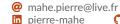
PIERRE MAHE

PhD. in Computer Science & Signal Processing



Pmea

✓ 9 rue de Bourgogne, 22300, Lannion, FRANCE www.pierre-mahe.fr





EXPERIENCE

R&D engineer, immersive audio compression

Orange Labs

Mar. 2018 - Dec. 2021

Lannion/Paris

 Ambisonics and multi-channel compression algorithms creation by traditional and Deep Learning (NN and VAE) approaches.

R&D engineer, audio signal processing

NoMadMusic

Sep. 2016 - Feb. 2018

Paris

- Source separation algorithms creation for classical music production.
- Score following algorithms implementation.

Research Internship

Ircam

Mar. 2016 - Aug. 2016

Paris

- Expressiveness analyses framework design in the context of dance performances.
- Movements trajectory following and expressiveness recognition by HMM and GMM.

Student project

Pierre et Marie Curie University

i Jan. 2014 - May 2014

Paris

- Conception of an automatic sound installation piloting by the environment
- Sound synthesis by PureData and MAX MSP

SKILLS

Signal Processing Machine Learning 3D Audio

Source Separation **Audio Compression**

programming skills

C/C++ Python Matlab Pytorch Java Git Docker

Audio software

Max Pure Data Faust Reaper Logic

Languages

- English scientific and usual
- Spanish basic knowledge

EDUCATION

PhD. candidate **Computer Science and Signal Processing**

La Rochelle University

Master degree ATIAM

2015 - 2016

2018 - 2021

Acoustics, Signal processing, Computer Science apply to Audio and Music

Ircam, Paris

Master degree SAR

2014 - 2015

Embedded and Distributed Systems

Pierre et Marie Curie University, Paris

Licence degree in Compute Science 014 With highest honour

Bordeaux University

FURTHER FORMATION

Attendance at several conferences (ICA, Eusipco, DAFx) and scientific popularization events.

Algorithms and C programming Teaching Assistant at Lannion IUT (approx. 100h).

Knowledge in sound recording and mixing, training at Aubervilliers music conservatory.

Deep Learning workshops organization and PhD seminars at Orange Labs Lannion.

Participating in various Hackathons (HAMR, Music Hack Day, Hacking Health...)

Trumpet player, having played in various bands: Symphonic Orchestras, Jazz bands ...

Status of Handicapped Worker **Driving Licence**