

Mathieu CAUSSE

LGIT

Maison des Géosciences

1381, rue de la Piscine BP 53

38041 GRENOBLE CEDEX 9

Tél. : +33 6 83 44 80 60

mathieu.causse@obs.ujf-grenoble.fr

Education

- 2009 PhD thesis: Blind predictions of broadband ground motion, LGIT, Grenoble, France
<http://tel.archives-ouvertes.fr/tel-00392066>
Supervisor: Fabrice Cotton
- 2005 Master 2 in Earth Sciences, with honours, Université Joseph Fourier, Grenoble
- 2004 Engineer diploma in Geotechnics, Université Joseph Fourier
-

Publications

Causse M., F. Cotton, P.Y. Bard and C. Cornou (2008). Calibrating Median and Uncertainty Estimates for a Practical Use of Empirical Green's Functions Technique, *Bull. Seismol. Soc. Am.*, 98, 344-353.

Causse M., E. Chaljub, F. Cotton, C. Cornou and P.Y. Bard. New Approach for Coupling k^{-2} and Empirical Green's Functions: Application to the Blind Prediction of Broadband Ground-motion in the Grenoble Basin, accepted in *Geophys. J. Int.*

Causse M., F. Cotton and P.M. Mai. Constraining the roughness degree of slip heterogeneity, submitted to *J. Geophys. Res.*

Professional experiences

- 2007 Classes on seismic source, European master MEEES
- 2004 Training period in site effect study in the Grenoble sedimentary basin (6 months), LGIT
- 2002 Internship in snow avalanche hazard (2 months), RTM service, Chambéry
- 2002 Individual tutoring in mathematics and German (secondary school)
-

Skills

- Field trip in Caracas (1 month), seismic noise and earthquake recording
 - Participation to international meetings (AGU 2007; EGU 2007; ESG 2007, Grenoble; ECEES 2006, Geneva)
 - Co-supervisor of a marine seismic field trip, master students
 - Programming in fortran, matlab, latex
-

Languages

- English : fluent
 - German : high school level
-

Passions

- Ski touring and extreme skiing, climbing (level 7a), alpinism (preparation of the mountain guide qualification), foot race
- Music (rock, jazz and classical music), 6 years diploma in piano