

Curriculum Vitae

(29/07/2010)

Franck Valli

French, 32 years old
Married



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Industry experiences (4 years)

Since 11/2007: Director of VALLI CONSULTING GEOLOGIST S.A.R.L. (www.valli-consulting-geologist.com), a consulting company specialised in Mining exploration.

Since 05/2010: Project Chief geologist at EASTMAIN RESOURCES LIMITED. Main achievements (in progress): structural mapping, soil sampling, exploration trenches opening, planning and conduction of a drilling campaign; Clearwater property, Quebec.

04/2010: Consultant geologist at URANIA LIMITED. Main achievements: maps and sections production.

03/2010 - 11/2009: Consultant geologist at NEWMONT MINING CORPORATION. Main achievements: An outline of the Moroccan mining sector (under process).

12/2009: Structural geologist (Consultant) at GOLD FIELDS LIMITED. Main achievements: mapping structures on a Peruvian gold deposit (under process).

11/2009 - 08/2009: Structural geologist at URANIA LIMITED. Main achievements: Mapping and sampling of an Uranium property located in Switzerland. MapInfo compilation of data acquired by 5 geologists during the 2009 field season.

06/2009: Structural geologist (Consultant) at GOLD FIELDS LIMITED. Main achievements: Tectonic, Magmatic and Porphyry/Epithermal Au and Cu-Au Mineralisations Review For Colombia.

05/2009 - 10/2006: Exploration geologist (Consultant) at ODYSSEY RESOURCES LIMITED and its subsidiary the CANADIAN MINING COMPANY.

Top responsibilities:

- Field work related to the exploration activities.
- Supervision of field teams and contract crews to undertake different phases of the field programmes.
- Report writing and verbal reporting to senior management, on all activities undertaken.
- Assist in aspects of the target generation and assessment of project submittals.
- Maintain the Company permit database.
- Maintain good relationships with regulatory authorities.

Main Achievements:

- Establishment and supervision of 2 successful drilling campaigns and 1 geophysical survey.
- Generation of several base and precious metals targets followed by permits acquisition.
- Supervision of 2 scoping studies.

10/2007: Structural geologist (Consultant) at NEWMONT MINING CORPORATION. Major achievements: Review of the geometry and geological settings of the circum Pacific subducting plates.

Academic experiences (5 years)

09/2006 – 09/2005: **Post-doctoral fellow** at the University of Hong Kong. Title: Characterisation and role of the extensional deformation in the Center and South Tibet.

06/2005 – 09/2001:

- **Ph. D** with the Highest Distinction at the Institut de Physique du Globe de Paris (IPGP).
Thesis Title: Lithospheric strike-slip shear zones in the Western part of Tibet: Geometry, age, total offset, and long term slip rate on the Karakorum fault).
- « Attaché Temporaire d'Enseignement et de Recherche » (**Assistant Professor**) at Paris 7 university.

Educational background

06/2001 – 09/2000:

- "DEA" (equivalent to **M.Sc.**) with honours at the Claude Bernard University (Lyon, France).
- Third year of "**Magistère**" with Honours at the "Ecole Normale Supérieure de Lyon" (it is a leading French institution for training scientists with competition for the entrance).

07/2009 - 04/1999: **Research project**. Determination of the paleo-Ph from Boron isotopes.

06/2000 – 09/1998:

- "Maitrise and Licence des Sciences de la terre" (equivalent to **Bachelors degree** with honours in Earth Sciences) at the Claude Bernard University (Lyon, France).
- "Magistère" at the "Ecole Normale Supérieure de Lyon".

06/1998 – 09/1996: "DEUG Sciences de la terre" obtained with honours (rank first) (equivalent to **two years of a degree**) at the Jean Monnet University (Saint Etienne, France).

1996: "Baccalauréat Scientifique" (**Final High School Certificate** obtained with Honours) at the "Lycée Claude Fauriel," (Saint Etienne, France).

