

Marie PÉTRONILLE

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EDUCATION

- 2005-2006** **First year of PhD in Applied Geophysics** directed by Pr. Albert Tarantola of « Institut de Physique du Globe de Paris » (IPGP) and by Pr. Alain Tabbagh of « Département de Géophysique Appliquée » (DGA, UMR 7619 Sisyphe, Université Pierre et Marie Curie, Paris VI): « *Contribution to the characterization of soils occupation type using magnetic properties* ».
- 2004-2005** **Second year of Master Recherche de Sciences de la Terre, de l'Environnement et des Planètes, Speciality in Geophysics**, at « Institut de Physique du Globe de Paris » (*with honors*).
- 2002-2004** **Magistère des Sciences de la Terre** at « École Normale Supérieure de Paris - Université Paris VI » (*with honors*).
- 2000-2002** **D.E.U.G. de Sciences de la Terre et de l'Environnement** at « Université Paris VI » (*with honors*).
- 1999-2000** **Baccalauréat S** speciality SVT at « Lycée Jean Monnet » (Yvelines, France) (*with honors*).

RESEARCH EXPERIENCE

- 2006** **Geoarchaeological study and geophysical prospection** (electromagnetic, magnetic and electric methods) **on the gallo-roman site of Vieil-Évreux (Eure, France)**.
5 days
- 2005** Research internship at the **laboratoire de Géomagnétisme et Paléomagnétisme** (St Maur, CNRS – IPGP): « *Paleomagnetic study of the East Alkaline Province (EAP), Trans-Mexican Volcanic Belt* ».
6 months
- 2005** **Geophysical prospection on a medieval archaeological site (Château du Bouchet, France)**: electric resistivity, magnetometry, gravimetry.
5 days
- 2004** Research internship at the **laboratorio de Paleomagnetismo de la UNAM (Mexico City)**: « *Paleomagnetic study of lava flows from the Ceboruco-San Pedro volcanic field (western Mexico), Trans-Mexican Volcanic Belt* ».
6 months
- 2003** Research internship at the **Département de Géophysique Appliquée** (UMR 7619 Sisyphe – Université Paris VI): « *Hydrological and archaeological study of water provisionment of the ancient public baths of Cassinomagus (Chassenon, Charente, France)* ».
1 month
- 2003** **Geology of California** (Sierra Nevada, Basin and Range, Coast Range, Great Valley): tectonic, metamorphism, volcanism, seismology.
3 weeks

LINGUISTIC AND COMPUTING QUALIFICATIONS

- English** Good working knowledge.
- Spanish** Good knowledge (stay of 6 months in Mexico).
- German** Basic knowledge.
- Russian** Scholar notions.
- Computing** Fortran, Matlab, LaTeX, html, Word, Excel, Powerpoint, Adobe Photoshop and Illustrator, Wumap, Grapher, Surfer.

OTHER SKILLS

- Publication** **Pétronille M.**, Gogutchashvili A., Henry B. and al., 2005. *Paleomagnetism of Ar-Ar dated lava flows from the Ceboruco-San Pedro volcanic field (western Mexico): Evidence for the Matuyama-Brunhes transition precursor and a fully reversed geomagnetic event in the Brunhes chron*, JGR.
- Other activities** **Archaeological excavation of a gallo-roman necropolis on the Hôpital Avicennes (Bobigny, France)**: excavation of pits and graves directed by the archaeologist Yves le Béchenec (july 2003, 3 weeks).
- Tutor** in Applied Geophysics (2005-2006): supervision of students in D.E.U.G. and Master 1.