Camille Célariès

PhD student in Theoretical Biophysics

Personal informations

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Website camillecelaries.github.io

Office n°27 (3rd floor, left corridor) at Charles Coulomb Laboratory (building 21 of Faculty of Sciences, Montpellier, France)

Work experience

March 2024 - Present
PhD Student in Biophysics,
Charles Coulomb Laboratory, Montpellier, France,
Subject: Theoretical physics modeling of bacterial respiration and charge transfer,
Advisors: Andrea Parmeggiani and Nils-Ole Walliser

2024 - Present
Teaching Assistant at the Physics Department,
Faculty of Sciences, Montpellier, France,

March - July 2023
Research Intern in Geosciences,
Geosciences Laboratory, Montpellier, France,
Subject: Modeling the morphodynamics of the coastline by non-linear diffusion,
Advisor: Frédéric Bouchette

March - July 2022
Research Intern in Mathematics,
Institut Montpelliérain Alexander Grothendieck, Montpellier, France,
Subject: φ-FEM method for solving linear elasticity problem,
Advisor: Vanessa Lleras

May - June 2021
Research Intern in Mathematics,
Institut Montpelliérain Alexander Grothendieck, Montpellier, France,
Subject: Finite-Volume method for gaz dynamics,
Advisor: François Vilar

2017 - 2023
Private Tutor in Sciences and Humanities,
Montpellier, France

Education

2020 - 2023
Master of Science in Theoretical and Numerical Analysis of PDEs,
Faculty of Sciences, Montpellier, France,
Courses followed: theoretical and numerical analysis of PDEs, functional analysis, differential geometry, a posteriori estimates and mesh adaption, inverse problems, programming, modeling, optimization, machine learning

2016 - 2020
Bachelor of Science in Pure and Applied Mathematics,
Faculty of Sciences, Montpellier, France,
Courses followed: linear and bilinear algebra, topology, measure and integration theory, probability, statistics, differential calculus, arithmetic, ODE analysis, programming, modeling, numerical analysis, optimization

2016
High School Diploma in Science, specialized in Mathematics,
Lycée La Borde Basse, Castres, France

Computer skills

Programming	Python, C/C++, Java, R
Softwares	FreeFEM++, Matlab, Mathematica
Markup languages	HTML, CSS, PHP
Typesetting systems	LaTeX, Beamer, Microsoft Office
Operating systems	Linux, Windows, macOS

Languages

French	Native (TEF level : C2)
English	Fluent (IELTS level : C1)
Spanish	Intermediate