Thibault Cimic

HPC Research Engineer in Applied mathematics

36 Résidence du Parc d'Ardenay
91120 Palaiseau
France
  +33 6.59.87.68.00
 ✉ *thibaultcimic@protonmail.com*
www.cimic.fr

Experiences

2023-2024-08   **HPC Research Engineer**, *LGL, Digiteo*, CEA, Saclay
Parallelization of an optimized high order polynomial finite element propagation wave solver called Ondo.

2018-2021-09   **PhD Student in Applied Mathematics in Team ALPINES**, INRIA, Paris 12ième
Construction of a 2-lvl preconditioner for the map-making problem in Cosmology and acceleration of linear solvers for large sparse linear systems with Enlarged CG.

2018-2020-09   **Teaching Assistant**, Sorbonne Université - UPMC, Paris 5ième
Finite Element in Python, Solving linear system in C++, ODE in Python

Education

2016-2018   **Research Master in Mathematics**, *France, Paris, Université Pierre et Marie Curie, 75005*, Laboratoire Jacques-Louis Lions
  ○ Functional analysis, Finite Element implementation, Optimisation, Spectral Theory, Control Theory

2016   **Bachelor's Degree in Mathematics**, *France, Paris, Sorbonne Universités, Université Pierre et Marie Curie, 75005*

2012   **Highschool Degree**, *France, Dammarie-lès-lys, 77190*

Conferences and Presentations

2020   **SIAM PP20**, *Seattle, USA*, Presentation of construction of fully algebraic 2-level preconditioner for the map making problem in CMB data analysis in astrophysics

2020   **NAHCPS**, *London, UK*, Enlarged Conjugate Gradient (ECG) techniques on a large sparse linear system from the map-making problem in Cosmology

2019   **Modelling**, *Czech Republic, Olomouc*, Presentation of new results of Enlarged Krylov Methods and description of first ideas of domain decomposition methods in a fully algebraic framework

2019   **NLAFET**, *England, Oxford*, Presentation of continuity of work beyond the NLAFET project

Coding tools

Confirmed level: C++, Python, LaTeX, Bash, Markdown
Medium level: C, Julia, Fortran, Git

Projects

Lina : Linear Algebra package in C++
ECG : Enlarged Conjugate Gradient package in C++

Languages

French   Mother tongue
English   Fluent
Italian   Beginner/B2

Sport Events

September 18th 2022   **Triathlon Finisher**, *Lac de Madine, 55210 Nonsard-Lamarche*, Finisher of the triathlon 1.5K-40K-10K, chrono 3h04min, organised by LightOnTri

August 28th 2022   **Duathlon Finisher**, *Chantilly, 60500, France*, Finisher of the Chantilly Castle Duathlon 6K-45K-10K, chrono 3h24min, organised by Castle Race Series