

Project Acronym: MULTIMAT Project ID(6 digits): 505226 Project Participant: CMAO,
Ecole Polytechnique, Palaiseau, France

Name	Nationality	Actual place	Previous place	Start date	Duration	Category	Place	Country
VAN GOETHEM, Nicolas	Belgian	CMAF Universidade de Lisboa, Portugal.	Université catholique de Louvain-la- Neuve, Belgium.	15/01/2007	13 months	ER	Ecole Polytechnique	France

I obtained my Bachelor and a MSc in Applied Mathematics at the Université catholique de Louvain, BELGIUM. For my MSc thesis, I spent 3 months in the Material science department of Erlangen University, GERMANY. Then I moved to Pisa, ITALY, for a one-year research project at the Mathematics department. I began a PhD in Mechanics at the Université catholique de Louvain, BELGIUM. During these years I also spent a 3-months MarieCurie fellowship at the Mathematics department of the University College of London, UNITED KINGDOM. After the thesis, I spent 13 months at Ecole Polytechnique in Palaiseau, FRANCE. Presently, I have a 5-year research position at the CMAF (Centro de Matemática e Aplicações Fundamentais) which is linked with the Universidade de Lisboa, PORTUGAL.

My research topics concern defects in elastic materials. In particular, dislocations and disclinations modeling in single crystals growing from the melt, quasi-static damage evolution, crack initiation and propagation in brittle materials. Significant progress has been achieved in the numerical simulation of damage in brittle material by using a level set method during my MULTIMAT Post Doc. Talks about the two first topics have been given during two MULTIMAT conferences, in Prague and Oxford. A conclusive talk on my post-doc topic will be given in Bonn during the last meeting.

I owe much of my training to research experiences abroad, in the areas of Material Science, Mathematics, and Mechanics. These international experiences, and in particular the MULTIMAT Post-Doc at Ecole Polytechnique played a crucial role in applying to my present research position.