

# CURRICULUM VITAE

## Personal Information

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- **Name :** Mohammadali Malekitehrani
- **RUT:** 24.132.264-5
- **Date of Birth:** 25 February 1987
- **Citizenship:** Iran
- **Residency status:** Definitive permanency
- **Address:** Avenida Club Hípico 1528, Departamento 907, Santiago, Chile
- **Phone number:** +56-9-65825986
- **Email address:** [mmaleki@alges.cl](mailto:mmaleki@alges.cl)

## Educational experience

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- Lecturer of postgraduate diploma course **Applied Geostatistics for Evaluation of mineral deposit** offered by the Mining Engineering Department at University of Chile (Postgraduate Diploma in Geostatistical Ore Body Evaluation), Jun 2018.
- Lecturer of diploma course **Multivariate statistics** offered by the BS Group Peru, Lima Mayo 2018.
- Lecturer of postgraduate diploma course **Special Topics in Geostatistics** offered by the Mining Engineering Department at University of Chile (Postgraduate Diploma in Geostatistical Ore Body Evaluation), December 2017.
- Lecturer of postgraduate diploma course **Geostatistical Simulation of Geology and Grades** offered by the Mining Engineering Department at University of Chile (Postgraduate Diploma in Geostatistical Ore Body Evaluation), August 2017.
- Lecturer of **Geostatistical Simulation** (MI6041) for PhD, MSc. and undergraduate students in Mining Engineering, University of Chile, Fall 2017.
- Lecturer of postgraduate diploma course **Special Topics in Geostatistics** offered by the Mining Engineering Department at University of Chile (Postgraduate Diploma in Geostatistical Ore Body Evaluation), November 2016.
- Lecturer of postgraduate diploma course **Geostatistical Simulation of Geology and Grades** offered by the Mining Engineering Department at University of Chile (Postgraduate Diploma in Geostatistical Ore Body Evaluation), August 2016.
- Teaching Assistant of **Geostatistical Simulation** (MI6041) for PhD, MSc. and undergraduate students in Mining Engineering, University of Chile, Fall 2016.
- Lecturer of postgraduate diploma course **Special Topics in Geostatistics** offered by the Mining Engineering Department at University of Chile (Postgraduate Diploma in Geostatistical Ore Body Evaluation), December 2015.

- Teaching Assistant of **Statistical and Geostatistical Data Analysis** (MI4040) for undergraduate students in Mining Engineering, University of Chile, Fall 2015.
- Teaching Assistant of **Linear Geostatistics** for Master students in Mining Engineering, University of Tehran, Spring 2012.
- Teaching Assistant of **Linear Geostatistics** for Master students in Petroleum Engineering, University of Tehran, Fall 2011.
- Teaching Assistant of **Linear Geostatistics** for Master students in Mining Engineering, University of Tarbiat Modares, Fall 2011.
- Teacher Assistant of **Evaluation of Mineral Deposits** for Bachelor students in Mining Engineering, Amirkabir University of Technology, Fall 2010 and Fall 2009 (two semesters).
- Teacher Assistant of **Evaluation of Mineral Deposits** for Bachelor students in Mining Engineering, University of Tehran, Fall 2010.
- Teaching Assistant in **Datamine Software Training** for Master students in Mining Engineering, University Tarbiat Modares, Course of Geostatistics, Fall 2011.

## **Professional experience**

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- Researcher at Advanced Mining Technology Center (AMTC), University of Chile. Participation in research project “Modeling uncertainty in mineral resources and ore reserves”. (January 2017 up to October 2017).
- Participation in research project, Large scale optimization and uncertainty: Challenges in strategic mine planning, an interdisciplinary approach” (Conicyt PIA Anillo ACT1407). Project held jointly by Universidad Adolfo Ibáñez, Universidad de Chile and Pontificia Universidad Católica de Chile. (November 2017 – March 2018).

## **Education**

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- **Secondary school – (September 1998- June 2001)**  
Mofid High School
- **High school – (September 2001- June 2004)**  
Eammi High School
- **Pre - university (September 2004- June 2005)**  
Eammi High school School
- **B.Sc. Mining Engineering - Exploration (September 2005- September 2009)**  
Amirkabir University of Technology (Tehran Polytechnic)  
GPA: 14.93/20

- **M.Sc. Mining Engineering - Exploration (September 2009- September 2011)**  
Amirkabir University of Technology (Tehran Polytechnic)  
GPA: 18.06/20
- **Ph.D. in Mining Engineering (March 2013 - November 2016)**  
University of Chile  
GPA: 6.5/7
- **Postdoctoral Researcher**  
Fondecyt Postdoctoral 2018: Geostatistical modeling of geological uncertainty for mineral resources and ore reserves quantification (March 2018 up to now).

