

PERSONAL INFORMATION

Massimiliano Zanoni



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Sex Male | Date of birth 18 September 1976 | Nationality Italian

WORK EXPERIENCE

31/01/2013–Present

postdoctoral research

Politecnico di Milano University
Piazza Leonardo, 32, Milano (Italy)

01/01/2010–31/01/2013

PHD Student within the Image and Sound Processing Group (ISPG)

Politecnico di Milano - Dipartimento di Elettronica e Informazione
Piazza Leonardo da Vinci, 32, 20133 Milano (Italy)

Research activities on Computer Music and Music Information Retrieval (MIR)

Business or sector Research

01/2012–05/2012

PhD Student Visiting

Queen Mary, University of London, London, (United Kingdom)

Research activities on Computer Music and Music Information Retrieval (MIR)

Business or sector Research

03/2010–Present

Teaching assistant

Politecnico di Milano
Piazza Leonardo da Vinci, 32, 20133 Milano (Italy)

Teaching assistant in following courses:

- Computer Music (AY 2013/2014)
- Computer Music (AY 2012/2013)
- Computer Music (AY 2011/2012)
- Computer Music (AY 2010/2011)
- Computer Music (AY 2009/2010)
- Sound Analysis, Synthesis and Processing (AY 2009/2010)
- Multimedia Information Retrieval (AY 2012/2013)
- Multimedia Information Retrieval (AY 2011/2012)
- Multimedia Information Retrieval (AY 2010/2011)

for the Sound Engineering and Design international master degree

Business or sector Teaching

09/2010–Present

Instructor

CPM - Centro Professione Musica
Via Privata Elio Reguzzoni, 15, 20125 Milano (Italy)

Instructor in following courses at CPM (Centro Professione Musica) college:

- Acoustics A.Y. 2014/2015
- Acoustics A.Y. 2013/2014
- Acoustics A.Y. 2012/2013
- Acoustics A.Y. 2011/2012
- Acoustics A.Y. 2010/2011

Business or sector Music school

17/11/2008–31/01/2011

Junior Researcher within the Image and Sound Processing Group (ISPG)

Politecnico Milano
Piazza Leonardo da Vinci, 32, 20133 Milano (Italy)

- Development of an automatic algorithms for quality analysis of X-Ray Images
- Research activities on MIR (Music Information Retrieval)
- Design and management of the "Studio Lab"
- The experimental recording studio of the Polo Regionale di Como - Politecnico di Milano

Business or sector Research

06/2005–11/2008

Sound engineer and audio service manager

Le Dune Recording di Loris Ceroni - Riolo Terme (Ravenna). Alessandro Ristori - Faenza (Ravenna).
Cittadella Internazionale Loppiano (FI). Centre de Rencontre et de Formation - Montet (Broye) -
Switzerland

- Sound engineer for live concerts and recording studios
- Audio live service manager
- Design of resident audio systems for conference halls and concert halls

Business or sector Professional Audio and Music Production

03/2004–04/2005

Junior researcher within the Medical Imaging Group

Università Alma Mater Studiorum di Bologna - Istituto Nazionale di Fisica Nucleare - Dipartimento di
Fisica
Via Zamboni, 33, 40126 Bologna (Italy)

Development of a Computer Aided Detection System (CAD) for Digital Mammography.

Business or sector Research in Medical Imaging

2000–2005

Founder and president of Free Music Association

Free Music Association
Via Cappuccini, 1, 48014 Castel bolognese (Ravenna) (Italy)

Free Music is an association for the organization and management of cultural, and especially musical, events.

Business or sector Music Business

EDUCATION AND TRAINING

01 January 2010–31 January
2013

Doctorate, PhD

Politecnico di Milano University, Milano (Italy)

02/02/2008–03/05/2008

MTELP - Michigan Test of English Language Proficiency

LADO International College, Arlington (VA) (USA)

87/100 - Advanced

English language

10/1995–12/2003

Master of Science in Computer Science

110/110 con Lode

Università degli Studi "Alma Mater Studiorum" di Bologna - School of Science
Via Zamboni, 33, 40126 Bologna (Italy)

Course of Study: Software Engineering

Thesis on "Advanced Algorithm for cancer detection in digital mammography" developed within the Medical Image Group - Dipartimento di Fisica - Università di Bologna

1990–1999

Music Master

via S.Maria dell'Angelo, 24, 48018 Faenza (RAVENNA) (Italy)

Modern Percussion Studies

PERSONAL SKILLS

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C2
French	B1	A2	A1	A1	A1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills

Good attitude in team working developed in music business and in research activities

Job-related skills

Pattern Analysis applied to Image and Audio processing.
Signal Processing.
Software Engineering: Design of object oriented software.
Music Information Retrieval.

