



# Mathieu Maréchal

3rd year PhD student • Acoustics

Here is a small text that discusses the goal of my application and presents myself quickly something. I will not discuss extensively any precise topics, simply do a presentation with a few key elements, basically an abstract of an appended cover letter for the application to the job I would like to apply to.

## Contact

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## Skills

- Data analysis and depiction
- Presentations
- Project organisation
- Problem solving with numerical tools

## Knowledge

- Wave propagation (EM acoustics)
- Poroelectric waves in periodic geometries
- Numerical methods
- Guided waves
- Differential calculus
- Linear Algebra
- Signal processing
- instrumentation

## Programming

- Python
- Latex
- Linux
- Web server and networks

## Software

- COMSOL Multiphysics
- Inkscape
- MS Office
- Adobe Suite

## Languages

### French

native

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### English

C2 (CEFR)

- Fluent technical level  
Erasmus program (2 semesters) in Prague with english courses

### German

B1 (CEFR)

- Lived 2 month as part of the Brigitte Sauzay exchange program

## Curriculum

### PhD thesis

LAUM, Le Mans Université

Le Mans, France

Oct. 2022 - December 2025

- University doctoral Scholarship at Laboratoire d'Acoustique de l'Université du Mans
- Research on metaporoelastic surfaces and interfaces for the joint mitigation of acoustic and elastic energies
- Numerical methods for the computation of dispersion relations
- Teaching experience: Master course on TMM and bachelor-level acoustics practicals sessions

### MSc Degree in Wave Physics and Acoustics

Le Mans Université

Le Mans, France

Sept. 2020 - July 2022

- International Master's degree in Wave physics and Acoustics
- 2 year-long project on acoustic absorption by metaporoelastic materials
- Education on academic research and various topics on wave propagation and phenomena

### L3 Erasmus

Czech Technical University

Prague, Czech Rep.

Sept. 2019 - June 2020

- Last year of Bachelor at CTU
- Prague
- Projects on wireless communication and radio antennas and acoustic event detection with a microphone array

### Licence SPI CMI

Le Mans Université

Le Mans, France

Sept. 2017 - June 2020

- Licence de sciences pour l'ingénieur (engineering sciences)
- acoustics and vibrations
- Internship: Acoustic study of a ball impact on a water surface

### Baccalauréat scientifique

Lycée Cassini

Clermont de l'Oise

July 2017

- Mention très bien

## Publications

- JAP 2025

## Interests

- Sound Synthesis (Modular)
- Experimental electronic music
- Film photography
- Bass guitar
- Bouldering
- Reading