRIA and at INRIA Grenoble, France**.
Research on models and algorithms for the automatic detection and recognition of a wide range of visual events in real-world videos. Expertise in state-of-the-art computer vision (local image and video features, object and action recognition methods, tracking, multimedia document modeling, signal processing), and machine learning (kernel methods, outlier detection, non-linear optimization, time series analysis). Implementation in Python, C, and C++ of video annotation, recognition, and retrieval systems.
- Jul. - Sep. 2008 **R&D engineer at INRIA Grenoble**, *participation to TRECVID and PASCAL VOC*.
Implementation in Python, C, and C++ of state-of-the-art event and object classification and detection algorithms for two international computer vision competitions. Experimentation on tens of thousands of images and videos, using a cluster of computers, under strong time constraints.
- Feb. - Jun. 2008 **Research intern at INRIA Grenoble**.
Research and C/C++ programming of machine learning techniques for action recognition in natural scene videos with different levels and quality of supervision.
- Jun. - Aug. 2007 **Research intern at INRIA Rocquencourt, Paris, France**.
Research on structure learning of Bayesian networks using independence models and genetic algorithms. Prototyping of algorithms in Matlab.
- Jun. - Aug. 2006 **Research intern at LIG research lab, IMAG institute, Grenoble, France**.
Bibliographic study on formal methods in the automatic proof research domain. Implementation of unification algorithms in OCaml.
- Jun. 2006 **Interpreter at a French-German seminar on child welfare**, Grenoble, France.

Communication Skills

With Humans

- French **Native**
- English **Fluent** *TOEFL: 110/120, lived in Louisville, Kentucky, USA, 1987 - 1989*
- German **Fluent** *lived in Saarbrücken, Saarland, Germany, 1999 - 2002*

With Computers

- Languages mostly Python (proficient), Cython, C, C++, bash, L^AT_EX
- Others Linux, parallel programming, elements of web programming (HTML5, Javascript, Django)

Awards

- 2008 - 2012 Microsoft Research - INRIA PhD scholarship
- 2008 Co-winner of the PASCAL VOC 2008 challenge on object classification and detection

Scientific Activities

Publications in peer-reviewed international conferences

Recognizing Activities with Cluster-trees of Tracklets,

A. Gaidon, Z. Harchaoui, C. Schmid, BMVC 2012

A time series kernel for action recognition,

A. Gaidon, Z. Harchaoui, C. Schmid, BMVC 2011

Actom sequence models for efficient action detection,

A. Gaidon, Z. Harchaoui, C. Schmid, CVPR 2011

Mining visual actions from movies,

A. Gaidon, M. Marszalek, C. Schmid, BMVC 2009 (oral, 9% acceptance ratio)

Journal submissions

Action Detection with Actom Sequence Models,

A. Gaidon, Z. Harchaoui, C. Schmid, submitted to PAMI, 2012

Other publications

Action detection with Actom Sequence Models,

A. Gaidon, Z. Harchaoui, C. Schmid, INRIA Tech. Report, submitted to PAMI, 2012

Classification aided two stage localization,

H. Harzallah, C. Schmid, F. Jurie, A. Gaidon, PASCAL VOC Challenge Workshop, ECCV 2008

INRIA-LEAR's video copy detection system,

M. Douze, A. Gaidon, H. Jégou, M. Marszalek, C. Schmid, TRECVID Workshop 2008

Invited talks and demos

- 2012 Invited talk at the MSR - INRIA CVML workshop, Microsoft Research, Cambridge, UK
- Invited talk at ETH Zürich, Switzerland
- Invited talk at the Xerox Research Center Europe (XRCE), Meylan, France
- 2011 Invited talk at the GdR ISIS, CNRS, Paris
- Invited talk at the Computer Vision Center, Autonomous University of Barcelona, Spain
- Technical demo at the Microsoft Research - INRIA forum, Paris, France
- 2010 Invited talk at the Visual Geometry Group, University of Oxford, UK
- Invited talk at the Microsoft Research - INRIA vision workshop, Paris, France

Miscellaneous

- Seminars Presentations at seminars and reading groups on advances in computer vision, machine learning, and non-linear optimization.
- Teaching Introduction to computer science for high-school students (short two days course), Tutoring of Master students.
- Scientific community Reviewer for the major computer vision conferences and journals, Annotator for the PASCAL VOC Challenge.
- Open Source Contributor to several Open Source Python projects.
- Hobbies Snow-board, Guitar, Volley-Ball (player and referee), Movies, Travelling.