

DARRIGRAND Eric  
Born on July 09, 1976 at Pau (France, 64)  
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DOCTOR ON APPLIED MATHEMATICS  
Postdoctoral position at the University of Delaware  
Department of Mathematical Sciences

**Qualification**

Sept. 2002	PhD thesis - Bordeaux-1 University and CEA/CESTA (France) conducted by Alain Bachelot, professor at Bordeaux-1 University
June 1999	DEA on Applied Mathematics (mention Bien) - University Bordeaux-1 (France, 33)
June 1998	Maîtrise on Applied Mathematics (mention Très Bien, Major) - University of Pau
June 1997	Licence on Mathematics (mention Très Bien, Major) - University of Pau
June 1996	DEUG MMPI (mention Très Bien, Major) - University of Pau (France, 64)
June 1994	Baccalauréat C - Highschool Jacques Monod of Lescar (France, 64)

**Professional experience**

Oct. 2002 - ...	Postdoctoral position at the Department of Mathematical Sciences of the University of Delaware (Newark, DE - USA)
Sept. 1999 - Sept. 2002	PhD thesis - Coupling of Microlocal Discretization and Fast Multipole Method for the Solution of Integral Equations of Electromagnetism.
Feb.-July 1999	Training period of DEA, 6 months at CEA/CESTA, Le Barp (France, 33) - Study of Fast Multipole Method for Laplace's problem.

**Publications**

Aug. 2001	<i>Coupling of Fast Multipole Method and Microlocal Discretization for the 3-D Helmholtz Equation</i> , Eric DARRIGRAND, Preprint LRC-M03 CEA-MAB, n° 01.19.
2002	<i>Coupling of Fast Multipole Method and Microlocal Discretization for the 3-D Helmholtz Equation</i> , Eric DARRIGRAND, Journal of Computational Physics <b>181</b> , p 126-154 (2002)

## Conferences

- Dec. 2002 Workshop "New Trends in Boundary Elements", Oberwolfach (Germany), invited speaker.
- May 2002 Conference "Canum 2002", Pau (France), communication submitted.
- March 2002 Workshop "Elements finis et équations intégrales", Clermont-Ferrand (France), invited speaker.
- March 2002 Conference "JEE'02: European Symposium on Electromagnetics", Toulouse (France), oral communication.
- July 2001 Conference "IEEE APS/URSI 2001", Boston (USA), oral communication.
- May 2001 Conference de "Mathématiques Appliquées et Industrielles", Pompadour (France), poster.
- March 2001 WorkShop "Large Linear Systems", Toulouse (France), oral communication.
- Sept. 2000 Conference "Boundary Integral Methods", Bath (UK), oral communication.
- July 2000 Conference "WAVES 2000", Santiago de Compostela (Spain).

## Seminars

- June 27, 2002 Seminar "FMM" - Electromagnetism Center of CNES Toulouse (France)
- April 15, 2002 Seminar "Analyse appliquée" - LAMFA, University of Picardie (France)
- Jan. 22, 2002 Students' seminar - MIP, Toulouse-3 University (France)

## Skills

- Mathematics Mathematical and numerical analysis of EDP -  
Integral equations - Iterative methods -  
Finite element method - Finite differences
- Physics Acoustic, Electromagnetism
- Computing Operating systems: UNIX, MS-DOS, WINDOWS  
Programming: Fortran 90, Fortran 77, Pascal, Totalview  
Computers: Cluster IBM SP2/Power3, Cluster Compaq ES40/EV68  
Meshing: Ideas  
Visualization: XMGR, Tecplot, AVS  
Others: Maple, LaTeX, PowerPoint, Word, Excel
- Languages French, English, Spanish

## Leisure

- Sports Mountain biking, Karate, Horse riding, Scuba diving
- Others Scale models, Photography