

# Lorenzo Baraldi

## Curriculum Vitae

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### Education

- 2014–on going **PhD Student**, *University of Modena and Reggio Emilia, Italy*.  
Supervisor: Prof. Rita Cucchiara
- 2012–2014 **Master Degree in Computer Engineering**, *University of Modena and Reggio Emilia, Italy*.  
Mark: 110/110 cum laude  
Thesis title: “Hand Segmentation and Gesture Recognition in Ego-centric Videos”  
Supervisors: Prof. Rita Cucchiara, Dr. Giuseppe Serra  
Abstract: The thesis explores and proposes state-of-the-art computer vision and pattern recognition techniques for hand segmentation and gesture recognition in egocentric vision. The proposed algorithms are tested on prototype wearable sensors.
- 2008–2011 **Bachelor Degree in Computer Engineering**, *University of Modena and Reggio Emilia, Italy*.  
Mark: 110/110 cum laude  
Thesis title: “Dimensionality reduction techniques for Web datasets: PCA vs SVD”  
Supervisor: Dr. Riccardo Lancellotti
- 2003–2008 **Scientific High School Diploma**, *Scientific High School “A. Tassoni”, Modena, Italy*.  
Mark: 100/100 cum laude

### Languages

- Italian **Mother tongue**  
English **Council of Europe Level B2 – Cambridge ESOL Certificate**  
French **Basic**

### Computer skills

- Programming languages C, C++, Matlab, Python, Java, Javascript, CUDA  
Databases SQL  
Libraries OpenCV, Caffe, Torch7

## Publications

- Title Scene segmentation using Temporal Clustering for Accessing and Re-using Broadcast Video  
Authors L. Baraldi, C. Grana, R. Cucchiara  
ICME 2015
- Title Measuring Scene Detection Performance  
Authors L. Baraldi, C. Grana, R. Cucchiara  
IbPRIA 2015
- Title Gesture Recognition using Wearable Vision Sensors to Enhance Visitors' Museum Experiences  
Authors L. Baraldi, F. Paci, G. Serra, L. Benini, R. Cucchiara  
IEEE Sensors Journal
- Title Analysis and Re-use of Videos in Educational Digital Libraries with Automatic Scene Detection  
Authors L. Baraldi, C. Grana, R. Cucchiara  
In Proceedings of the 11th Italian Research Conference on Digital Libraries, 2015
- Title Gesture Recognition in Ego-Centric Videos using Dense Trajectories and Hand Segmentation  
Authors L. Baraldi, F. Paci, G. Serra, L. Benini, R. Cucchiara  
In IEEE Computer Vision and Pattern Recognition (CVPR) Embedded Vision Workshop (EVW), 2014
- Title Hand Segmentation and Gesture Recognition in EGO-Vision  
Authors G. Serra, M. Camurri, L. Baraldi, M. Benedetti, R. Cucchiara  
In Proc. of ACM Multimedia International Workshop on Interactive Multimedia on Mobile and Portable Devices (IMMPD), 2013

## Others

### Seminars, courses and events attended

- "Analyzing human activities in video" – Prof. Larry Davis, 2012  
"Second Short Spring School on Surveillance" – S5, 2014  
"Egocentric Recognition of Objects and Activities" – Prof. James M. Rehg, 2014  
"Active Contours in Image Processing and Computer Vision" – Prof. Anthony Yezzi, 2014  
"Introduction to Machine Learning and Online Learning" – Prof. Roberto Paredes, 2014

Italian Research Conference on Digital Libraries - IRCDL, Bolzano 2015

Journals Reviewing

Multimedia Tools and Applications (Springer)

## Interests

- Computer Vision
- Image Processing
- Pattern Recognition and Machine Learning
- Deep Learning
- Artificial Intelligence