

# Europass Curriculum Vitae

## Personal information

Surname(s) / First name(s)

Email(s)

Nationality(-ies)

Date of birth

Gender

Webpage

Desired employment/  
Occupational field

**Fossati, Andrea**

fossati@vision.ee.ethz.ch

Italian

May, 12<sup>th</sup> 1981

Male

<http://www.vision.ee.ethz.ch/~fossatia/>

Research and Development

## Education and training

Date

Position

Principal subjects/Occupational  
skills covered

Name and type of organization  
providing education and training

Supervisor

2010 - now

PostDoc Researcher

Computer Vision

Computer Vision Laboratory, ETH Zurich

Prof. Luc Van Gool

Date

Title of qualification awarded

Principal subjects/Occupational  
skills covered

Name and type of organization  
providing education and training

Supervisor

Teaching Assistant Activity

2005 - 2010

PhD in Computer, Communication and Information Sciences

Computer Vision, 3D Human Body Tracking from Monocular Sequences

CVLab, Ecole Polytechnique Fédérale de Lausanne

Prof. Pascal Fua

Introduction to Computer Science (Master Course, Spring 2007, Spring 2008, Spring 2009), Computer Science 1 (Bachelor Course, Fall 2007)

Date

Title of qualification awarded

Principal subjects/Occupational  
skills covered

Name and type of organization  
providing education and training

Supervisor

July 2008

Visiting PhD Student

Computer Vision, 3D Human Body Tracking from Monocular Sequences

Visual Geometry Group, University of Oxford

Prof. Andrew Zisserman

Date

Title of qualification awarded

Principal subjects/Occupational  
skills covered

Name and type of organization  
providing education and training

Supervisor

July 2007

Visiting PhD Student

Computer Vision, 3D Human Body Tracking from Monocular Sequences

PERCEPTION Group, INRIA Grenoble - Rhone Alpes

Prof. Radu Horaud

Date	2004 - 2006
Title of qualification awarded	Master of Science
Principal subjects/Occupational skills covered	Computer Science
Name and type of organization providing education and training	University of Illinois at Chicago
Thesis Supervisor	Prof. Milos Zefran
Thesis Title	Cooperative and distributed localization in multi-robot systems
GPA	4.0 / 4.0
Courses	Advanced Computer Vision, Computer Graphics I, High Performance Processors and Systems, Distributed Computing Systems, Virtual Reality, Numerical Analysis, Formal Methods in Concurrent and Distributed Systems

Date	2003 - 2005
Title of qualification awarded	Laurea Specialistica (Master of Science Equivalent)
Principal subjects/Occupational skills covered	Computer Engineering
Name and type of organization providing education and training	Politecnico di Milano
Thesis Supervisor	Prof. Vincenzo Caglioti
Thesis Title	Cooperative Localization in Multi-Robot Systems
Final Grade	110 summa cum laude / 110
GPA	29.4 / 30
Courses	DataBases II, Software Engineering II, Operating Systems Design, Formal Languages and Compilers, Artificial Intelligence, Operation Research, Robotics, High Performance Processors and Systems, Formal Methods in Concurrent and Distributed Systems, Distributed Computing Systems, Statistics, Mechanics, Computer Vision, Computer Graphics, Numerical Calculus, Advanced Topics in Image Analysis, Advanced Topics in Image Synthesis, Internet Infrastructures and Protocols, Computer Graphics, Artificial Intelligence and Robotics Lab, Soft Computing, Data Mining

Date	2000 - 2003
Title of qualification awarded	Laurea (Bachelor Equivalent)
Principal subjects/Occupational skills covered	Computer Engineering
Name and type of organization providing education and training	Politecnico di Milano
Thesis Supervisor	Prof. Luca Ferrarini
Thesis Title	Analysis of Profibus fieldbus and evaluation of its wireless applications
Final Grade	110 summa cum laude / 110
GPA	29.5 / 30
Courses	Mathematical Analysis A and Geometry, Mathematical Analysis B, Experimental Physics I, Experimental Physics II, Computer Science I, Computer Science II, Circuit Theory, Fundamentals of Automatic Controls, Fundamentals of Telecommunication Systems, Fundamentals of Electronics, Software Engineering I, Computer Science III, Economics and Business Administration, Ordinary Differential Equations, Chemistry A, Software Engineering Project, Probability Theory, Digital Logic Design A, Business Management, Industrial Automation, Thermodynamics and Heat Transfer, Databases I, Complementary Project Activity in CS Engineering, Model Identification and Data Analysis, Algebra and Mathematical Logic, Industrial Application of Computer Systems, Theoretical Computer Science

Date  
Title of qualification awarded  
Name and type of organization  
providing education and training  
Final Grade

1995 - 2000  
High School Diploma  
Liceo Scientifico Statale Galileo Galilei, Legnano (MI), Italy  
100 / 100

## Personal skills and competences

Mother tongue(s)  
Other language(s)