Areas of expertise

- **Tectonic**
 - Mapping at different scales and in 3D (using seismic profiles and/or drillhole data if possible); characterization of the finite deformation field; foliation and lineation trajectories (kinematic indicators); analysis of brittle features; satellite imagery; digital elevation models.
- **Petrology**
 - Macroscopic and microscopic identification of minerals.
- **Drilling**
 - Drilling campaigns setting up, supervision, and data interpretation (Reverse Circulation and Core drilling).
- **Geophysics**
 - Setting up, supervision, and data interpretation of geophysical campaigns (Induced Polarisation method) dedicated to metal-bearing ore exploration.
- **Feasibility study**
 - Conduction of two scoping studies on a copper - silver mine open pit project located in the Moroccan Anti Atlas (Alous Project). This study was undertaken in collaboration with the Scott & Wilson Mining group.
- **Reporting**
 - Writing technical reports compliant with the JORC or NI 43-101 standards.

- **Imagery**
 - Satellite image processing: Landsat 7, Ikonos, Spot, and Aster. Used together with DEM (SRTM) and seismic profiles to produce geological maps and sections.
- **Software skill**
 - Systems DOS (Windows), MacOS and Unix (Solaris Sun).
 - Microsoft office softwares.
 - Geographic Information System (GIS): ArcView, MapInfo (with Discover add-on), ENVI, Mapublisher.
 - Image processing and Teledetection: IDL, ENVI, DIMPLE, MacDem, GMT, Adobe Photoshop, Adobe Illustrator, Mapublisher.

Field Experience

- Current: **Quebec**, Structural mapping of two gold projects.
- 12/2009: **Peru**, to work on the structure of a gold deposit.
- 11/2009 - 08/2009: **Switzerland** (Alps region), to map and sample an Uranium property.
- 05/2009 - 01/2007: **Morocco** (mainly in the Anti Atlas and High Atlas), to evaluate the potentialities of several uranium, base and precious metals properties.
- 12/2006 - 10/2006: **Turkey** (central part), to better characterised the Resources and the potential of a gold property.
- 06/2006 - 05/2006: south **Tibet** (Lhasa - Saga (North of the Qomolangma) - Bangong Nujiang suture zone), to determine the age and the amount of extension absorbed by the south Tibetan NS grabens.
- 02/2004: **Gawler Craton, Australia**, to measure the amount of displacement, and the apparent geothermal gradient along a Proterozoic shear zone.
- 10/2003: south **Tibet** (Lhasa - Zanda (Sutlej basin)), to explore the westward extend of the active Karakorum fault to find evidences for large scale dextral strike-slip deformation.
- 10/2002 - 09/2002: south and west **Tibet** (Golmud - Lhasa - Shiquanhe), to find evidences for large scale dextral shearing along the Yarlung Tsangpo suture zone.
- 10/2001 - 09/2001: east **Tibet** (Yecheng - Karakorum fault), to determine the age, the amount of deformation, and the long-term slip-rate accommodated by the Karakorum fault zone.
- 09/2000 - 06/2000: **Canadian Shield** (Quetico Subprovince, Ontario), to determine the composition and geological setting for the emplacement of an Archean mafic to ultramafic complex.
- 07/1999 - 06/1999: **French Alps**, Mapping of the Belledonne and Grandes Rousses massifs, to update the Vizille geological map ("GeoFrance 3D" project).

Supervision and Teaching

05/2009 - 01/2007: **Director and exploration manager** of the Canadian Mining Company.

09/2006 – 09/2005: **Teaching and supervision** of the following modules at the Hong Kong University: Structural Geology (module n°EASC0108), field camps in Hong Kong island and in Tibet (module n°EASC0101), "Advanced Topics in Geosciences" (Structural Geology, module n°EASC3202).

06/2005 – 09/2004: **Supervision of a research project** conducted by an undergraduate student (Laurent Vanoudheusden).

Teaching “General Geology” to students preparing the “CAPES” and “Agrégation” exams (French competitive examinations for getting a teaching position in high schools), and “Tectonic” to undergraduate students.

2004, 2003 and 2002: **Supervision of an annual field camp** in the French Alps with students preparing a M.Sc. degree in Earth Sciences.

06/1996 – 09/1995: **Teaching Judo** to 6 - 16 years old kids at Arts Martiaux Sorbiers, chemin de la Feuillat 42290 Sorbiers.

Languages

- French (mother tongue).
- English (excellent).
- Arabic (intermediate)

Driving License

- French driving license B and international driving license.

Publications

Li HB., **Valli F.**, Arnaud N., Chen SY., Xu ZQ., Tapponnier P., Lacassin R., Si JL., Qiu ZL., **2008**. Rapid uplifting in the process of strike - slip along the Karakorum fault zone in western Tibet: Evidence from Ar-40/Ar-39 thermochronology, ACTA PETROLOGICA SINICA, Volume: 24, Issue: 7, Pages: 1552-1566.

