

Camille Célariès

PhD student in Theoretical Biophysics



Personal informations

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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's Degree 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's Degree 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	L ^A T _E X, Beamer, Microsoft Office
Operating systems	Linux, Windows, macOS

Languages

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