

Lorenzo Perozzi

contact

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languages

italian mother tongue
french & english fluent
willing to learn new
languages

skills

Data integration
Data analysis
Data visualization
Scientific writing
Matlab (advanced)
Python (intermediate)
VCS (basic)
HTML5 and CSS
(intermediate)

personal interests

Sport (cycling, tennis,
soccer, ski)
Web design (liamg.ca web
site, mbmssolution.com
flyers and exhibition booth)
Urban planning

summary

Large academic experience in processing, integration and visualization of geological and geophysical data. I am interested in data analysis, geostatistics and statistics applied to natural resources and environmental problematics. Keen to develop an international career.

education

- 2010–Now **PhD** Earth Sciences INRS - Centre Eau Terre Environnement
Reservoir characterization for CO₂ sequestration.
In this thesis I extensively used data integration tools to characterize a geological site for CO₂ Capture and Storage (CCS) as a technology to mitigate global warming.
- 2008–2010 **MSc** Earth Sciences INRS - Centre Eau Terre Environnement
Using stochastic crosshole seismic velocity tomography and bayesian simulation to estimate Ni Grades: case study from Voisey's Bay, Canada.
In this thesis a stochastic approach for the seismic tomography data inversion has been useful to image massive sulphide geometry between wells. In addition, a bayesian approach has been used into the estimations of Ni grades.
- 2005–2007 **MSc** Engineer Geologist University of Lausanne
Geophysical and geochemical characterization of a waste site.
In this thesis a series of tomographically inverted surfaced-based electrical resistivity profiles, indicate that potential contaminant of the landfill outflows would predominantly occur along an unexploited extension of the gravel deposit.
- 2002–2007 **BSc** Geology University of Lausanne

experience

- 2006-2007 **University of Lausanne** Lausanne, Switzerland
Teacher Assistant
GIS specialist, GIS vectorisation of Swiss Geological Maps, in charge of information technology and project manager.
- 2005 **Leoni Gysi Sartori SA** Lugano, Switzerland
Internship as geotechnical field collaborator
Exploration field surveys, maps and geological sections elaboration.
- 1999-2005 **Lifeguard** Switzerland
Summer jobs as lifeguard in various swimming pools.

awards

- 2011 **Best M.Sc thesis** INRS - Centre Eau Terre Environnement
2009 **Outstanding Student Presentation** Quebec Exploration Conference, Quebec City

professional activities

2011	GeoHydro2011 <i>Member of the organizing committee</i>	Quebec City, Canada
2009-2013	AHQ - Hydrogeophysical Association of Quebec <i>Member of the organizing committee</i>	Quebec, Canada
2010	JSTE - Earth and Environmental science day <i>Member of the organizing committee</i>	Quebec City, Canada
2008 - Now	SEG and EAGE student chapter <i>Co-founder and committee member</i>	INRS - ETE

publications

article in peer-reviewed journal

Using Stochastic Crosshole Seismic Velocity Tomography and Bayesian Simulation to Estimate Ni Grades: Case Study from Voisey's Bay, Canada
Voisey's Bay, Canada

L. Perozzi, E. Gloaguen, S. Rondenay, G. McDowell

Journal of Applied Geophysics 78.Special Issue (2012) pp. 85–93. 2012

Detection and characterization of preferential flow paths in the downstream area of a hazardous landfill

L. Perozzi, K. Holliger

Journal of Environmental and Engineering Geophysics 13.4 (2008) pp. 343–350. 2008

international peer-reviewed conferences/proceedings

Preparatory work for the seismic monitoring of CO₂ storage at a prospective site in the St. Lawrence Lowlands, Canada

L. Perozzi, B. Giroux, R. Kofman, D. Schmitt

76th European Association of Geoscientists and Engineers Conference and Exhibition - Amsterdam, Netherland, 2014

Ultrasonic measurements and VSP modeling of Potsdam group under CO₂ saturations

L. Perozzi, B. Giroux, R. Kofman, D. Schmitt

IAEGHG - Combined Monitoring and Environmental Research of CO₂ Storage, Canberra, Australia, 2013

Seismic wave attenuation of Potsdam sandstones under CO₂ flow: A preliminary appraisal

L. Perozzi, B. Giroux, G. Rubino, K. Holliger, D. Schmitt

CGU General Assembly, Banff, Alberta, Canada, 2012

Using stochastic borehole seismic velocity tomography and Bayesian simulation to estimate Ni, Cu and Co Grades

L. Perozzi, E. Gloaguen, S. Rondenay, A. Leite, G. McDowell

72nd European Association of Geoscientists and Engineers Conference and Exhibition - Incorporating SPE EUROPEC, Barcelona, Spain, 2010

Using stochastic borehole seismic velocity tomography and Bayesian simulation to estimate Ni, Cu and Co Grades

L. Perozzi, E. Gloaguen, S. Rondenay, A. Leite, G. McDowell, R. Wheeler

Geophysical Research Abstracts – EGU General Assembly, Vienna, Austria, 2010

Estimations des teneurs de Ni, Cu et Co à l'aide de la tomographie sismique stochastique

L. Perozzi, E. Gloaguen, S. Rondenay, A. Leite, G. McDowell, R. Wheeler

Quebec Exploration Geosciences Exhibit., Quebec City, Quebec, Canada, 2009