

Curriculum Vitae

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Franck Valli

French, 32 years old
Married



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Industry experiences

Since May 2010: Project Chief geologist (Consultant) at EASTMAIN RESOURCES INC., Clearwater property, Quebec. Main achievements: Supervision and conduction of exploration programs. Management of teams made of 25 to 35 personals. Exploration activities undertaken in 2011 include mapping, regional reconnaissance work assisted by helicopter, trenches opening, soil and rock sampling, core drilling (25,000 m), establishment of 3D numerical models, writing of 43-101 reports, etc.

Since November 2007: Director of VALLI CONSULTING GEOLOGIST S.A.R.L., a consulting company specialized in the exploration of mineral resources (www.valli-consulting-geologist.com). My expertise lies mainly in my ability to determine mineralizations geometry. I collect geological and structural observations on surface that I coupled with data from the scientific literature, the geophysical surveys, and from drilling. I utilize the most recent 3D GIS software to interpret data efficiently.

April 2010: Geologist (Consultant) at URANIA LTD. Main achievements: maps and sections production.

March 2010 – November 2009: Geologist (Consultant) at NEWMONT MINING CORP. Main achievements: An outline of the Moroccan mining sector.

December 2009: Structural geologist (Consultant) at GOLD FIELDS LTD. Main achievements: mapping structures on a Peruvian gold deposit.

November 2009 – August 2009: Structural geologist (Consultant) at URANIA LTD. 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.

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

May 2009 – October 2006: Exploration geologist (Consultant) at ODYSSEY RESOURCES LTD and its subsidiary the CANADIAN MINING COMPANY. Top responsibilities: Field work related to the exploration activities; Supervision of field teams; report writing and verbal reporting to senior management; assist in the exploration target generation; maintain the Company permit database; Maintain good relationships with regulatory authorities. Main Achievements: Establishment and supervision of 2 drilling campaigns (RC) and 1 geophysical survey (IP); generation of several base and precious metals targets followed by permits acquisition; supervision of 2 scoping studies.

October 2007: Structural geologist (Consultant) at NEWMONT MINING CORP. Main achievements: Review of the geometry and geological settings of the circum Pacific subducting plates.

Academic experiences

September 2006 – September 2005: **Post-doctoral fellow** at the University of Hong Kong. Title: Characterization and role of the extensional deformation in the Central and South Tibet.

June 2005 – September 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

June 2001 – September 2000:

- "DEA" (equivalent to **M.Sc.**) with honors (rank second) at the Claude Bernard University (Lyon, France). Thesis Title: Source and tectono-metamorphic evolution of mafic and pelitic metasedimentary rocks from the central Quetico metasedimentary belt, Archean Superior Province of Canada.
- Third year of "**Magistère**" with honors at the "Ecole Normale Supérieure de Lyon" (it is a leading French institution for training scientists with competition for the entrance).

June 2000 – September 1998:

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

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

Areas of expertise

- **Mineral Resources**

Exploration and development of mining projects. Planning, supervision, conduction and interpretation of exploration campaigns results dedicated to the search of metal-bearing mineralizations. Writing technical reports compliant with the 43-101 Canadian national instrument.

- **GIS**

Handling and construction of 3D geological databases. Good knowledge of Mapinfo, Discover 3D, Leapfrog Mining 3D, Mapublisher, Geographic Imager, IDL, ENVI, and ArcView software.

- **Drilling**

Planning, supervision, conduction of both core and reverse-circulation drilling programs. Good Knowledge of logging techniques and software (Geotic). Data 3D modeling and interpretation.

- **Tectonic**

Structural mapping at different scales and in 3D - Characterization of the finite deformation field, foliation, lineation, and kinematic indicators - analysis of ductile and brittle structures – Acquisition and interpretation of drill cores structural data – Ability to link local observations with global geodynamic.

- **Petrology**

Macroscopic and microscopic identification of minerals - Determination of the Pressure-Temperature conditions which are contemporaneous with the deformation – Conventional thermobarometry (cationic exchanges and petrogenetic grids) – Modelisation based on multivariant equilibria (Thermocalc).

