

MASSIMILIANO ZANONI

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ARTISTIC EXPERIENCE

Founder, artistic director and interaction designer

O3LAB

📅 2017 - Ongoing 📍 Firenze, Italy

- Responsible for assembling and leading creative teams in the concepting, creation and production of artistic installations and performances
- Design and implement the human-machine interaction experience for artistic projects

Music business Consultant

Self-employed

📅 2016 - 2017 📍

Gen Rosso International Performing Arts Group

- Lead the process of revision of the internal structure of the business to maximise the resources

Concerts and events Production Manager and Show maker

Self-employed

📅 2017 - Ongoing 📍

Main collaborations and events:

Gen Rosso International Performing Arts Group

- Production management of the Musical Streetlight International (Brazil - Portugal) and of the Musical CAMPUS Italy
- Show making and production management of the GR LIFE Italian tour and International tour (Philippines, Cina, Vietnam, Myanmar, Jordan) 2018-2019

Primo Maggio 2018 and Primo Maggio 2019 - Loppiano (FI) From 2000 to 4000 participants with more than 100 people in the organisation.

<https://www.primomaggioloppiano.it>

- Production management and Artistic direction

Live Audio Engineer, Recording Engineer, Technical Director

Self-employed

📅 2005 - 2014

- Technical director Musical "Raggi di Luce" production (2011 - 2014) - More then 100 actors with a great success in major theatres in Lombardia - Italy
- Assistant engineer for recording and mixing activities at the Le Dune Recording di Loris Ceroni - Riolo Terme (Ravenna).
- Recording and mixing engineer
- Live front of house audio engineer for meetings and musical events
- Plans and directs all the technical aspects of the production; assemble and lead technicians teams

LANGUAGES

English ●●●●●

French ●●●●●

EDUCATION

Ph.D. in Information Technology

Politecnico di Milano - Italy

📅 2010 - 2013

Thesis title: Content-based macro-descriptors for music classification and multimedia information retrieval

Ph.D. Student Visiting

Queen Mary, University of London - UK

📅 01/2012 - 05/2012

Research on music emotion recognition in collaboration with BBC RD and I Like Music company

MTELP - Michigan Test of English Language Proficiency

LADO International College, Arlington (VA) (USA)

📅 Feb 2008 - May 2008

Grade: 87/100 - Advanced

M.Sc. in Computer Science

Università degli Studi "Alma Mater Studiorum" di Bologna - Italy

📅 Sept 1995 - Dec 2003

Thesis title: Advanced Algorithm for cancer detection in digital mammography
 Grade: 110/110 Magna cum laude

Modern Percussion Studies

Music Master School in Faenza - Italy

📅 1990 - 1999

RESEARCH

Research activities

Image and Sound Processing Group (ISPG) - Politecnico di Milano University

📅 Postdoctoral researcher - 01/02/2013 – Ongoing

📅 Junior researcher - 17/11/2008 – 31/01/2013

- Leader of the Music Information Retrieval division of the Image and Sound Processing Group
- Activities of research in Music information Retrieval (MIR), Automatic Music Analysis, Machine Learning and Data Analysis
- Activities of research in Information Retrieval and Machine Learning for dance movement analysis in the WholoDance european project (<http://www.wholodance.eu>)
- Activities of research in interactive design for musical performances
- Development of an automatic algorithms for quality analysis of X-Ray Images
- Design and management of the "Studio Lab" - The experimental recording studio of the Polo Regionale di Como - Politecnico di Milano
- Speaker in several international conferences and tutor in several workshops of technology and art

Junior researcher

Medical Imaging Group - Università Alma Mater Studiorum di Bologna - Istituto Nazionale di Fisica Nucleare - Dipartimento di Fisica

📅 03/2004 – 04/2005

- Activities of research of medical image processing

TEACHING

Associate Professor

CPM - Centro Professione Musica

📅 2010 – Ongoing

📍 Milano, Italy

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

- **Acoustics** from A.Y. 2010/2011 to A.Y. 2018/2019

Teaching assistant

Politecnico di Milano

📅 2009 – 2018

📍 Milano, Italy

Teaching assistant for the Sound Engineering and Design international master degree for the following courses:

- **Computer Music** from A.Y. 2009/2010 to A.Y. 2017/2018
- **Sound Analysis, Synthesis and Processing** A.Y. 2009/2010
- **Multimedia Information Retrieval** from A.Y. 2010/2011 to A.Y. 2012/2013

SKILLS

Professional attributes

- Strong conceptual abilities, remarkable art direction skills and good track record of managing complex multi-functional projects in research, show and music business, and artistic projects
- Highly organized with excellent attention to detail
- Ability to priorities and juggle multiple projects within tight deadlines
- Capable of developing and communicating creative concepts, strong verbal and written communication skills.
- Creating effective, informed and highly motivated teams; conflict management skills
- Knowledge in developing and administering resource plans and budgets
- Artist development

