Delfín Calles Fantova

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Studies

Paris Saclay University **2019 - 2022**
Mathematics degree, major in numerical analysis *Orsay, France*

Montpellier University **2023 - 2024**
M1 Master in numerical modelling and analysis *Montpellier, France*

Montpellier University **2024 - Present**
M2 Master in numerical modelling and analysis *Montpellier, France*

Professional experience

Study of dynamic systems using Lie algebras (Isaac Garcia) **Summer 2022**
Lleida, Spain

Tutoring at college/high school level (Academie Miro) **04/2023 - 06/2023**
Lleida, Spain

Skills

Programming languages: Python, C++, R, FreeFem++, FEniCSx
Implementation of HHO schemes (M2, Daniele Di Pietro)
Using finite volumes methods for hyperbolique PDE (M1, François Villar)
Mesh adaptation for a certain metric (M2, Bijan Mohammadi)
Basic knowledge in fluid mechanics (M1, Pascal Azerad)
Knowledge in fluid-solid interactions (M2, Mathieu Hillairet)
Elementary methods and techniques used for optimization (M1, Bijan Mohammadi/Daniele Di Pietro)

Languages

Spanish (Native)
Catalan (Native)
English (C1)
French (B2)

Projects

Implementing the $\phi - FEM$ method in FEniCSx for PDEs with natural conditions on the limits.
Theoretical study and implementation of a finite elements method for a PDE with Neumann conditions on the limits.