

**Personal information****Prenome/ Name** Marian Munteanu**E-mail** [munteanu.marian@igr.ro](mailto:munteanu.marian@igr.ro), [marianmunteanu2000@gmail.com](mailto:marianmunteanu2000@gmail.com)**Nationality** Romanian**Studies** 1980 –1985, University “Al. I. Cuza” Iași Geology Engineer  
1998, University “Al. I. Cuza” Iași, Ph.D. in Geology, specialization metallogeny**Work experience****Period** **March 2010 – present**

Name and address of employer Geological Institute of Romania, 1 Caransebeș St., sector 1, Bucharest.

Position Senior Scientific Researcher

Type of business Scientific research (Geology)

**Main activities and responsibilities** Research on the geological and structural conditions of mineral deposits, genesis of the mineralization, alteration, metamorphism, mobilization, lithologic and structural controls on metallogenesis. Participation to the INSPIRE Directive-compliant harmonization of the geological data from Romania with the data from other European countries.*Projects:*

- FRAME - Forecasting and Assessing Europe’s Strategic Raw Materials Needs, within Geo-ERA program (H2020 – Coordinator of the team from the Geological Institute of Romania). 2017-2021.

- X-MINE - Real-Time Mineral X-Ray analysis for efficient and sustainable mining (H2020 – Coordinator of the team from the Geological Institute of Romania). 2017-2021.

- MINATURA - Developing a concept for a European minerals deposit framework (H2020-Participant). 2016-2018.

- SUSMIN Tools for sustainable gold mining in EU (2014-2016). Project funded in the ERA MIN – ERA NET program. Coordinator from the Geological Institute of Romania.

- Maxi - Mineral Analysis using X-ray imaging (2014-2015). Project funded in the ERA MIN – ERA NET program.

- Minerals 4EU – Minerals Intelligence Network for Europe; project implemented by EuroGEOsurveys.

- Minventory – Statistical Information on EU Raw Materials Deposits; project funded by the European Commission through DG Enterprise.

- EuroGeoSource “EU Information and Policy Support System for Sustainable Supply of Europe with Energy and Mineral Resources” (2010-2013) in the frame of the CIP-ICT Program (Participant).

- "Investigation the rare elements in porphyry copper deposits from Romania" (2011-2013), funded by the Ministry of Education, Research, Youth and Sport (Mentor).

- Project 40-4/2010 under the bilateral cooperation program China-Romania. "Evaluation of the PGE potential of the mafic-ultramafic intrusions in Romania using the experience from the investigation of Panxi area, South-West China" (Project Director, 2011-2012).

- SARMa - Sustainable Aggregates Resource Management (2010-2011), project within the Program "South-East Europe Transnational Cooperation" of the European Union (Participant).

