Andrés Pérez López

Personal Information

Email	contact@andresperezlopez.com
Website	`www.andresperezlopez.com`
GitHub	`www.github.com/andresperezlopez`
Twitter	`www.twitter.com/_aperezlopez`
LinkedIn	`www.linkedin.com/in/andresperezlopez`

Professional Experience

08/2020 - **Voicemod**
Technical Lead, audio technology.

04/2016 - 08/2020 **Eurecat: Technology Centre of Catalonia**
Multimedia Research Group
Research & Development on Spatial Audio Technologies

04/2016 - 07/2020 **Pompeu Fabra University**
Pompeu Fabra Polytechnic School
Teacher assistant, Master and Degree thesis supervisor

10/2015 - 04/2016 **Voicemod**
C/C++ Android Development for Real-Time Audio Processing

07/2014 - 10/2015 **Freelance Developer**
Research, development, artistic application and public communication of works intersecting Technology and Music

09/2013 - 07/2014 **Pompeu Fabra University**
Pompeu Fabra Polytechnic School
Teacher assistant on *Signals and Systems* undergraduate course

06/2012 - 12/2012 **Valencia Technical University**
Institute of Telecommunications and Multimedia Applications
Research assistant

Academic Education

04/2017 - 10/2020 **Pompeu Fabra University**
Music Technology Group
PhD in Information and Communication Technologies.
Cum Laude mention.

09/2013 - 07/2014 **Pompeu Fabra University**
Music Technology Group
Master in *Sound and Music Computing*

01/2012 - 06/2012 **Universidad Politécnica de Valencia**
Postgraduate Degree in *Electronic and Electroacoustic Music, Interactivity and Video Creation*

09/2005 - 03/2012 **Universidad Politécnica de Valencia**
Telecommunications Engineer
Escuela Técnica Superior de Ingenieros de Telecomunicación

09/209 - 06/2011 **Technische Universität Berlin**
Fachgebiet Audiokommunikation
Academic exchange and Master Thesis developemtn.

Thesis

UPF 2020 **Parametric analysis of ambisonic audio: a contributions to methods, applications and data generation**
PhD in Information and Communication Technologies
Pompeu Fabra University
Barcelona, Spain, October 2020

UPF 2014 **Real-Time 3D Audio Spatialization Tools for Interactive Performance**
Master in Sound and Music Computing
Pompeu Fabra University
Barcelona, Spain, July 2014

Patents

US 2021/0029487 A1 **Reverberation Technique for 3D Audio Objects**
United States Patent. Publication date: January 2021

EP3547305A1 **Reverberation Technique for 3D Audio Objects**
European Patent Office. Publication date: October 2019

Awards and Acknowledgemens

10/2020 **PhD Thesis**
Cum Laude mention for "Parametric Analysis of Ambisonic Audio.Contributions to methods, applications and data generation". PhD in Information and Communication Technologies

11/2020 **DCASE2020 Challenge**
Task 3 Judges' award for "Papafil: A Low Complexity Sound Event Localization and Detection Method with Parametric Particle Filtering and Gradient Boosting"

09/2020 **MMSP 2020**
Best Paper Runner-up award for "Blind reverberation time estimation from ambisonic recordings"

07/2015 **ICAD 2015: International Conference on Auditory Display**
Winner of the Sonification Contest for Magnetic Spaces: spatial sonification of the earth's magnetic field

12/2014 **Fabra i Coats: Art Factory**
Cultural Projects Seedbed Residency 2015. Free software tools for multimedia performance

11/2014 **L'Estruch: Live Arts Creation Factory**
Multiphonic Projects Residency 2015. La Neurona Tropical: brain-controlled interactive 3D music creation

12/2013 **Telenoika: Audiovisual Open Creative Community**
Reseach and Development Grants 2013. Listening Lights: live audio and lights synchronization

Academic Publications

DCASE 2020
Pérez-López, A. & Ibañez-Usach, R.
Papafil: A Low Complexity Sound Event Localization and Detection Method with Parametric Particle Filtering and Gradient Boosting
5th Workshop on Detection and Classification of Acoustic Scenes and Events
November 2020

DCASE 2020
Ronchini, F., Arteaga, D. & Pérez-López, A.
Sound event localization and detection based on crnn using rectangular filters and channel rotation data augmentation
5th Workshop on Detection and Classification of Acoustic Scenes and Events
November 2020

MMSP 2020
Pérez-López, A., Politis, A. & Gómez, E
Blind reverberation time estimation from ambisonic recordings.
IEEE 22nd International Workshop on Multimedia Signal Processing
September 2020

AES 2020
Pérez-López, A.
A Python library for Multichannel Acoustic Signal Processing
On *Audio Engineering Society Convention 148*
May 2020

AES 2020
Pérez-López, A.
pysofaconventions, a Python API for SOFA
On *Audio Engineering Society Convention 148*
May 2020

JASA 2019
Pérez-López, A. & Stefanakis, N.
Analysis of spherical isotropic noise fields with an A-Format tetrahedral microphone
The Journal of the Acoustical Society of America 146, EL329 (2019)s
October 2019

DCASE 2019
Pérez-López, A., Fonseca, E. & Serra. X.
A hybrid parametric-deep learning approach for sound event localization and detection
4th Workshop on Detection and Classification of Acoustic Scenes and Events
New York University
New York, USA, October 2019

IWAENC 2018

Pérez-López, A.
Ambiscaper: A Tool for Automatic Generation and Annotation of Reverberant Ambisonics Sound Scenes
International Workshop on Acoustic Signal Enhancement
Hitotsubashi Hall
Tokyo, Japan, October 2018

AES 2018

Pérez-López, A. & De Muynke, J.
Ambisonics directional room impulse response as a new convention of the spatially oriented format for acoustics
On *Audio Engineering Society Convention 144*
Universitaet fuer Musik und darstellende Kunst Graz
Milan, Italy, May 2018

ICAD 2015

Perez-Lopez, A.
3Dj: a SuperCollider Framework for Real-Time Sound Spatialization
On *Proceedings of the 21st International Conference on Auditory Display*, pp. 166-173
Universitaet fuer Musik und darstellende Kunst Graz
Graz, Austria, July 2015

TENOR 2015

Perez-Lopez, A., Alcantara, J.M. & Kientz, B.
Bigram Editor: a score editor for the Bigram Notation
International Conference on Technologies for Music Notation and Representation
Paris-Sorbone University and IRCAM
Paris, France, May 2015