

Manuel Brandner

Curriculum Vitae

Institute of
Electronic Music and Acoustics
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Relevant Experience

Since 2014 Hard- and Software Developer, Institute of Electronic Music and Acoustics // University of Music and Performing Arts, Graz, Austria

Prototyping and Implementation of Adaptive Active Noise Cancellation Systems for Headphones

Audio Aided Process Monitoring - Feature Extraction and Machine Learning

Noise Reduction and 3D Audio - Sound Zoning Methods

2011 - 2014 Sound Engineer (Helmut List Halle, Graz)

Education

Since 2017 **University of Music and Performing Arts, Graz, Austria.**

PhD program of Sound and Music Computing.

Dissertation topic: 'Analysis of Quality and Efficiency in Classical Singing with Objective Parameters'

2008 - 2014 **University of Technology/ University of Music and Performing Arts, Graz, Austria**

Diploma Program of Electrical Engineering and Audio Engineering,

Acquired academic degree: Dipl.Ing - Master of Science, Bachelor of Science

Diploma Thesis: 'Optimization of Active Noise Control Feedback Filter'

1999 - 2004 Höhere Technische Bundeslehranstalt, HTL Mössingerstraße Klagenfurt

Publications

Since 2014 DirPat—Database and Viewer of 2D/3D Directivity Patterns of Sound Sources and Receivers, AES 144 in Milano, 2018

Free-Field Pressure-Based Sound Power Measurement Procedure with Low Spatial-Sampling-and Near-Field-Induced Uncertainty, Internoise and Noise-Con in Hamburg, 2016

Feedback loop shaping for active noise control with constraints of the worst-case secondary paths, AAAA in Graz, 2014

3D sound source localization using a spherical microphone array, ICSA in Erlangen, 2014

Voluntary Activities

Since 2016 Works Council (substitute member)

2011 - 2013 Speaker of the *department for social affairs* within the Austrian Students Union at the University of Technology, Graz

Skills

Programming Matlab, C++, Java, SQL, Puredata
Languages German (native), English (fluent)