

ALBERTO NOVELLO

PERCEPTION SCIENTIST, MULTIMEDIA ARTIST

Address:

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Nationality: Italian

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Experiences:

- *Since 2017 Teacher of Electronic Music Composition, Conservatory of Music, Padua.*
- *Since 2017 Artistic Director of AESON Festival, Italy.*
- *2009 - 2017 Freelance multimedia researcher/ developer/ consultant with projects/courses developed at/for STEIM, Amsterdam, Philips Research Labs, Eindhoven, DansMakers, Amsterdam, DansAteliers, Rotterdam, CMMAS, Mexico, Nederlandse Dans Theater School, Amsterdam, Monotone Studios, Amsterdam, Trasformatorio, Italy, Melkweg, Amsterdam, Spectrum Festival, Austria.*
- *2013 - 2015. 3D C++ Audio Developer and Engineer, Auro Technologies, Belgium.*
- *2008 - 2009. Researcher in Psychoacoustics and Music Perception, Media Technology Interaction department, Technical University of Eindhoven.*
- *2005 - 2008. Researcher in the field of Music Information Retrieval at the Philips Research Laboratories, Eindhoven in the department of Digital Signal Processing.*
- *2004 - 2006. Teacher of Electronic Music Composition, Recording Techniques, Mathematics and Digital Signal Processing, Conservatory of Music G.F. Ghedini, Cuneo.*
- *2004 - 2004. Researcher in physical-modelling noise-synthesis, ACROE-ICA Laboratories and Institut National Polytechnique Grenoble, France.*
- *2001 - 2002. Researcher at the SuperESCA beamline, ELETTRA Synchrotron Light Laboratory in Basovizza, Trieste.*

Education:

- *2010 - 2011 Master in electronic music composition, Institute of Sonology, Royal Conservatory, Den Haag, NL with P. Berg, R. Barret, J. Ryan.*
- *2005 - 2009 PhD in Music Perception and Psychoacoustic, Technische Universiteit Eindhoven, with A. Kohlrausch and M.F. McKinney.*
- *2003 - 2004 Master Art, Science Technologies, Institut National Polytechnique Grenoble, with C. Cadoz and J.C. Risset.*
- *1996 - 2002 Bachelor and Master in Physics, University of Trieste.*
- *Double bass studies at Conservatory of Music J. Tomadini in Udine (Italy). Private studies of contemporary music, modern harmony, composition and improvisation with G. Marangone, G. Maier and J. Bigot.*

Knowledge/Skills:

- Languages:

Italian: Mother language, *English*: Fluent, *French*: Fluent, *Dutch*: Good, *Spanish*: Good, *German*: School level.

- Programming and Multimedia:

Languages: C++, Java, Tcl/Tk, Html/Php, Python. Software for data analysis (MATLAB) and real time digital signal processing for music (Max/MSP, PD, CSound, SuperCollider, several DAWs), image and video processing (Jitter, QC, Processing, Final Cut).

- Specialization:

Digital signal processing, machine learning, machine listening, graphical user interfaces for human computer interaction, classification techniques, pattern recognition and artificial intelligence, recording and microphone techniques, mixing and mastering, handling of a audio recording/editing studio.

Selected Publications:

- *A prototype for pitched gestural sonification of surfaces using two contact microphones*, NIME Conf. Proceedings (2015).
- *Invisible to visible : the EEG as a tool for music control and creation*, Lambert Academic Publishing, ISBN 978-3-8484-3985-0 (2012).
- *Perceptual and Algorithmic evaluation of inter-song similarity in Western Popular music*, Technische University Eindhoven press., ISBN 978-90-386-1831-9, (2009).
- *Algorithmic Prediction of Inter-song Similarity in Western Popular Music*, JNMR, 42-1 (2013).
- *Perceptual evaluation of inter-song similarity in Western Popular music*, JNMR, 40-1 (2011).
- *Musical Scene Analysis: Applying the laws of stream segregation to music*, Ideas Sonicas, CMMAS (2009)
- *Perceptual constraints in systems for automatic music information retrieval*, ICA Proceedings (2007).
- *Assessment of perceptual music similarity*, ISMIR Proceedings (2007).
- *Perceptual constraints in systems for automatic music information retrieval*, ICCE Proceedings (2007).
- *Perceptual Evaluation of Music Similarity*, ISMIR Proceedings (2006).

Research funds/Awards:

Invited Professor @Tallin Universit, Estonia 2017

Invited Professor @Sussex University, Uk 2017

OMI residency selection, NY 2017

Amsterdam Dance Event 2015 and 2016

New York Music Festival selection 2015

Seoul Computer Music Festival selection 2014

Destellos competition selection 2014

Kyberteatro Price 2014

STROOM Den Haag 2013 to 2018

Thamgidi Studio Foundation 2011

Nederlands Fonds voor Podium Kunsten from 2011 to 2018

ResArtis Award for best installation at the 2009 Biennale of Skopije

Regione Friuli Venezia Giulia 2004