PIERRE MAHE

PhD. in Computer Science & Signal Processing

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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

📅 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

Python | C/C++ | Matlab | Pytorch | Java
Git | Docker

Audio software

Max | Pure Data | Faust | Reaper | Logic

Languages

- English – scientific and usual
- Spanish – basic knowledge

EDUCATION

PhD. candidate   2018 – 2021
Computer Science and Signal Processing

La Rochelle University

Master degree ATIAM   2015 – 2016
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 2013 – 2014
With highest honour

Bordeaux University

FURTHER INFORMATION

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