- **Geochronology**

In situ U-Th/Pb dating of zircon and monazite crystals with SX100 Electronic Microbeam, SHRIMP II (Beijing), Ionic Microbeam Cameca 1270 (Nancy), and Laser Ablation LA-ICPMS (ENS-Lyon). Dating conducted directly on thin sections to preserve petro-structural information. Ar/Ar dating on K-feldspar, Biotite, and Muscovite (VG3600 mass spectrometer) to constrain the middle to low temperature tectono-metamorphic history of studied samples.

Field Experience

- *Since April 2010:* **Quebec**, Project manager of a gold – tellurium property.
- *December 2009:* **Peru**, Structural mapping of a gold - copper deposit.
- *November 2009 – August 2009:* **Switzerland** (Alps region). Mapping and sampling of two Uranium and one gold properties.
- *May 2009 – January 2007:* **Morocco** (all regions except the Rif). Evaluation of the potentialities of several base metals, precious metals, and uranium properties.
- *December 2006 – October 2006:* **Turkey** (central part). Characterization of the Resources and potentialities of a gold property.

- *June 2006 – May 2006*: South **Tibet** (Lhasa - Saga (North of the Qomolangma) - Bangong Nujiang suture zone). Determination of the age and of the amount of extension absorbed by the south Tibetan NS grabens.
- *February 2004*: **Gawler Craton, Australia**. Measure of the amount of displacement, and of the apparent geothermal gradient along a Proterozoic shear zone.
- *October 2003 – September 2001*: South, west and east **Tibet** (3 missions of 5 weeks). Determinations of the total offset, lifespan and slip rate of the Karakorum fault zone.
- *September 2000 – June 2000*: **Canadian Shield** (Quetico Subprovince, Ontario). Determination of the composition and geological setting of an Archean mafic to ultramafic complex.
- *July 1999 – June 1999*: **French Alps**, Mapping of the Belledonne and Grandes Rousses massifs, to update the Vizille geological map (“GeoFrance 3D” project).

Administrative responsibilities

2010 - 2007: Member of the board of directors of the Canadian Mining Company.

2005 - 2002: Conducted the procedure to enable the venue in France, and at the Institut de Physique du Globe de Paris, of Mister Haibing LI (Chinese) for his Phd thesis, and of Miss Jing LIU (Chinese) for her Post – Doctorate.

Languages

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

Scientific Publications

- Aitchison J. C., Arnaud N., Xiaoping X., Leloup P. H., **Valli F.**, Ali J. R., Wilde S., Lopu Gangri fault: evidence for late Miocene extension in western central Tibet, **submitted** to *Earth and Planetary Science Letter*.
- Leloup P.H., Arnaud N.O., Mahéo G., Paquette J.L., Guillot, S., **Valli F.**, Li H., Xu Z., Lacassin R., Tapponnier P., Successive deformation episodes along the LungMu Co zone, west-central Tibet, **accepted** to *Gondwana Research*.
- 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.
- 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*, Vol. 24, Issue 7, pp. 1552-1566.
- Valli F.**, Arnaud N., 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*, Vol. 26, TC4004, doi:10.1029/2005TC001913.
- Mahéo G., Leloup P. H., **Valli F.**, 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*, Vol. 256, pp. 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, pp. 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, pp. 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 (2004a) Reply to Comment on « Large-scale geometry, offset and kinematic evolution of the Karakorum fault, Tibet », *Earth and Planetary Science Letter*, Vol. 229, Issue 1-2, pp. 159-163.
- Lacassin R., **Valli F.**, Arnaud N., Leloup P.H., Paquette JL., Li Haibing, Tapponnier P., Chevalier ML., Guillot S., Maheo G., Xu Zhiqin (2004b) Large-scale geometry, offset and kinematic evolution of the Karakorum Fault, Tibet, *Earth and Planetary Science Letter*, Vol. 219, pp. 255-269.

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*, Vol. 132, Issue 1-2, pp. 155-177.

Award

Valli F. (2004) American Geological Union Outstanding Student Paper Award, bestowed from the section « Tectonophysics » at the 2003 fall AGU meeting for a presentation entitled « New age constraints on the evolution of the Karakorum Fault, West Tibet », *Eos*, Vol. 85, no 13, p. 128, www.agu.org/sections/tectonophysics/students.html

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Comment written on F. Valli's work:

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