# Eddy Thevenet

+ (33) 6 854 383 63
eddy.thevenet@outlook.com
eddy-thevenet
ausoufre

*R&D Specialist in Instrumentation, Waves and Imaging*
Looking to tackle complex R&D geophysics and data analysis problems
to make all the difference in natural hazards and environmental monitoring.

## Experience

2024/05 – now **Geophysical and Instrumentation Network Engineer**, *CEA/DASE*, La Paz, Bolivia
Support for local cooperation program at Observatorio San Calixto. Operational maintenance of seismic and infrasound monitoring network. Configured seismic data processing including real-time system software (SeisComP). Scientific writing and data analysis involving machine learning for phase picking, association, locator and relocator on a temporary low-cost seismic network (Python).
*Reference:* Laurent Bollinger, PhD

2023/02 – 2024/04 **Research Geophysicist**, *Sercel*, Paris, France
Developed a workflow for passive joint inversion of surface and body waves in railway environment. Processed passive 3D surface wave tomography for civil, mining and energy infrastructures. Led international interactions with the University College of Dublin. Publication in European Association of Geoscientists and Engineers' journal Near Surface Geophysics.
*Reference:* Thomas Bardainne, PhD and Thibaut Allemand, PhD

2022/05 – 2022/08 **Visiting Student**, *Géoazur CNRS/IRD*, Nice, France
Developed earthquake data analysis for ocean-bottom Distributed Acoustic Sensing (Python). Confronted data to models of microseismic noise generated by ocean swell with IFREMER.
*Reference:* Professor Diane Rivet

2021/07 – 2021/12 **Ultrasound Engineer**, *Iconeus*, Paris, France
Validated medical devices for functional ultrasound imaging. Developed an image processing UI application based on contrast-to-noise ratio. Prototyped a multiphysical test bench for transducers (Arduino).
*Reference:* Bruno Osmanski, PhD

2020/07 – 2020/08 **Summer Intern**, *Institut Langevin*, Paris, France
Implemented a simulation of wave-dressed droplet in heterogenous random media (MATLAB). Identified transport regimes including localization with spatial correlation of scatterers.
*Reference:* Professor Emmanuel Fort

## Education

2022 – 2023 **M.Sc. in Geosciences**, *École Normale Supérieure - PSL*, Paris, France
Hydrogeology, Cryology, Geophysical Imaging, Mining Geology, Machine Learning, Environmental History
*Advisor:* Professor Florence Habets

2019 – 2022 **Engineering Graduate School in Physics**, *ESPCI - PSL*, Paris, France
Underwater Acoustics, Medical Imaging, Telecommunications, Statistical Modeling, Quantum Optics
*Advisor:* Professor Emmanuel Fort

2017 – 2019 **Intensive program in STEM**, *Lycée international Jean Perrin*, Lyon, France
Mathematics, Physics, Chemistry, Engineering, Litterature, English

## Skill matrix

| Skill | | Level | *Comment* |
|---|---|---|---|
| **Languages:** | French, English, Spanish | ■■■■■ | *Proficiency* |
| | German, Russian | ■■□□□ | *Basic* |
| **Programming:** | Python/MATLAB | ■■■■■ | *Deepened expertise with hundreds of projects* |
| | shell scripting | ■■■□□ | *Intermediate knowledge with some project experience* |
| | C/C++ | ■■□□□ | *Little project experience* |
| | MySQL | ■□□□□ | *Basic knowledge* |
| **OS:** | Arduino/Raspberry Pi | ■■■■■ | *Ready for quick prototyping!* |
| | Linux | ■■■■□ | *I have been using Ubuntu and CentOS for years* |
| **Softwares:** | SeisComP | ■■■■■ | *Extensive experience in operational environment* |
| | Generic Mapping Tool | ■■■■□ | *Creating neat base maps* |
| | git | ■■■□□ | *Pull and merge in software developper's branch* |