Dr. Yann Berquin

Background

2010–2014 PhD at Université de Grenoble I — Grenoble, France
School of earth, Space and Environmental Sciences.
This thesis explores planetary electromagnetic (radar) remote sensing.

2012–2013 Jet Propulsion Laboratory — Pasadena, CA
Young researcher as a PhD student. Radar data inversion to recover planetary surface reflectivity.

May 2010–July 2010 Grenoble Institute of Planetology and Astrophysics, IPAG — Grenoble, France
Research engineer. Assessment of sounding radar performances based on statistical analysis for a major ESA space mission.

2008–2009 French Institute of Petroleum, IFP — Paris, France
Master in geophysics.

March 2008–August 2008 Korea Institute of Geosciences and Mineral Resources, KIGAM — Daejeon, Korea
Research intern.

June 2007–August 2007 Grenoble Institute of Earth Sciences, ISTerre — Grenoble, France
Research intern.

2005–2008 Grenoble Institute of Technology, INPG — Grenoble, France
Master in applied physics.

Fall 2007 University of Toronto — Toronto, Canada
Exchange student.

Research interests

Inverse problems and data assimilation in geophyics and planetary exploration
Remote sensing, planetary geophysics and field robotics
Inversion of far field waveforms for shape reconstruction
Signal treatment and radar
Computational electromagnetics and geophysics

Current projects

As a postdoc, I am currently involved in a BMBF project on determining the soil compaction status and soil properties from vibration data during the use of excavator-mounted soil compactors. Industrial partner MTS, Hayingen.

Address, Phone, Fax, Email

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