



Baptiste GUILBERY

EMAIL

baptiste.guilbery
@inria.fr

Skills

Statistics, Machine Learning
Mathematical optimization
Operation Research
Mathematical modeling
Problem Solving
Technical writing

Programming :
Java, Python, C, C++

English : C1, TOEIC (970/990)

French : fluent

GitHub



<https://github.com/LeProblemeEDMN/Projets>

Hobbies

Rock climbing
Slack line
Travelling

PhD student

Formation and degree

2025/28

PhD at INRIA : Model reduction applied to Thermo-Hydro-Mecanical Simulations.

2022/25

Applied mathematics engineering cycle at INSA Rennes, France

2020/22

Preparatory cycle at INSA Rennes

Internships

February to july 2025

IFPEN

Improving the parallel performance of the reactive transport solver of Geoxim a numerical simulation code for underground fluids physics.

May to august 2024

Script&Go

Develop an image classification model for building defaults. Use of other data such as the temporality of the images to improve the results.

June to august 2023

IRMAR

Research internship. Development and study of a non-differentiable convex optimization algorithm. Redaction of a research paper.

Publication

Guilbery, B., Belmiloudi, A., Haddou, M. (2026). Solving Systems of Fractional Differential Equations by Using Physics Informed Deep Learning methods and Application to a Fractional Order Bergman's Minimal Type Model of Insulin Injection.

Involvement

Article submitted and accepted and presentation to the 5th international conference on Modelling, Computation and Optimization in Information Systems and Management Sciences

Since 2020 : Treasurer and member of the IT pole of the INSA Rennes robot club

Participation in the French Robotics Cup 2023/25

2021-2025 Participation and organisation of the finals of the Cod'INSA competition.