

# Cristian Canton-Ferrer

@ Technical University of Catalonia - UPC



## Work Address

Campus Nord UPC  
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## Personal Facts

**Date of birth:** 11-Feb-1980  
**Place of birth:** Terrassa (Barcelona)  
**Nationality:** Spanish

**Marital state:** Single  
**Age:** 27

## Education

- 2003 - Present **PhD Thesis – “Human Analysis with Scalable Body Models”**  
At Technical University of Catalonia, currently at the 4<sup>th</sup> year of the PhD program
- 2003 **Ms Thesis – “Sparse Image Coding with Matching Pursuit”**  
At the Signal Processing Laboratory Swiss at the Swiss Federal Institute of Technology (EPFL), Lausanne, Switzerland
- 1998 - 2003 **BS & MS in Telecommunication Engineering**  
At the Technical University of Catalonia

## Languages

- English Fluently spoken, read and written
- Italian Fluently spoken, read and written
- Spanish Mother tongue
- Catalan Mother tongue
- French Basic level

## Work Experience

- 11/2003 – Present **Technical University of Catalonia, Barcelona (Spain)**  
Technical support to the NoE’s [SIMILAR](#) and [MUSCLE](#) and the IT [CHIL](#) founded by the EU and the HESPERIA project founded by the Spanish government in the fields of:
  - Multicamera and multimodal signal processing
  - Articulated human body analysis
  - 3D data analysis
  - Gesture analysis
- 02-04/2005 **SIMILAR Graduate Twinning Program, Koç University, Istanbul (Turkey)**  
Visiting researcher. Studied topics related to multicamera data analysis and articulated human body analysis under the supervision of Prof. A. Murat Tekalp.
- 09/2002 **European Space Agency, Novespace, Bordeaux (France)**  
Participation in the 5<sup>th</sup> ESA Student Parabolic Flight Campaign with the experiment entitled “*Capillarity phenomena under weightlessness conditions*”.
- 06-08/2002 **Silesian University of Technology, Gliwice (Poland)**  
Research trainee under the IAESTE sponsorship. Work on the development and testing of iris detection algorithms for security applications.
- 06-08/2001 **Silesian University of Technology, Gliwice (Poland)**  
Research trainee under the IAESTE sponsorship. Work on the application of anisotropic diffusion techniques for medical image denoising.

## Computer Skills

- Programming languages: C/C++, Matlab
- Programming libraries: GSL, OpenCV
- Operating systems: Unix/Linux, Windows XP

## Selected Publications

(click [here](#) for a complete list of publications)

- C. Canton-Ferrer, C. Segura, J. R. Casas, M. Pardàs, J. Hernando. **Audiovisual Head Orientation Estimation in Multisensor Scenarios**. Accepted for publication in the EURASIP Journal on Advances in Signal Processing, to be published on November 2007.
- A. López, C. Canton-Ferrer, J. R. Casas. **Multi-Person 3D Tracking with Particle Filters on Voxels**. IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Honolulu (USA), April 16-20, 2007.
- A. López, C. Canton-Ferrer, J. R. Casas. **Multi-Person 3D Tracking with Particle Filters on Voxels**. IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Honolulu (USA), April 16-20, 2007.
- C. Canton-Ferrer, J. R. Casas, M. Pardàs. **Human Model and Motion Based 3D Action Recognition in Multiple View Scenarios**. European Signal Processing Conference (EUSIPCO). Firenze (Italy), September 4-8, 2006.
- C. Canton-Ferrer, J. R. Casas, M. Pardàs. **Fusion of Multiple Viewpoint Information Towards 3D Face Robust Orientation Detection**. IEEE International Conference on Image Processing (ICIP), Genoa (Italy), September 11-14 2005.
- C. Canton-Ferrer, J.R. Casas, A.M. Tekalp, M. Pardàs. **Projective Kalman Filter: Multiocular Tracking of 3D Locations Towards Scene Understanding**. 2nd Joint Workshop on Multimodal Interaction and Related Machine Learning Algorithms (MLMI), Edinburgh (UK), July 11-13, 2005. Published in Lecture Notes on Computer Science, vol.3869, pp. 250-261, Springer-Verlag.
- C. Canton-Ferrer, J.R. Casas, M. Pardàs. **Towards a Bayesian Approach to Robust Finding Correspondences in Multiple View Geometry Environments**. Workshop on Computer Graphics and Geometric Modelling (CGGM) in conjunction with ICCS'05, Emory University, Atlanta (USA), May 22-25 2005. Published in Lecture Notes on Computer Science, vol. 3515, pp. 281-289, Springer-Verlag.