Sara Kasmaeeyazdi

Professoressa a contratto
Dipartimento di Ingegneria Civile, Chimica, Ambientale e dei Materiali
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Curriculum vitae

Personal Details

Sara Kasmaee

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Residence: Bologna, Italy

Academic Degrees

B.Sc. in Mining Engineering, Exploration of Mine, Sep 2006, Yazd University, Yazd, Iran. The title of B.Sc. thesis:"*Leaching study of the Copper Ore of Darezereshk Mine, Iran*".

M.Sc. in Mine Exploration Engineering, February 2009, Yazd University, Yazd, Iran. The title of M.Sc. thesis: "*Reserve Estimation of High & Low Grade Stockpiles in Choghart Ore Iron Mine*"

PhD in Georesourse (Geostatistics), Bologna University, Department of Civil, Chemical, Environmental and Material Engineering (DICAM), Final exam: 17th May 2017, Evaluation: "Excellent" , The title of PhD thesis: "*Geostatistical modeling of ore deposits with transitional boundaries*"

1/10/2021 till 31/12/2021

Guest Researcher at **Lulea University of Technology (Sweden)**; Group of Geophysical exploration and Remote sensing working on Hyperspectral remote sensing techniques (Marco-Polo scholarship awarded by University of Bologna (UNIBO)

1/12/2019 till 2/12/2021

Research fellow; Project: "BRICO-Piles: Characterisation of bauxite residuals in abandoned sites for contamination monitoring and raw material recovery using Copernicus data" funded by **EIT KIC Raw Material Copernicus Academy**, with the host UNIBO (Italy)

1/11/2018 till 1/11/2019

Research fellow; Project: "COP-Piles: Sampling optimization in stockpiles/tailings, for grade mapping of raw material using geostatistical analysis and Earth observation data" funded by **EIT KIC Raw Material Copernicus Academy**, with the host UNIBO (Italy).

01/02/2018 till 01/10/2018

Research fellow (MAECI:**The Ministry of Foreign Affairs and International Cooperation**): Research work on "Assessment of the influence of transitional geological boundaries on geothermal energy exploitation" on GEOTeCH H2020, UNIBO (Italy).

01/02/2017 till 01/01/2018

Research fellow working in the European project, **GEOTeCH H2020**, UNIBO (Italy), Department of Civil, Chemical, Environmental and Material Engineering (DICAM), "Mapping of European potential for innovative geothermal technology for economic cooling and heating".

01/10/2014 till 28/02/2015

Guest PhD student at **MINESParisTech (France)**; Centre de Géosciences, participating to CSFG courses (Marco-Polo scholarship awarded by UNIBO).

Other Research Projects:

Research work since February 2017 for mapping of European potential for innovative geothermal technology for economic cooling and heating (GEOTeCH project- Geothermal Technology for Economical Cooling and Heating) http://www.geotech-project.eu/, University of Bologna, Italy

Research work to apply geostatistical modeling for temperature prediction on exploitation of geothermal energy using tunnel lining technology in a mountain environment, for the Brenner Base Tunnel – BBT, University of Bologna, Italy (2016-2017)

"Calculation of the optimum cell size using kriging efficiency in stream sedimentary geochemical mapping"; Case study: Khoy district northwest of Iran (2012-2013)

"Improving Geological Models Using Multiple Indicator Kriging Approach"; Case Study: Sechahun Iron Ore Deposit, Central Iran (2012- 2013)

"Remodeling and Reserve Estimating of Sechahun Iron Ore using geostatistical modeling", geological modeling, geometric modeling with Gemcome Surpac Software, (Fe) & (P) estimation, Iran Central Iron ore Company (2011-2012)

"Reserve estimation in JAJARM Aluminium Mine", Geology data management, 3D Geological modelling and estimation using inverse distance method , Iran Alumina Center (2011)

"study of Chadurmaloo tailings and estimation its parameters for recycling to processing plant , R&D of Fakoor Sanat Iran Company (2010)

"Grade Estimation of Ore Stockpiles by Using Artificial Neural Networks, Case study: Choghart Iron Mine of Iran" , Iran Central Iron ore Company , (2009)

"Determination of the quality of the high phosphor-low grade stockpile in Choghart Iron ore mine using geostatistical methods ", Iran Central Iron ore Company (Choghart Iron Mine),Yazd, Iran, (2008)

Workshops (as an instructor)

Reserve estimation of massive deposits using Gemcom-Suurpac software : course of Computer Application in Mines, Yazd University (second semester, 2012-2013)

Reserve estimation by linear Geostatistical methods and Inverse distance using Gemcom-Suurpac software : R & D section, Iran Alumina Centre (April 2011)

"*Seal of Excellence*" for the proposal submitted in 2022 at the Marie-Curie Post-Doc position (Global fellow) with the evaluation point of 89.4 out of 100.

National Scientific Qualification as Associate professor from Italian Ministry (2022)

1th rank amoung the M.Sc students of Mining Engineering at Yazd University, Faculty of Mining and Metallurgical Engineering, Yazd, Iran (GPA: 18.68 out of 20).

Have been accepted as a PhD student with the rank 7th of 81 , making me the only foreign candidate to qualify for the scholarship of the University of the Bologna

Accepted as a ISA-Brains fellowship (Institute of Advance Studies) and receiving the logging fellowship for the academic year 2014-2016

Computer Skills

ISATIS (geostatistics modeling), R programming, GEMCOMSURPAC (mining engineering software), Voxler (visualization)

SCIENTIFIC MEMBERSHIP AND REVIEW EXPERIENCE

Scientific committee of 14th International Conference on Geostatistics for Environmental Applications (GEOEnv2022), Parma, Italy, 22-24/06/2022

Scientific committee of Conference on Raw Materials and Circular Economy [RawMat2021], Athens, Greece, 06-10/09/2021

Guest Editor for the journal of "Remote sensing" and "Resources" (MDPI), Basel, Switzerland (since2021)

Scientific committee of "Mathematical Methods and Terminology in Geology 2022, 2020 and 2018", (October 2022), (10/10/2020) and (10/10/2018), Faculty of Mining, Geology and Petroleum Engineering, University of Zagreb, Croatia

Reviewer for the journal of "Natural Resources Research" (Springer), Switzerland (since 2022)

Reviewer for the journal of "Acta Geophysica" (Springer), Switzerland (since 2021)

Reviewer for the journal of "Remote sensing", "Applied Sciences", "Energies", "Environmental Research and Public Health" and "Minerals" (MDPI), Switzerland (since 2019)

Member of International Association for Mathematical Geosciences IAMG (since 2019)

Reviewer for the journal of "The Mining-Geology-Petroleum Engineering Bulletin". University of Zagreb, Croatia (since 2018)

Reviewer for "Bolletino di Geofisica Teorica e Applicata" and "Bulletin of Geophysics and Oceanography", (International journals of earth science), Italy, (since 2018).