Goestchel Quentin

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https://qgoestch.github.io/qgoestch//

My PhD defense is scheduled for October 2023, and I am currently seeking for a post-doctoral research opportunity in applied environmental acoustics. I am interested in utilizing numerical methods as tools to enhance our understanding of the interactions between sound and biodiversity.

Education

Joint Research Unit in Environmental Acoustics (UMRAE) — **Strasbourg, France**
PhD degree in acoustics, candidate — *[scheduled] Oct, 2023*

Acoustic propagation in forest environments. Numerical study for environmental applications:
- Theoretical study on the Transmission Line Matrix Method for modeling long-range forest scenarios
- Updating, improving and maintaining a code architecture in Python and OpenCL (C99)
- Supervision of an intern in computer science

Supervisors: Gwenaël Guillaume, David Ecotière, Benoit Gauvreau

Sorbonne Université — **Paris, France**
Master's degree in physical acoustics, Joint with ENSPS — *Oct, 2020*

Ecole Normale Supérieure Paris-Saclay (ENSPS) — **Cachan, France**
Master's degree of Ecole Normale supérieure Paris-Saclay — *Oct, 2020*

Multidisciplinary 'Grande Ecole', specialization in engineering and research

Lycée Eugène Livet — **Nantes, France**
Preparatory classes for engineering colleges — *Jul, 2015*

Two-year undergraduate intensive course in Physics and Technology

Lycée Aristide Briand — **St-Nazaire, France**
High School Diploma — *Sep, 2013*

Baccalaureat with a major in physics with first-class honors

Experience

Strasbourg University — **Strasbourg, France**
Computer science teacher (Lectures, tutorials and practical work) — *2022-2023*

Joint Research Unit in Environmental Acoustics (UMRAE) — **Strasbourg, France**
Trainee researcher — *2022-2023*

Numerical modeling of acoustic propagation over a forest floor using the TLM approach

Eindhoven University of Technology (TU/e) — **Eindhoven, Netherlands**
Trainee researcher, supervisor: Maarten Hornikx — *2017-2018*

- Applicability of the sound diffusion equation for acoustic simulations on 3D urban models.
- Development of a finite volume method Matlab code for irregular tetrahedral meshes.

CERN, the European Organization for Nuclear Research — **Geneva, Switzerland**
Trainee engineer — *Apr-May-Jun 2017*

Modeling the noise impact of the LHC expansion (HL-LHC) with an engineering software.

Special skills

- **Languages**: French as mother-tongue, fluent in English (Cambridge Advanced C1), proficient in Spanish
- **Programming languages**: Python, C99 (OpenCL), Zsh, Bash, Matlab
- **Documents rendering languages**: LaTeX, Markdown
- **Softwares**: FreeCAD, Solidworks, Slurm Workload Manager, Git, Inkscape

Driving License

Extracurricular activities

- mountaineering, climbing, hiking, backcountry skiing, alpine skiing, sailing, bass guitar