Computer skills

- Operative Systems: Windows, Linux/UNIX, MS-DOS, Mac OS
- Programming Languages: Pascal, C, C++, Ocaml, Java, Prolog, Matlab, Processing, Python- Sound Programming Languages: MAX/MSP/Jitter, CSound, SuperCollider- Data Base Designing: Access, MySQL, SQL.

Other skills

Drummer for live concerts and recording activities

Driving licence

B

ADDITIONAL INFORMATION

Publications

Michele Buccoli, Paolo Bestagini, Massimiliano Zanoni, Augusto Sarti, Stefano Tubaro, **Unsupervised feature learning for bootleg detection using deep learning architectures**, IEEE International Workshop on Information Forensics and Security (WIFS), Atlanta, USA, 2014
Massimiliano Zanoni, Francesco Setragno, Augusto Sarti, **"The Violin Ontology"**, in Proceedings of the 9th Conference on Interdisciplinary Musicology CIM14 December 04 06, 2014, Berlin, Germany
Bruno Di Giorgi, Massimiliano Zanoni, Augusto Sarti, **MIREX 2014 Entry: Multipath Beat Tracking** October 27 31, 2014, Taipei, Taiwan

Bruno Di Giorgi, Massimiliano Zanoni, Augusto Sarti, **MIREX 2014 Entry: Tempo Estimation based on Multipath Tempo tracking** October 27-31, 2014, Taipei, Taiwan

Chris Cannam, Matthias Mauch, Matthew EP Davies, Simon Dixon, Christian Landone, Katy Noland, Mark Levy, Massimiliano Zanoni, Dan Stowell, Luis A Figueira, **MIREX 2013 Entry: Vamp Plugins from Center for Digital Music** November 4-8, 2013, Curitiba, Brazil

Michele Buccoli, Massimiliano Zanoni, Augusto Sarti, **A Music Search Engine based of semantic text-query query**, in Proceedings of the 15th international workshop on multimedia signal processing MMSP 2013 September 30-October 02, 2013, Pula (Sardinia), Italy

Paolo Bestagini, Massimiliano Zanoni, Augusto Sarti, Stefano Tubaro, **Feature-based Classification for Audio Bootlegs Detection**, in Proceedings of the IEEE International Workshop on Information Forensics and Security WIFS13 November 18-21, 2013, Guangzhou, China

Bruno di Giorgi, Massimiliano Zanoni, Augusto Sarti, Stefano Tubaro, **Automatic chord recognition based on the probabilistic modeling of diatonic modal harmony**, in Proceedings of the 8th international workshop on multidimensional (nD) systems nDS13 November 9-September 11, 2013, Erlangen, Germany

Mathieu Barthelet, George Fazekas, Massimiliano Zanoni, Panos Kudumakis and Mark Sandler, **Making musical mood metadata**, DMRN+7: Digital Music Research Network One-day Workshop 2012, London, UK, 2012

Massimiliano Zanoni, Daniele Ciminieri, Augusto Sarti, Stefano Tubaro, **Searching for dominant High-level Features for Music Information Retrieval**, in Proceedings of European Signal Processing Conf. (EUSIPCO-2012), Bucharest, Romania, August 2012

Luca Chiarandini, Massimiliano Zanoni, Augusto Sarti, **A System for Dynamic Playlist Generation Driven by Multimodal Control Signals and Descriptors**, 13th international workshop on multimedia signal processing MMSP 2011, October 17-19 2011, Hangzhou, China

Andrio Spich, Massimiliano Zanoni, Augusto Sarti, Stefano Tubaro, **Drum Music Transcription Using Prior Subspace Analysis and Pattern Recognition**, 13th International Conference on Digital Audio Effects (DAFx-10), September 6-10 2010, Graz, Austria

R. Campanini, E. Angelini, E. Iampieri, N. Lanconelli, M. Masotti, M. Roffilli, O. Schiaratura, M. Zanoni, **A fast algorithm for intra-breast segmentation of digital mammograms for CAD systems**, 7th International Workshop on Digital Mammography, June 18-21 2004, Durham, North Carolina, USA

Marco Brambilla, Massimiliano Zanoni, **Clustering and Labeling of multi-dimensional mixed structured data**, Book Chapter, Search Computing: Broadening Web Search, 2012, Springer LNCS vol. 753820122014