

# MASSIMILIANO ZANONI

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## ARTISTIC EXPERIENCE

Co-Founder, CEO, artist developer and show director

### Coesioni

📅 2020 - Ongoing    📍 Firenze, Italy

<https://www.coesioni.it>

Founder, creative 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

Concerts and events Production Manager and Show maker

### Self-employed

📅 2017 - Ongoing    📍

Main collaborations and events:

#### Gen Rosso International Performing Arts Group

- Show direction and Production management for international musical and concert tours

*Primo Maggio ed. 2018, 2019, 2020 - Loppiano (FI)* From 2000 to 4000 participants with more than 100 people in the organisation.

<https://www.primomaggioloppiano.it>

- Production management and Artistic direction

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

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

## 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

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## RESEARCH

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### Research activities

#### Self-employed

📅 01/07/2019 – Ongoing

- Activities of research in Music information Retrieval (MIR), Creative Computing and interaction design for musical performances

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### Research activities

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

📅 Postdoctoral researcher - 01/02/2013 – 01/07/2019

📅 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) 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>)
- Speaker in several international conferences and tutor in several workshops of technology and art

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### Junior researcher

#### Medical Imaging Group - Università Alma Mater Studiorum di Bologna

📅 03/2004 – 04/2005

- Activities of research of medical image processing

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## TEACHING

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### 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. 2019/2021

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### Guest lecturer

#### Politecnico di Milano

📅 2019 – Ongoing

📍 Milano, Italy

Music and Acoustic Engineering international master degree for the following courses:

- *Creative Programming and Computing* A.Y. 2019/2021

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### Teaching assistant

#### Politecnico di Milano

📅 2009 – 2018

📍 Milano, Italy

- *Music Production Technologies* A.Y. 2019/2021
- *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

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## SKILLS

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### 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

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### 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

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## TECH SKILLS

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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 an mixing

## PUBLICATIONS

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### 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.

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### 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.

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### 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*.
- Zanoni, M., M. Buccoli, et al. (2019). "Deep Music on Air". In: *Proceedings of the 9th International Conference on Digital and Interactive Arts. ARTECH 2019*. Braga, Portugal.
- 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://www.massimilianozanoni.it/research.html>

## AWARDS

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

## INTERESTS

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Music Reading Cinema Art

Technology Creativity Nature

Make the world a better place

## OTHER EXPERIENCE

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- 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.