








# Bertrand Thierry




Researcher at CNRS  
Ir. Dr. Applied Mathematics

-  French & German
-  Nov 2, 1984
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## Publications & Talks

-  11 (+1) Scientific Articles
-  8 International Conferences
-  2 National Conferences






## Languages

-  French ●●●●●
-  English ●●●●●
-  German ●●●●●

## Computer Skills

-   $\LaTeX$  ●●●●●
-  Git ●●●●●
-  C++, MPI, OpenMP ●●●●●
-  Python ●●●●●
-  JavaScript ●●●●●
-  HTML - CSS ●●●●●
-  Drupal (CMS) ●●●●●

## Social Network

-  0000-0002-6548-9076
-  Bertrand\_Thierry
-  I526N\_8AAAAJ
-  Bertrand-Thierry/96/131/856
-  Bertbk

## Working Experience

- 2016 – 2021 **Researcher** CNRS - Sorbonne Université  
*Numerical Simulations of Electromagnetic Wave Propagation*
- 2014 – 2016 **Post-Doc Position** Univ. Pierre et Marie Curie & Hutchinson SA.  
*Developer for a Solver for Mechanical Structure Problem*
- 2013 – 2014 **Research Engineer** Organisme PÉtrolier de Recherche Appliquée  
*Analysis and Numerical Simulations of Seismic Imaging*
- 2011 – 2013 **Post-Doc Position** Université de Liège  
*Development of a Parallel Solver Based on Domain Decomposition Method*

## Education

- 2007 – 2011 **PhD Student** Univ. Henri Poincaré - Nancy 1  
*Analysis and Numerical Simulation of Multiple Scattering and Time-Reversal*
- 2006 – 2007 **Master's Degree in App. Math.** Univ. Henri Poincaré - Nancy 1
- 2004 – 2007 **Engineering Student** ENSEM, Nancy

## Recent Papers

- 2022 **On Domain Decomposition Methods with optimized transmission conditions and cross-points**  
*B. Després, A. Nicolopoulos and B. Thierry*  
SIAM Journal on Numerical Analysis.
- 2021 **Corners and stable optimized domain decomposition methods for the Helmholtz problem**  
*B. Després, A. Nicolopoulos and B. Thierry*  
Numerische Mathematik
- 2019 **Integral Equation Based Optimized Schwarz Method for Electromagnetic**  
*X. Claeys, F. Collino and B. Thierry*  
Domain Decomposition Methods in Science and Engineering XXIV (Proceeding)

## Current Teaching Activity

- 2017 – 2021 **Finite Element Method** Polytech - Sorbonne Université  
*From theory to practice - Engineering School (Master 2 level)*
- 2017 – 2021 **Solving Linear System of Important Size** Sorbonne Université  
*Implementation of the Usual Direct and Iterative Methods in C++ - Master 1*
- 2019 – 2020 **Project Manager** Polytech - Sorbonne Université  
*Implementing a Multiple Scattering Solver in Julia (Master 2 level)*
- 2017 – 2021 **Project Manager** Sorbonne Université  
*Computational Mathematics - License 3*

## Responsibilities

- 2018 – 2021 **Seminar *infomath* (Co-organizer)** Sorbonne Université  
*Presenting and Teaching Numerical Tools for Mathematicians*  
<http://infomath.pages.math.cnrs.fr>
- 2010 – 2011 **PhD Student Seminar** Univ. Henri Poincaré - Nancy 1