PhD student in mathematical biology



FOSTIER LOUIS

Contacts

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PROGRAMMING SKILLS

Knowledge of

- Matlab, Scilab
- Python
- C/C++, Fortran 90
- FreeFem++.
- Comsol Multiphysics

LANGUAGES

English: Advanced

• Italian: Advanced

French: Native

HOBBIES

- Sport: 15 years of soccer and 3 years of athletics
- Music: composition with CAD software (FL studio)
- Exact sciences (biology, physics)
- Nature, hiking

EDUCATION

THESIS MATHEMATICAL MODELING OF **OOGENESIS IN FISH**

Inrae Val de Loire Center, BIOS team, MUSCA INRIA team, 2022-Current

Modeling, theoretical study of the model (size-structured population model), implementation and numerical simulation, inverse problem

MASTER DEGREE SCIENTIFIC CALCULATION AND MODELING, specialty in numerical analysis, Summa cum Laude

University of Rennes 1, 2020-2022

Physical modeling, Analysis, Numerical analysis, Numerical simulation, Parameter estimation, Scientific calculation

BACHELOR'S DEGREE MATHEMATICS FOR RESEARCH, with highest honour

University of Rennes 1, 2017-2020

Linear and bilinear algebra, Differential equations, Differential calculus, Topology, Lebesgue integral, Numerical analysis,...

WORK EXPERIENCES

Teaching:

Part-time teaching assistant - University of Tours - 01/23-04/23

Contract agent-University of Rennes 1 - 09/20-06/21

Educational tutoring for students in L3 mathematics

Private teacher - 09/20-04/22

Internships and Hackathons:

Hackaton Scientific Machine Learning CEMRACS 07/23-08/23

function and ODE

M2 internship - INRIA and INRAE - Saclay - 04/22-09/22 Modeling fish oogenesis

M1 internship - IRMAR and NuMeCan - Rennes - 06/21-07/21 Scientific calculation for biofilms, from adhesion to detachment

Other:

Order picker - OCP Distribution - 06/21 Dock agent - GEODIS and Mondial Relay - 05/20-06/20 Deliverer - DARTY - 06/19-07/19 Handling - Design by Perspective and GLS - 05/18-06/18