

Marie PÉTRONILLE

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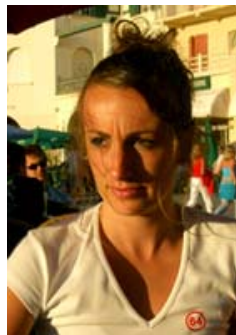
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EDUCATION

2005-2006 <i>(in progress)</i>	First year of PhD in Applied Geophysics. Thesis 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). Subject: « <i>Contribution to the characterization of soils occupation type using magnetic properties</i> ».
2004-2005	Second year of Master Recherche de Sciences de la Terre, de l'Environnement et des Planètes, Speciality in Geophysics (with honors). Institut de Physique du Globe de Paris.
2002-2004	Magistère des Sciences de la Terre (with honors). École Normale Supérieure de Paris - Université Paris VI.
2000-2002	D.E.U.G. de Sciences de la Terre et de l'Environnement (with honors). Université Paris VI.
1999-2000	Baccalauréat S speciality SVT (with honors). Lycée Jean Monnet (Yvelines, France).

RESEARCH EXPERIENCE

2005 <i>6 months</i>	Research internship at « laboratoire de Géomagnétisme et Paléomagnétisme » (St Maur, France, CNRS - IPGP UMR 7577). Subject: « <i>Paleomagnetic study of the East Alkaline Province (EAP), Trans-Mexican Volcanic Belt</i> ». Supervision: <ul style="list-style-type: none">• Bernard Henry (Research director CNRS IPG Paris).• Dr. Avto Gogichaishvili (Researcher UNAM Mexico D.F.).
2004 <i>6 months</i>	Research internship at « laboratorio de Paleomagnetismo I de Geofisica Nuclear de la UNAM », Instituto de Geofisica (UNAM Mexico D.F.). Subject: <ul style="list-style-type: none">• « <i>Paleomagnetic study of lava flows from the Ceboruco-San Pedro volcanic field (western Mexico), Trans-Mexican Volcanic Belt</i> ».• Sample campaign in the San Pedro-Ceboruco volcanic complex (february 2004). Supervision: Dr. Avto Gogichaishvili (Researcher UNAM Mexico D.F.).
2003 <i>1 month and a half</i>	Research internship at « Département de Géophysique Appliquée » (UMR 7619 Sisyphe - Université Paris VI). Subject: <ul style="list-style-type: none">• « <i>Hydrological and archaeological study of water provisionment of the ancient thermal baths of Cassinomagus (Chassenon, Charente, France)</i> ».• Participation in the geophysical prospection using electrical methods (use of the Syskal-R1 Plus, Schlumberger and Wenner a electrodes configurations) in order to look for hydraulic structures near the gallo-roman thermal baths of Chassenon (june 2003). Supervision: <ul style="list-style-type: none">• Pr. Alain Tabbagh (Researcher Université Paris VI).• Cécilia Bobée (PhD student Université Paris VI).

FIELD TRIPS

2006 5 days	Geoarchaeological study and geophysical prospection (electromagnetic, magnetic and electric methods) on the gallo-roman site of Vieil-Évreux (Eure, France).
2005 2 weeks	Geophysical prospection on the medieval archaeological site of Château du Bouchet (Nièvre, France): electric resistivity, magnetometry, gravimetry to recognize subsoil's structures (surrounding wall, moats, underground cavities).
2003 3 weeks	Geology of California (Sierra Nevada, Basin and Range, Coast Range, Great Valley): tectonic, petrology, metamorphism, volcanism and seismology.
2003 1 week	Marin seismic internship in the Oceanic Laboratory of Villefranche-Sur-Mer (Alpes-Maritimes, France) and 3 days on the Tethys II.
2003 1 week	Geology of Bourgogne (France): sedimentology and regional geology.
2003 1 week	Geology of Cotentin: metamorphism and petrology of the granite of Flamanville (Manche, France), regional geology.
2002 2 weeks	Geology of Hautes-Alpes (Aspres sur Buesch valley, France): use of cartography technicals, inclination angle and direction measures; stratigraphic, tectonic, petrographic and paleontological approaches.
2002 1 week	Geology of Normandie (Laize valley, Calvados, France): sedimentology, stratigraphy, tectonic, paleontology and metamorphism.

ARCHAEOLOGICAL EXPERIENCE

2004 2 weeks	Guided tours of archaeological sites (Mexico): <ul style="list-style-type: none"> • Aztec site of Teotihuacan and Cuicuilco (Mexico D.F.), Xochicalco and Tepoztlan (state of Morelos). • Zapotec site of Monte Alban (state of Oaxaca). Supervision: archaeologists of the University of Mexico (UNAM).
2003 3 weeks	Archaeological excavation of a gallo-roman necropolis on the Hôpital Avicennes (Bobigny, France): excavation of pits and graves. Supervision: Yves le Béchennec (archaeologist).

LINGUISTIC AND COMPUTING QUALIFICATIONS

Operating systems and programming languages	<ul style="list-style-type: none"> • Windows, Unix. • Fortran, Matlab, LaTeX, html.
Basic & geophysical cartography softwares	<ul style="list-style-type: none"> • Word, Excel, Powerpoint, Adobe Photoshop and Illustrator. • Wumap, Grapher, Surfer.
Languages	<ul style="list-style-type: none"> • English: Good working knowledge (written and spoken). • Spanish: Good knowledge (stay of 6 months in Mexico from february to july 2004). • German: Basic knowledge. • Russian: Scolar notions.

OTHER SKILLS

Publication	Pétronille M., A. Goguitchaichvili, L. M. Alva-Valdivia, J. Rosas-Elguera, J. Urrutia-Fucugauchi and M. Rodriguez Ceja, <i>Paleomagnetism of Ar-Ar dated lava flows from the Ceboruco-San Pedro volcanic field (Western Mexico): Evidences for the Matuyama-Brunhes transition precursor and a fully reversed geomagnetic event in the Brunhes chron</i>, Journal of Geophysical Research - Solid Earth, 110, 2005.
Professional activity	Tutor in Applied Geophysics: supervision of two students, one in second year of D.E.U.G. (december 2005) and one in first year of Master (june 2006).
Hobbies	Archaeology and paleontology, rocks and minerals collection, geology, travels, cinema, music (3 years of piano), drawing and sport (badminton).