Pierrick Le Vourc'h

PhD student

 (+33) 0676783927
 pierrick.le-vourc-h@umontpellier.fr
 elvipy.github.io/pierrick-levourch/en/
 github.com/Elvipy

Experience

2023-   **PhD student** *IMAG, Université de Montpellier, France.*

Thesis untitled *Derivation and analysis of compressible multiphase flow models*, supervised by N. Seguin and K. Saleh.

Education

2022-2023   **MSc: Advances Mathematics, PDE major** *ENS de Lyon, France*

2021-2022   **MSc: Agrégation de mathématiques** *ENS de Lyon, France*

French teaching competitive exam. Option: Scientific computations. Ranked 61.

2020-2021   **Master 1: Advanced Mathematics** *ENS de Lyon, France*

2019-2020   **BSc: Fundamental Mathematics** *ENS de Lyon, France*

2016-2019   **Preparatory class: CPGE MPSI-MP***, *Lycée La Pérouse-Kerichen, Brest, France*

French prparatory program to prepare the competitive exams for engineering and top scientific studies. Option: computer sciences.

Publications

Teaching experience

2024-2025   **Seminar teacher** *Université Claude Bernard Lyon 1, France*

Supervision of 64h of mathematics exercise sessions for college freshmen.

2023-2024   **Seminar teacher** *Université de Montpellier, France*

Supervision of 64h of mathematics exercise sessions for college freshmen.

2023-   **Author of competitive exams corrections** *H&K Editions, France*

Writing and proofreading of corrections of mathematics papers of engineering schools' competitive exams. Find the books I contributed to at h-k.fr/pierrick.le-vourc-h.

2022-2023   **Supervision of oral evaluations in preparatory classes** *Lycée du Parc, Lyon, France*

Scientific events

Responsabilities

2024-2025   **Co-head of the PhD students' seminar** *IMAG, Montpellier, France*

Oct 2024   **Member of the organizing committee of the Congrès des Jeunes Chercheur.e.s en Mathématiques Appliquées (CJC-MA24)** *Lyon, France*

Talks and presentations

Dec 2024   **Regional PhD students' seminar** *Toulouse, France*

Poster presentation "Derivation of an averaged model for a stratified compressible two-phase flow".

Nov 2024   **Scientific days of the CNRS Network "Terre & Énergies"** *Nouan-le-Fuzelier, France*

Poster presentation "Derivation of an averaged model for a stratified compressible two-phase flow".

June 2024   **6th Workshop on Compressible Multiphase Flows** *Strasbourg, France*

Poster presentation "Derivation of an averaged model for a stratified compressible two-phase flow".

May 2024   **46th National Congress on Numerical Analysis** *Île de Ré, France*

Poster presentation "Derivation of an averaged model for a stratified compressible two-phase flow".

Feb 2024   **PhD Student Seminar of the ICJ and UMPA** *Lyon, France*

Talk untitled "Averaged models for compressible multiphase flows".

Jan 2024   **Integration Days of the Institut Camille Jordan** *Lyon, France*

Presentation of a poster untitled "Derivation and analysis of compressible multiphase flow models"

Internships

Apr 2023 to Jul 2023   **Institut Camille Jordan** *Lyon, France*

Derivation of a bifluid stratified compressible flow model, supervised by Khaled Saleh.

May 2021 to Jul 2021   **ICMAT** *Madrid, Spain*

Analytical and Numerical Approach to the Dirichlet Problem for Laplace's Equation, supervised by José María Martell.

Jun 2020 to Jul 2020   **CEREMADE** *Paris, France*

Introduction to control theory, supervised by Pierre Lissy.

Skills

Computer skills

Python Intermediate knowledge

LaTeX Extensive knowledge

Office suite Advanced knowledge

Languages

French Mother tongue

Breton Mother tongue

English Level C2 (Cambridge English Advanced, 205 points)

Spanish Intermediate knowledge