**Period** **August 2008-August 2009**

Name and address of employer Anglo Platinum, Johannesburg, South Africa

Position Project Geologist

Type of business Geological exploration

Main activities and responsibilities	Exploration for PGE, Ni and Cu in Panxi zone, Sichuan Province of China. <i>Activities:</i> Geological mapping and correlation using ArcGIS software and data from outcrops, underground mining and drill cores; use of geochemical data to model ore distribution and genesis.
<b>Period</b>	<b>March 2004-August 2008</b>
Name and address of employer	University of the Witwatersrand, 1 Jan Smuts St, Johannesburg, South Africa.
Position	Research Fellow
Type of business	Scientific research (Geology)
Main activities and responsibilities	Research on the geological conditions of the PGE and Ni-Cu mineralizations from the Sichuan Province of China, in a project funded by Anglo Platinum and by a THRIP grant from the South African Government, under the auspices of the National Research Foundation (NRF) of South Africa. Research activities: geological mapping using ArcGIS software; drill core logging; optical microscope study (polished and thin sections); mineral chemistry measurement using electron microprobe (CAMECA and Jeol); use of geochemical data (XRF, ICP-MS, electron microprobe) and geochronologic data (SHRIMP zircon U-Pb) to elaborate petrogenetic, metallogenetic and paleogeographic models; publication of results in scientific articles; coordination of Honours Students diploma dissertation; occasional teaching of courses and laboratory demonstrations.
<b>Period</b>	<b>November 1999-March 2004</b>
Name and address of employer	National Agency for Mineral Resources, 36-38 Mendeleev St., sector 1, Bucharest
Position	Counselor IA
Type of business	Public servant, Geology Expert.
Main activities and responsibilities	Supervision and monitoring of programs for geological exploration and mining; elaboration of exploration and mining licenses, approvals for exploration, approvals for constructions in areas with hydrogeological protection.
<b>Period</b>	<b>November 1987-November 1999</b>
Name and address of employer	Geological Institute of Romania, 1 Caransebeş St., sector 1, Bucharest
Position	Geology Engineer, Researcher, Senior Scientific Researcher
Type of business	Scientific research (Geology)
Main activities and responsibilities	Geological mapping, petrographic, mineralogical and metallogenetic studies, regional correlations. <i>Projects:</i> Study of the gold and base metal potential of the porphyry-type mineralization from the Talagiu Caldera (Apuseni Mts., Carpathians). Study of the metallogenetic potential of the Crystalline-Mesozoic Zone of the Eastern Carpathians (VMS, manganese, Pb-Zn in carbonate rocks). Petrographic and geochemical study of the Ditrău alkaline massif and of its thermal aureole, Eastern Carpathians, Romania. Petrologic, geochemical and metallogenetic (gold and base metals) study of the intrusive breccias in the Apuseni Mountains, Carpathians, Romania. Geological Map of Romania scale 1:50000, sheets Coşna, Cârlibaba and Gurahonţ (Carpathian Mts.).
Mother tongue	Romanian
Other languages	
English	Very good
French	Good
Computer skills and competences	ArcGIS, OCAD

Other skills and competences	<b>Economist (1989-1994)</b> , Faculty of Commerce, Academy of Economic Studies, Bucharest <b>2002-2004</b> – Environmental impact of mining. Post-graduate Certificate. Camborne School of Mines, Exeter University, UK
Research stages abroad	Feb-Apr 2013, Aug-Nov 2013, Nov 2013-Feb 2014, May-Aug 2014. Invited Research Fellow at Rhodes University, Grahamstown, South Africa.
Awards	2019. “Ludovic Mrazec” award of the Romanian Academy for the article: "Munteanu, M., Wilson, A.H., Costin, G., Yao, Y., <a href="#">Lum</a> , J.E., Jiang, S.Y., Jourdan, F., Chunnett, G., Cioacă, M.E., 2017. The mafic-ultramafic dykes in the Yanbian Terrane (Sichuan Province, SW China): Record of magma differentiation and emplacement in the Emeishan Large Igneous Province". <i>Journal of Petrology</i> , 58, 513-538.
Professional affiliations	- Romanian Society of Economic Geology (vice-president). - Member of the National Association of Professionals in Geology and Mining (ANPGM), affiliated to the European Federation of Geologists.

