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### **Birthday**

July 16 1981

### **Education**

**Diploma:** Empirical Sciences, Sardaran Azerbaijan pre-university, Oroumieh, 1998, GPA: 17

**B.Sc:** Geology, Oroumieh University, Oroumieh- Iran, March 2003, GPA: 17.11

**M.Sc:** Economic Geology, Tarbiat Modares University, Tehran- Iran, October 2006, GPA: 18.02 (top student)

**PhD:** Economic Geology, Tarbiat Modares University, Tehran- Iran, GPA; 18

### **Languages**

English: fluent (international IELTS score: 6.5)

### **Objective and interests**

I am strongly interested in economic geology, orogenic and intrusion-related gold deposits, ore genesis. geochemistry of ore deposits, fluid inclusion, isotope geochemistry

### **Computer Skills**

Igpetwin 2001 software

Newpet software  
Adobe illustrator  
AutoCAD  
ArcGIS 9.3  
Log Plot (All Versions)  
Surfer (All Versions)  
ENVI (All Versions)  
Fluid inclusion softwares (MAC Flincor LABSPEC)

### **M.Sc. Thesis**

Mineralogy, geochemistry, and fabrics of gold mineralization in ductile to brittle shear zones of Qolqoleh deposit, southwest of Saqez, northwestern Iran. Supervisors: Dr. Ebrahim Rastad and Prof. Hou Zengqian.

### **PhD thesis**

Ore controls, age, genesis and type of gold mineralization style in the Zartorosht deposit, southeast of Jiroft, southern Sanandaj-Sirjan zone. Supervisors: Dr. Ebrahim Rastad Prof. Richard J. Goldfarb, Prof. David Lentz.

### **Academic Courses Studies**

Ore microscopy, Principles of mine extraction, Analytical procedures of mineral sample, Geophysics (operation, processing, & interpretation), Remote sensing (I), Isotope Geochemistry, Sedimentary ore deposits, Remote sensing (II), Igneous and metamorphic ore deposits, Mineral resources of Iran and their origin, Fluid inclusion, Petrofabric, Microtectonics, Staratabound and Stratiform ore deposits, Advanced isotope geochemistry, Remote sensing (III), Metallogeny and exploration of specific metals, Magmatic sulfide ore deposits, Geochemistry of hydrothermal fluids.

### **Work Experience**

- 3 months training period in Aghdarreh gold deposit, northwestern Iran together with international Rio Tinto exploration experts. Summer, 2002.
- 2 years Cooperation with Chinese explorationists (e.g. Jun Angeles, Dung) in Kurdistan gold project exploration, 2005-2006
- 6 months work experience in geochemical exploration for gold in National Geographic Database (NGDIR), Geological Survey of Iran, 2006.
- 1 year Cooperation with Geomatics management, Geological Survey of Iran for

classification of ore deposits models particularly for gold in various structural-exploration zones of Iran, 2006.

- 2 years Cooperation with Pishgaman Sanat Foolad consulting exploration Co. for the exploration of iron ore deposits in Iran, 2008-2009.
- 4 years work experience in the National Iranian Copper Industries Company (NICICO) for porphyry copper exploration including field work investigation together with the preparation of large-scale geologic maps, satellite image processing and interpretation.
- 2 years cooperation with Zarnab consulting exploration Co. as a senior geologist for the preparation of large-scale (1:1000 and 1:5000) geological maps and Porphyry Copper exploration, from 2009 to continued.
- 1 year cooperation with ThranPadir consulting exploration Co. as a senior geologist (supervisor) for the preparation of large-scale (1:1000 and 1:5000) geological maps and Porphyry Copper exploration, from 2011 to continued.

### **Awards and honoraries**

- Excellent student of Faculty of Basic Sciences, Tarbiat Modares University, 2006.
- 2000 US \$ research award from the Geochemical Society of Europe in order to present the results of geochemical investigations in Goldschmidt Conference, Cologne, Germany, 2006.
- 5000 US \$ student research grant award from the Society of Economic Geologists, 2011.

### **membership in professional societies**

- Senior member of International Union of Geological Sciences (IUGS) from 2006 to present.
- Active membership in the Geochemical Society of Europe from 2006 to present.
- Member of Society of Economic Geologists from 2007 to present.
- Senior member of IGCP international project in Iran for the exploration of gold deposits in Zagros orogen as a part of Alp-Himalaya belt from 2011 to present.
- Membership in editorial board of the Ore Geology Reviews from 2010 to present.
- Membership in Geological Society of Iran for 2001 to present.

### **Publications**

**Aliyari, F., Rastad, E., Mohajjel, M., and Shamsa, M.J., 2005a, Deformation, alteration and their role in the Qolqoleh shear zone type gold mineralization,**

southwest of Saqez, northwestern Iran. 24th national geosciences conference, Geological Survey of Iran, oral presentation.