Personal attributes

- Continues to learn throughout life, development the competencies needed for current and future roles
- Possessing a responsible attitude, tact, patience, and courtesy
- Ability to operate under pressure and deliver to demanding deadlines
- Good attitude in team working
- Able to act on initiative, identify opportunities and operative in putting forward ideas and solutions

TECH SKILLS

C C++ Java Matlab Python

Machine Learning/Deep Learning

Data Analysis

Music Information Retrieval

MAX/MSP/Jitter

CSound

SuperCollider

OpenFramework

Processing

Ableton Live

Digital Performer

Apple Logic X

Avid Pro Tools

Audio recording and mixing

PUBLICATIONS

Books

- Zanoni, Massimiliano (2015). *The sound of the Stradivari - Chapter in Il Cremonese 1715-2015 - 300 anniversario*. Cremona, Italy.
- Brambilla, M. and M. Zanoni (2012). *Clustering and labeling of multi-dimensional mixed structured data - Chapter in Search Computing Book*. Springer Berlin Heidelberg.

Journal Articles

- Cisneros, R. E. et al. (2019). "Virtual Reality and Choreographic Practice: The Potential for New Creative Methods". In: *Body, Space Technology* 18.1, pp. 1–32.
- Giorgi, B. D., S. Dixon, et al. (2017). "A Data-Driven Model of Tonal Chord Sequence Complexity". In: *IEEE/ACM Transactions on Audio, Speech, and Language Processing* 25.11, pp. 2237–2250.
- Setragno, S. et al. (2017). "Feature-Based Analysis of the Impact of Ground Coat and Varnish on Violin Tone Qualities". In: *Acta Acustica united with Acustica* 103.1, pp. 1–180.
- Giorgi, B. D., M. Zanoni, et al. (2016). "Multipath Beat Tracking". In: *Journal of the Audio Engineering Society* 64.7/8, pp. 493–502.
- Rottondi, C. et al. (2015). "Feature-Based Analysis of the Effects of Packet Delay on Networked Musical Interactions". In: *Journal of the Audio Engineering Society* 63.11, pp. 864–875.

Conference Proceedings

- Cherubin, S. et al. (2019). "Three-Dimensional Mapping of High-Level Music Features for Music Browsing". In: *2019 International Workshop on Multilayer Music Representation and Processing (MMRP)*, pp. 19–26.
- Comanducci, S. et al. (2019). "Investigating Networked Music Performances in Pedagogical Scenarios for the InterMUSIC Project". In: *Proceedings of the 23rd Conference of Open Innovations Association FRUCT*.
- Fiocchi, D. et al. (2018). "Beat Tracking using Recurrent Neural Network: A Transfer Learning Approach". In: *2018 26th European Signal Processing Conference (EUSIPCO)*, pp. 1915–1919.
- Buccoli, M. et al. (2017). "Using multi-dimensional correlation for matching and alignment of MoCap and video signals". In: *2017 IEEE 19th International Workshop on Multimedia Signal Processing (MMSP)*, pp. 1–6.
- Setragno, F. et al. (2017). "Feature-based timbral characterization of historical and modern violins". In: *International Symposium on Musical Acoustics (ISMA)*.
- Zanoni, M., F. Antonacci, and A. Sarti (2017). "Towards Prediction of Violin Timbre from vibrational measurements". In: *International Symposium on Musical Acoustics (ISMA)*.
- Zanoni, M., S. Lusardi, et al. (2017). "Robust music identification approach based on local spectrogram image descriptors". In: *Proceedings of 142th AES Convention*.

As far as publications on conferences is concerned, for the lack of space I reported here only the studies published in the past three years. The full list of publications on conferences can be found in <http://home.deib.polimi.it/zanoni/>

AWARDS

Top 10% Paper Award at the 2017 IEEE 19th International Workshop on Multimedia Signal Processing (MMSP)

INTERESTS

Music Reading Cinema Art

Technology Creativity Nature

Make the world a better place

OTHER EXPERIENCE

- Educator for youth groups within the world wide spread Focolare Movement
- Activities as drummer in live and studio recording for several local bands
- **Founder and president of Free Music Association** (2004 – 2005)
Free Music is an association for the organization and management of cultural, and especially musical, events.

Autorizzo al trattamento dati ai sensi del GDPR 2016/679 del 27 aprile 2016 (Regolamento Europeo relativo alla protezione delle persone fisiche per quanto riguarda il trattamento dei dati personali).
Autorizzo la pubblicazione del Curriculum Vitae sul sito istituzionale del Politecnico di Milano (sez. Amministrazione Trasparente) in ottemperanza al D. Lgs n. 33 del 14 marzo 2013 (e s.m.i.).