

# Lorenzo Baraldi

## Curriculum Vitae

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### Education

- 2014–current **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*.  
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

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## Publications

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

Currently under review

Title Gesture Recognition using Wearable Vision Sensors to Enhance Visitors' Museum Experiences  
Authors L. Baraldi, F. Paci, G. Serra, L. Benini, R. Cucchiara  
Accepted with mandatory corrections in IEEE Sensors Journal

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## 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

Journals Reviewing

Multimedia Tools and Applications (Springer)

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## Interests

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