**Aliyari, F.,** Rastad, E., and Shamsa, M.J., 2005a, Geochemistry of major and trace elements and their application in exploration of Qolqoleh shear zone type gold mineralization, southwest of Saqez, northwestern Iran. 24th national geosciences conference, Geological Survey of Iran, poster presentation.

**Aliyari, F.,** Rastad, E., and Shamsa, M.J., 2006a, Geochemical behaviour of REE elements and their application in exploration of Qolqoleh shear zone type gold mineralization, southwest of Saqez, northwestern Iran. 25th national geosciences conference, Geological Survey of Iran, oral presentation.

**Aliyari, F.,** Rastad, E., and Shamsa, M.J., 2006b, Study of fluid inclusion and ore-forming fluid characteristics of Qolqoleh shear zone type gold mineralization, southwest of Saqez, northwestern Iran. 25th national geological association conference of Iran, oral presentation.

**Aliyari, F.,** Rastad, E., 2007a, Geochemistry of REE and trace elements and their application in exploration of Qolqoleh orogenic gold deposit, northwestern Iran. 17th international Goldschmidt conference, Cologne, Germany, p.13.

**Aliyari, F.,** Rastad, E., and Zengqian, H., 2007b, Orogenic Gold Mineralization in the Qolqoleh Deposit, Northwestern Iran. *Resource Geology*, v.57, 3: 269-282.

**Aliyari, F.,** Rastad, E., and Chen, Y., 2008a, Fluid Inclusion Characteristics of the Qolqoleh Gold Deposit, Northwestern Iran. 33rd international geological conference Oslo, Norway. Oral presentation.

Rashidnejad Omran, N., Rastgoo Moghadam, R., **Aliyari, F.,** Rastad, E., and Mohajjel M., 2008b, Orogenic Gold Mineralization in the Zartorosht Deposit, Southern Sanandaj-Sirjan zone, South east of Iran. 33rd international geological conference Oslo, Norway. Oral presentation.

**Aliyari, F.,** Rastad, E., and Arehart, G.B., 2009, Geology and Geochemistry of D-O-C Isotope Systematics of the Qolqoleh Gold Deposit, Northwestern Iran: Implications for Ore Genesis. *Ore Geology Reviews*, v. 36, 306-314.

**Aliyari, F.,** Rastad, E., and Goldfarb, R.J., 2010a, Zartorosht gold deposit: orogenic gold deposit or intrusion-related gold system? Textural and stable O and S isotope evidences. 27th Symposium on Geosciences and the 13th Symposium in Geological Society of Iran, 20-22 Feb, Geological Survey of Iran.

**Aliyari, F.,** Rastad, E., and Mohajjel, M., 2010, Gold deposits in the Sanandaj-Sirjan metamorphic belt, Iran: orogenic gold deposits or intrusion-related gold

systems? SEG Conference, October 2-5, Keystone, Colorado, USA, Oral presentation.

**Aliyari, F.,** Rastad, E., Mohajjel, M., and Goldfarb, R.J., 2011a, Gold deposits in the Sanandaj-Sirjan Zone: orogenic gold deposits or intrusion-related gold systems? *Resource Geology*, accepted paper.

**Aliyari, F.,** Rastad, E., and Lentz, D.R., 2011b. Characteristics of gold-bearing hydrothermal quartz veins in the Zartorosht gold deposit, southern Sanandaj-Sirjan metamorphic belt, southeast Iran: evidence from EPMA, SEM-CL and CL data. *Canadian Mineralogist*, accepted paper.

**Aliyari, F.,** Rastad, E., and Goldfarb, R.J., Abdollahi Sharif, J., 2011c, Geochemistry of REE and trace elements of hydrothermal alteration at Qolqoleh deposit, northern Sanandaj-Sirjan, northwest Iran. *Journal of Geochemical Exploration*, accepted paper.

**Aliyari, F.,** Rastad, E., and Goldfarb, R.J., Lentz, D.R., Alteration geochemistry and stable insights to the Zartorosht gold deposit, southern Sanandaj-Sirjan metamorphic belt, southeast Iran. Prepared manuscript for *Economic Geology*.

**Aliyari, F.,** Rastad, E., and Chen, Y., Petrography, Microthermometric and Laser Raman Spectroscopic Analysis of Hydrothermal Fluids from Auriferous Quartz Veins at the Qolqoleh Orogenic Gold Deposit, Northwestern Iran. Prepared manuscript for *Chemical Geology*.

**Aliyari, F.,** Rastad, E., and Goldfarb, R.J., Geology, distribution and classification of gold mineralization styles in Iran-A review. Prepared manuscript.

**Aliyari, F.,** Rastad, E., Yardley, B., Banks, D., and Jiang, S., Ore-forming fluid characteristics at the Zartorosht gold deposit: evidence from fluid inclusion Microthermometry, Raman Spectroscopy, and LA-ICP-MS microanalysis. Prepared manuscript.