Valli F., Leloup P.H., Paquette J-L., Arnaud N., Li H., Tapponnier P., Lacassin R., Guillot S., Liu D., Deloule E., Xu Z., Mahéo G., **2008**. New U-Th/Pb constraints on timing of shearing and long-term slip-rate on the Karakorum fault, *Tectonics*, VOL. 27, TC5007, doi:10.1029/2007TC002184.

Valli F., Arnaud N., Li H., Leloup P.H., Sobel E., Mahéo G., Lacassin R., Guillot S., Li H., Tapponnier P. and Z. Xu, **2007**. 20 million years of continuous deformation along the Karakorum fault, Western Tibet: a thermochronological analysis. *Tectonics*, 26, TC4004, doi:10.1029/2005TC001913.

Mahéo G., **Valli F.**, Leloup P. H., Lacassin R., Arnaud N., Paquette JL., Fernandez A., Li Haibing, Farley, K. A., Tapponnier P., **2007**. Post 4 Ma initiation of normal faulting in southern Tibet. Constraints from the Kung Co half-graben. *Earth and Planetary Science Letter* 256, 233-243.

Li H., **Valli F.**, Dunyi L., Zhiqin X., Jingsui Y., Arnaud N., Tapponnier P., Lacassin R., Songyong C., Xuexiang Q., **2007**. Initial movement of the Karakorum fault in western Tibet: constraints from SHRIMP U-Pb dating of zircons. *Chinese Science Bulletin*, Vol. 52, No. 8, 1089-1100.

Li H., **Valli F.**, Xu Z., Yang J., Tapponnier P., Lacassin R., Chen S., Qi X., Chevalier ML., **2006**, Deformation and tectonic evolution of the Karakorum fault, western Tibet. *GEOLOGY IN CHINA*, Vol.33, No. 2 P.239-255.

Lacassin R., **Valli F.**, Arnaud N., Leloup P. H., Paquette JL., Li Haibing, Tapponnier P., Chevalier ML., Guillot S., Maheo G., Xu Zhiqin, **2003**. Reply to Comment on "Large-scale geometry, offset and kinematic evolution of the Karakorum fault, Tibet". *Earth and Planetary Science Letter*, 229 (1-2), 159-163, 2004.

Lacassin R., **Valli F.**, Arnaud N., Leloup P.H., Paquette JL., Li Haibing, Tapponnier P., Chevalier ML., Guillot S., Maheo G., Xu Zhiqin, **2003**. Large-scale geometry, offset and kinematic evolution of the Karakorum Fault, Tibet. *Earth and Planetary Science Letter*, 219, 255-269, 2004.

Valli F., Guillot S., Hattori K. H., **2004**. Source and tectono-metamorphic evolution of mafic and pelitic metasedimentary rocks from the central Quetico metasedimentary belt, Archean Superior Province of Canada. *Precambrian Research*, 132 (1-2): 155-177.

Telouk P., Beck P., **Valli F.** and Albarede F. Using laser ablation ICP-MS at 157 nm for isotopic ratios. Geostandard newsletter, Accepted.

Valli F., Guillot S., Hattori K.H., **2001**. Origin of "ultramafic" rocks in the Jean Lake area, Quetico metasedimentary belt: Contribution of komatiitic basalt. In Harrap, R.M. and Helmstaedt, H.H. (eds)., 2001 Western Superior Transect Seventh Annual Workshop. *Lithoprobe Report 80*, p.36-42.

Valli F., Guillot S., Hattori K.H., **2001**. Régime thermique à l'Archéen en contexte d'accrétion et de subduction. *Géologie Alpine*, 77, 41-112.

Submitted publications

Arnaud N.O., Leloup P.H., Paquette J.L., **Valli F.**, Guillot, S., Li H., Xu Z., Lacassin R., and Tapponnier P., 2003. Did west-central Tibet record Cretaceous deformation and early stages of India-Asia collision? Submitted at *Geology*.

Award

Fall 2003: **American Geological Union Outstanding Student Paper Award**: reported in Eos, 30 mars 2004 (vol. 85, no 13, p. 128). www.agu.org/sections/tectonophysics/students.html.

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Comment written on F. Valli's work:

www.linkedin.com/profile?viewProfile=&key=19678638&trk=tab_pro#recommendations

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