*Self-assessment  
European level<sup>(\*)</sup>*

**English**  
**French**

Computer skills and competences

## Publications

### Italian

English, French

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
C1	C2	C2	C1	C2
B1	B2	B1	B1	B1

<sup>(\*)</sup> Common European Framework of Reference (CEF) level

Operating systems: Windows, GNU/Linux  
Programming Languages: C, C++, Java  
Graphic Libraries: OpenGL  
Graphic Applications: Blitz3D, 3D Studio Max (basic)  
Development Software: Matlab, JBuilder, MS Visual Studio, Vicon IQ

3D Reconstruction of freely moving persons for re-identification with a depth sensor - M. Munaro, A. Basso, A. Fossati, L. Van Gool and E. Menegatti - IEEE International Conference on Robotics and Automation (ICRA), Hong Kong, 2014  
One-Shot Person Re-identification with a Consumer Depth Camera - M. Munaro, A. Fossati, A. Basso, E. Menegatti, L. Van Gool - Person Re-Identification, pp 161-181, Springer 2014  
Consumer Depth Cameras for Computer Vision - Research Topics and Applications - A. Fossati, J. Gall, H. Grabner, X. Ren, and K. Konolige (Eds.) - Advances in Computer Vision and Pattern Recognition, Springer, 2013  
Exploiting Physical Inconsistencies for 3D Scene Understanding - A. Fossati, H. Grabner and L. Van Gool - International Conference on 3D Imaging, Modeling, Processing, Visualization and Transmission, Zurich, Switzerland, October 2012  
Random Forests for Real Time 3D Face Analysis - G. Fanelli, M. Dantone, J. Gall, A. Fossati and L. Van Gool - International Journal of Computer Vision, Special Issue on Human Computer Interaction, 2012  
Social interaction discovery by statistical analysis of F-formations - M. Cristani, L. Bazzani, G. Paggetti, A. Fossati, D. Tosato, A. Del Bue, G. Menegaz and V. Murino - British Machine Vision Conference, Dundee, UK, September 2011  
Functional Categorization of Objects using Real-time Markerless Motion Capture - J. Gall, A. Fossati and L. Van Gool - IEEE Conference on Computer Vision and Pattern Recognition, Colorado Springs, CO, June 2011  
Real-Time Vehicle Tracking for Driving Assistance - A. Fossati, P. Schönmann and P. Fua - Machine Vision and Applications, Volume 22, Issue 2, 2011  
Large Occlusion Completion using Normal Maps - E. Tola, A. Fossati, C. Strecha and P. Fua - Accepted to Asian Conference on Computer Vision, 2010  
From Canonical Poses to 3-D Motion Capture using a Single Camera - A. Fossati, M. Dimitrijevic, V. Lepetit and P. Fua - IEEE Transactions on Pattern Analysis and Machine Intelligence, July 2010 (vol. 32 no. 7), pp. 1165-1181

Observable Subspaces for 3D Human Motion Recovery - A. Fossati, M. Salzmann and P. Fua - IEEE Conference on Computer Vision and Pattern Recognition, Miami, FL, June 2009

Linking Pose and Motion - A. Fossati and P. Fua - European Conference on Computer Vision, Marseille, France, October 2008

Tracking Articulated Bodies using Generalized Expectation Maximization - A. Fossati, E. Arnaud, R. Horaud and P. Fua - CVPR Workshop on Non-Rigid Shape Analysis and Deformable Image Alignment, Anchorage, AK, USA, June 2008

Bridging the Gap between Detection and Tracking for 3D Monocular Video-Based Motion Capture - A. Fossati, M. Dimitrijevic, V. Lepetit and P. Fua - IEEE Conference on Computer Vision and Pattern Recognition, Minneapolis, MI, June 2007

Cooperative, distributed localization in multi-robot systems: a minimum-entropy approach - V. Caglioti, A. Citterio and A. Fossati - IEEE Workshop on Distributed and Intelligent Systems, Prague, Czech Republic, June 2006

## Reviewing Activity

Reviewer for IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI) since 2006.

Reviewer for IEEE Conference on Computer Vision and Pattern Recognition since 2011.

Reviewer for IEEE International Conference on Computer Vision since 2011.

Reviewer for IEEE European Conference on Computer Vision since 2012.

Reviewer for British Machine Vision Conference since 2011 (Outstanding reviewer award @ BMVC 2012).

## Additional information

### Interesting Facts

Took part to the Italian national final of the Math Olympics (~ 300 students out of all the Italian High Schools) both in 1999 and 2000.

Took part to the Italian national final of the Physics Olympics (~ 80 students out of all the Italian High Schools) in 2000.

Admitted to the Excellence School 'Collegio di Milano' in the semester of its foundation (Spring 2004).

### Hobbies and Interests

Sports: Basketball (currently playing in Phoenix Basket Regensburg), Soccer, Volleyball.

Travels, Music, Photography.