

Mohammad Koneshloo

Postdoctoral Researcher at University of Delaware

First Name: Mohammad	Department of Geological Sciences
Last Name: Koneshloo	College of Earth, Ocean and Environment
Date of Birth: April 11, 1976	University of Delaware
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Job Experiences

2013-Present (Oct – Apr)	Postdoctoral Researcher: University of Delaware Subsurface modeling of aquifer systems
2012- 2013 (Jan – Sep)	Research project manager: Classification and modeling the ore of Esfordi Phosphate Mine, Iranian Mineral Processing Center (IMPRC)
2008-2013 (March – Sep)	Assistant Professor and Lecturer: Mining and Petroleum Engineering and Geophysics Department, Shahrood University of Technology and Tehran University. - Integration of geological interpretation into geostatistical simulation of rock facies, Shahrood University of Technology (Research Project)
2012-2012 (Feb – Apr)	Consultant: CESSCO , Geostatistical Estimation on Sari-Guani Gold Deposit, CESSCO
2011-2012 (May - Jan)	Consultant: Arghvan Alloy Ltd. for Faryab Chromite Producer (The biggest Iranian chromite producer)
2009-2011	Board Manager: Iranian Society of Mining Engineering (IR-SME)
2008-2009 (Jan – Feb)	Consultant, Zamin Kav Gostar Ltd., Criteria to stop or continue mineral exportation activities report (<i>Prepared for office of technical affairs of president deputy strategic planning and control</i>).
2003-2007 (Jan – Dec)	Collaboration with AGS-Mineraux (IMERYYS-France), Kaolin deposits of Charentes Basin
1999-2001 (Sep – Sep)	Researcher of Iranian Institute of Mineral Research Application (IIMRA) Working on various projects concerning processing of non-metallic minerals (Zeolite, Kaolin, and Bentonite).

Summer 1998 **Summer Intern:** Research Institute of Forests and Rangelands
Using GIS tools to mapping the rangelands

Summer 1997 **Summer Intern:** Madan Zamin Co Ltd.
Angouran (Zin-Polomb) Mine

Education

2003-2008 **PhD in Mining Engineering**, “Ecole Nationale Supérieur des Mines de Paris”, Lab of
Thesis: CMGD, Ecole des Mines d'Ales, Dec 2008.

Thesis title: *Characterization, Estimation and Modeling of the Kaolin Deposits of Charentes Basin, France* ([Summary](#), [Résumé](#))

2005-2006 **Master of Engineering in Geostatistics**, Centre de Géostatistique, Ecole Nationale
Supérieure des Mines de Paris, CFSG, July 2006.

Thesis title: *Preliminary estimation and Modeling of The Kaolin Deposits of Charentes Basin, France*

1998-2001 **M.Sc. in Mining Engineering** (Mineral exploration Engineering), Mining Engineering
Department of Faculty of Engineering, The university of Tehran ,Tehran ,Iran

Thesis title: *Study in possibility of beneficiation of Aftar's (Semnan) zeolite deposit*

1994-1998 **B.Sc. in Mining Engineering** (Mineral exploration Engineering), Mining Engineering
Department of Faculty of Engineering, The university of Tehran ,Tehran ,Iran

Project title: *Cost estimation of Sartal's (Khorasan state) Andalusite processing mill.*

Courses Taught

Several courses taught at different universities (Shahrood University of Technology, Tehran University and Tarbiat Modares University) and some training organized for industry in Mining Geostatistics and Application of Statistics and Sampling.

MSc program: Geostatistics for Petroleum Reservoir Engineers, Geostatistics for Mining Engineering, Modeling and Simulation. Nonmetallic deposits.

BSc program: Principle of Mineral exploration, Resource/Reserve evaluation and estimation, Industrial minerals, Statistics and probability for geoscientists and mining engineers.

For a complete list please refer to [this webpage](#).

Recent Publications

1. Azad M., Koneshloo M., Kamkar_Rouhani A., Aghajani H., “*Comparison of factorial kriging analysis method and upward continuation filter to recognize subsurface structures – A case study: gravity data from a hydrocarbon field in southeast of Vietnam*”, Accepted paper in Acta Geophysica (Dec. 2014)

2. Khan, M. R., Koneshloo M., Knappett, P., Rajib H., Mailloux, B., Ahmed K., Benjamin C., Harvey C., Van-Geen, A., Michael H., (2014), “*Effect of aquifer heterogeneity on the sustainability of deep groundwater resources in the bengal delta near a mega-city pumping center*”, GSA Annual Meeting in Vancouver, British Columbia (19–22 October 2014).
3. Calhoun K., Koneshloo M., and Michael H., (2014), “*Effects of the geometry of heterogeneous hydraulic conductivity fields on aquifer-ocean exchange processes*”, GSA Annual Meeting in Vancouver, British Columbia (19–22 October 2014).
4. Rezaee H., Mariethoz, G., Koneshloo M., Asghari O., (2013) “*Multiple-point geostatistical simulation using the bunch-pasting direct sampling method*”, Computers & Geosciences, Volume 54, April 2013, Pages 293–308.
5. Rezaee, H., Asghari, O., Koneshloo M., & Ortiz, J. M. (2014), “*Multiple-point geostatistical simulation of dykes: application at Sungun porphyry copper system, Iran*”, Stochastic Environmental Research and Risk Assessment, 28(7), 1913–1927
6. Rezaii H., Asghari O., Koneshloo M., (2011), “*The application of multiple-point geostatistics in the modeling of dike; a case study of Sungun Porphyry Copper*”, IAMG2011, Austria, 2011
7. Koneshloo M., Chiles J. P., “*Reserve Classification Challenges and Modeling of The Kaolin Deposits of Charentes Basin, France*”, IAMG2010, BUDAPEST, 2010
8. Hekmatnedjad A., Koneshloo M., Khodae K., “*Using Disjunctive Kriging, a Nonlinear Estimator in Modeling Distribution of Nitrate in Underground Water, Case Study: Dezfoul-Andimeshk's Aquifer*”, IAMG2010, BUDAPEST, 2010

Supervising

Supervising and Counseling more than 10 M.Sc. thesis and 10 B.Sc. projects in Mining and petroleum reservoir engineering, in Theran and Shahrood Universities.

(To see more details please [click here](#)).

Skills

Computer Skills

- ✓ Geostatistical Software: ISATIS, SGeMS, GSLIB,
- ✓ Programming: Matlab, VBA (for Microsoft office), Python, R
- ✓ Engineering: Surfer, ArcGIS, Datamine
- ✓ General tools: CorelDraw, Microsoft Office Software, GIMP

Languages

- ✓ Persian
- ✓ French
- ✓ English

Affiliations

Member of the IAMG (International Association for Mathematical Geosciences)

Member of the IRSME (Iranian Society of Mining Engineering).

Member of Fanni's Alumni (Alumni of Faculties of Engineering, Tehran University)

Honors and Awards

- ✓ Top ranked student in the PhD study exam (2000)
- ✓ First student in rank M.Sc. examination (1998)
- ✓ Rewarded a scholarship to study for a Ph.D. degree from Ministry of Research, Science and Technology of Iran (2001)
- ✓ Exempt from military service (Elite student privilege, 2002)

References

Holly Michael

Associate Professor of University of Delaware

My postdoc supervisor

hmichael@udel.edu

Michel Duchene

Professor of Paris School of Mine,

Director of my PhD thesis

michel.duchene@mines-paristech.fr

Jean-Paul Chiles

Retired Professor of Paris School of Mine

Director of my MSc (CFSG) project

jean-paul.chiles@mines-paristech.fr