

## Personal details:

Date of birth: 09 February 1979  
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## Education:

**1998-2004**      **POLITECNICO DI TORINO, Torino, ITALY**  
Engineering Program in Telecommunications Systems (equivalent to Master of Science)

**2002-2003**      **ECOLE SUPERIEURE EN SCIENCES INFORMATIQUES, Sophia Antipolis, FRANCE**  
DEA SIC program in Multimedia: Image & Vision (equivalent to Master of Science)

**INSTITUT EURECOM, Sophia Antipolis, FRANCE**  
Engineering Program in Advanced Telecommunication Systems

## Research experience:

**2004-now**      **DOCTORAL THESIS, Institut Eurécom (CNRS), FRANCE**  
Video analysis of facial behaviour and dynamics: a 3 year thesis with Professor Jean-Luc Dugelay.

**2003**      **RESEARCH INTERNSHIP, Laboratoire I3S (CNRS & University of Nice), FRANCE**  
2D wavelet compression methods for image and video coding: a 6 months internship in the Creative group.  
*Development of a new experimental allocation algorithm that presents better compression performances than standard JPEG2000. Theoretical analysis, practical implementation and testing.*

**2002**      **RESEARCH PROJECT, Institut Eurécom (CNRS), FRANCE**  
Intra AS & inter AS delay statistics over the internet: a 4 months project with Professor Keith Ross.  
*A traceroute based measurements for comparing intra and inter Autonomous System delays with AS lookups for finding AS numbers from IP addresses. Comprehensive statistical analysis of the results.*

## Publications:

**2005**      **Federico MATTA, Jean-Luc DUGELAY: Towards Person Recognition Using Head Dynamics**  
Conference paper: ISPA 2005, Zagreb.  
*Abstract. This paper describes a new approach for identity recognition using video sequences. While most image and video recognition systems discriminate identities using pixel-based information, our approach exploits the head dynamics; in particular the displacement signals of few head features. Due to the lack of standard video database, identification and verification scores have been obtained using a small collection of video sequences: the results for this preliminary approach are nevertheless encouraging.*

## Desired project(s) to work on:

- **Main project:** 5, biometric identification / verification
- **Other attractive projects:** 2, caricatural mirror

## Skills that I can bring:

- Experience on **person recognition** (identification & verification) **systems**
- Experience on **video facial analysis**, in particular head tracking
- Global knowledge on **image and video** domains
- Experience in **C/C++** programming
- Experience in **Matlab** programming