#### Articles in ISI-ranked journals

- Cioacă, M. E., Munteanu, M., Lynch, E. P., Arvanitidis, N., Bergqvist, M., Costin, G., Ivanov, D., Milu, V., Arvidsson, R., Iorga-Pavel, A., Högdahl, K., Stoilov, V., 2020. Mineralogical Setting of Precious Metals at the Assarel Porphyry Copper-Gold Deposit, Bulgaria, as Supporting Information for the Development of New Drill Core 3D XCT-XRF Scanning Technology. *Minerals*, 10, 946.
- Munteanu, M., Wilson, A.H., Costin, G., Yao, Y., [Lum](#), J.E., Jiang, S.Y., Jourdan, F., Chunnett, G., Cioacă, M.E., 2017. The mafic-ultramafic dykes in the Yanbian Terrane (Sichuan Province, SW China): Record of magma differentiation and emplacement in the Emeishan Large Igneous Province. *Journal of Petrology*, 58, 513-538
- Cioacă M.E., Munteanu M., L. Qi, G. Costin, 2013. Trace elements concentration in porphyry copper deposits from Metaliferi Mountains, Romania. A reconnaissance study. *Ore Geology Reviews*, 63, 22-39.
- Marian Munteanu, Yong Yao, Allan H. Wilson, Gordon Chunnett, Yaonan Luo, Hong He, Mihaela Cioacă, Maolin Wen, 2013. Panxi region (South-West China): Tectonics, magmatism and metallogenesis. A review, *Tectonophysics*, 608, 51-71.
- Munteanu M, Wilson AH, Yao Y, Chunnett G, Luo Y., Sibanda, S. 2011. The Lengshuiqing Ni-Cu deposit, Sichuan, Southwestern China: ore characteristics and genesis. *Canadian Mineralogist*, 49, 1599-1626.
- Munteanu M, Wilson AH, Yao Y, Chunnett G, Luo Y., 2010a. Sequence of magma emplacement and sulfide saturation in the Gaojiacun–Lengshuiqing intrusive complex (SW China). *Mineralium Deposita*, 45, 517-529.
- Munteanu M, Wilson AH, Yao Y, Harris C, Chunnett G, Luo Y, 2010b. The Tongde dioritic pluton (Sichuan, SW China) and its geotectonic setting: Regional implications of a local scale study. *Gondwana Research*, 18, 455-465.
- Munteanu, M., Wilson, A.H., Yao, Y., Jiang, S.Y., Chunnett, G., Luo, Y., Mafurutu, L., Phadagi, R., 2010c. A conduit-related genesis of the Lengshuiqing intrusive assemblage (Sichuan, SW China). *Journal of Volcanology and Geothermal Research*, 189, 118-130
- Munteanu, M., Wilson, A., 2009. The South China piece in the Rodinian puzzle: Comment on “Assembly, configuration, and break-up history of Rodinia: A synthesis” by Li et al. (2008) [*Precambrian Res.* 160, 179–210]. *Precambrian Research*, 171, 74-76
- Munteanu, M. and Yao, Y. 2007. The Gaojiacun intrusion: Rift- or subduction-related? Comment on “Revisiting the “Yanbian Terrane”: Implications for Neoproterozoic tectonic evolution of the western Yangtze Block, South China” by Li et al. (2006) [*Precambrian Res.* 151 (2006) 14–30]. *Precambrian Research*, 155, 324-327.
- Munteanu, M., Yao, Y., Wilson, A.H., Chunnett, G., Luo, Y.N., Zhao, Q.X. 2006. The Gaojiacun mafic–ultramafic complex (Sichuan, SW China)—Late Proterozoic magmatism at the western margin of the Yangtze Craton. *Acta Geol. Sinica*, 80, 705-723.
- Munteanu, M., Marincea, S., Kasper, H.U., Zak, K., Alexe, V., Trandafir, V., Saptefrati, G., Mihalache, A. 2004. Black chert-hosted manganese deposits from the Bistritei Mountains, Eastern Carpathians (Romania): Petrography, genesis and metamorphic evolution *Ore Geology Reviews*, 24 (1-2), 45-65.

- Munteanu, M. and Tatu, M. 2003. The East-Carpathian Crystalline-Mesozoic Zone: Paleozoic amalgamation of Gondwana- and East European Craton-derived terranes. *Gondwana Research*, 6, 185-196.
- Nițoi, E., Munteanu, M., Marincea, S. and Paraschivoiu, V. 2002. Magma-enclave interactions in the East-Carpathian subvolcanic zone, Romania: petrogenetic implications. *Journal of Volcanology and Geothermal Research*, 118, 229-259.