## Research

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### *ISI publications*

- **Maleki, M.**, Emery, X., Mery, N., 2017. Indicator variograms as an aid for geological interpretation and modeling of ore deposits. *Minerals* 7(12), 241.
- **Maleki, M.**, Emery, X., 2017. Joint simulation of stationary grade and non-stationary rock type for quantifying geological uncertainty in an ore deposit. *Computers & Geosciences*, in press.
- Hosseini, S., Asghari, O., Emery, X., **Maleki, M.**, 2017. Forecasting the grade-tonnage curves and their uncertainty at Mehdiabad Deposit-Yazd, Central Iran. *Bollettino di Geofisica Teorica e Applicata*, in press.
- **Maleki, M.**, Emery, X., Caceres, A., Ribeiro, D., Cunha, E., 2015. Quantifying the uncertainty in the spatial layout of rock type domains in an iron ore deposit. *Computational Geosciences* 20(5): 1013–1028.
- **Maleki, M.**, Emery, X., 2015. Joint simulation of grade and rock type in a stratabound copper deposit. *Mathematical Geosciences* 47: 471-495.
- **Maleki, M.**, Emery, X., Madani, N., 2014, Capping and kriging grades with long-tailed distributions. *Journal of Southern African Institute of Mining and Metallurgy* 114(3): 255-263.
- Aalianvari, A., **Malekitehrani, M.**, Soltanomohammadi, S., 2014. Estimation of water flow from upper reservoir of Azad pumped storage power plant, using geostatistical methods. *Journal of the Geological Society of India* 83(1): 76-82.
- **Maleki, M.**, Asghari, O., Emery, X., 2013. Simulation of mineral grades and classification of mineral resources by using hard and soft conditioning data: application to Sungun porphyry copper deposit. *Arabian Journal of Geosciences* 6: 3773-3781.
- Aalianvari, A., **Maleki, M.**, Soltanimohammadi, S., 2013. Application of geostatistical methods to estimation of water flow from upper reservoir of Azad pumped storage power plant. *Arabian Journal of Geosciences* 6: 2571-2579.

### Submitted papers

- Madani, N., Emery, X., Biranvand, B., **Maleki, M.**, 2017. Comparing geostatistical simulation algorithms for reproducing boundary smoothness and contact relationships between lithofacies in the subsurface. Journal of Petroleum Science and Engineering, submitted in August 2017.

### International congresses

- **Maleki, M.**, Emery, X., Cáceres, A., Ribeiro, D., Cunha, E., 2014. Quantifying the uncertainty in the spatial layout of rock units in an iron ore deposit. In: Proceedings of the Second International Seminar on Geometallurgy. Gecamin Ltda, Santiago.
- **Maleki, M.**, Emery, X., Asghari, O., 2013. Simulation of copper grade conditioned to rock type data in Sungun copper deposit, Iran. In: Ambrus J., Beniscelli J., Brunner F., Cabello J., Ibarra F. (eds.), 3rd International Seminar on Geology for the Mining Industry. Gecamin Ltda, Santiago, pp. 49-56.
- **Maleki Tehrani, M.A.**, Asghari, O., Emery, X., 2011. Improvement of classification of mineral resource with simulation of hard and soft conditioning data based on local moment constraints method. In: First World Copper Congress, Tehran, 24-26 Oct. 2011, 12 p.

### Participation in research projects

- “Large scale optimization and uncertainty: Challenges in strategic mine planning, an interdisciplinary approach” (Conicyt PIA Anillo ACT1407), postdoctoral researcher (2017-to date). Project held jointly by Universidad Adolfo Ibáñez, Universidad de Chile and Pontificia Universidad Católica de Chile.
- Modeling uncertainty in the extension of geological units for mineral resources evaluation” (COPEC-UC 2014.J.057). Collaborator (2017) in case study application.
- “Modeling uncertainty in mineral resources and ore reserves” (AMTC L2P3), PhD student (2015-2016) and researcher (2016-2017).
- “Geostatistical modeling of ore bodies with heterogeneous spatial variations” (Fondecyt 1130085), PhD student, 2013-2016.
- “Geostatistical co-simulation of grades and rock types for iron resource evaluation” (Vale S.A.), PhD student, 2013-2015.
- “Data mining and mine planning” (CSIRO-Chile International Center of Excellence in Mining and Mineral Processing), PhD student, 2013-2016.

## **Other**

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### Honors and Awards

- “PiensaCobre” Award (2016), granted by the Center of Mathematical Modeling (University of Chile) and Codelco-Chile.
- Mathematical Geosciences Student Award 2013, granted by the International Association for Mathematical Geosciences (IAMG).
- Ranked 29th among all participants (4000 candidates) in Mining Engineering Graduate Entrance Examination, Iran.
- M.Sc. GPA: 18.06/20 (Ranked 1st among all Master students of Mining Engineering).

### Extracurricular Activities

- Volunteer in oncology foundation (Fundación Casa Sagrada Familia), 2015-up to now
- Managing director of “Bolour” Technical Magazine (Student Mining Magazine), the best technical magazine of all universities of Iran in years 2006 and 2011, Faculty of Mining Engineering, Amirkabir University of Technology, 2008-2009.
- Member of the Editorial Group, Bolur Magazine, Faculty of Mining Engineering, Amirkabir University of Technology, 2009-2012.
- Head of Student Society of Mining Engineering, Faculty of Mining Engineering, Amirkabir University of Technology, 2006-2007.
- Member of the board of direction of the 6th National Conference of Mining Engineering Students, Iran, Tehran, March 2008.

### Software

- MATLAB, SGeMS, GSLIB, SPSS, Office, DataMine, Surfer.
- Programming: MATLAB

### Languages

- Persian: native
- English: fluent
- Spanish: fluent