



## Europass Curriculum Vitae

### Personal information

First name(s) / Surname(s) **Szabo A. Robert**

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E-mail robert.szabo@yahoo.com

Nationality Romanian

### Occupational field

#### Work experience

**Dates August 5<sup>th</sup>, 2019 - present**

Occupation or position held Research assistant

Main activities and responsibilities

- Mineralogy, Geodiversity, Conservation of national geological heritage, investigations and laboratory analyses, metamorphic and igneous petrology, thin section microscopy, crystal chemistry, museology, education

Name and address of employer Geological Institute of Romania, Department for Installations of National Interest:

**GEOECOLAB**

From February 2021 - present

Geological Institute of Romania Headquarters, Caransebes street, No 1, Sector 1, Bucharest

National Museum of Geology,

(From august 2019 - february 2021)

Kiseleff Avenue, no. 2, Sector 1, Bucharest, Romania.

Type of business or sector Mineralogy

**Dates September 2017 – March 2019**

Occupation or position held Learners Support Officer (L.S.O.)

Main activities and responsibilities	<ul style="list-style-type: none"> <li>supervise students (3 – 18 years) in classroom, library and communal areas; maintain a calm environment while children are waiting for class or waiting for collection; provide activities for children to be involved in while waiting for class or waiting for collection; assist children with their British Council (or other) homework; ensure the safe handover of children from the British Council to their guardian; assist with very occasional Teaching Centre events or admin tasks.</li> </ul>
Name and address of employer	British Council Romania, 14 Calea Dorobanților, 010572, Bucharest, Phone number: +4 021 307 9600
Type of business or sector	Education, Human Resources
<b>Dates</b>	<b>september 2014 –september 2016</b>
Occupation or position held	Professor
Main activities and responsibilities	<ul style="list-style-type: none"> <li>Teaching activities, courses of theory, laboratories and practical training, for the following disciplines: Accounting, Economics, Applied economics, Human resource development, Economic and financial management, Entrepreneurship education, Project management, Public finances and taxation, Marketing, Professional communication, Operational planning, Negotiation in sales; Work design, analysis of school curricula, designing the teaching activities, establishing optimal teaching strategies, performance management, extra-curricular activities, assessment of learning outcomes; Member of the Board of training and professional development; Management of career and personal development, participation in methodical trainings / courses / degrees in teaching, participation in international and national scientific competitions and conferences; Activities like planning, time administration, team work, classroom management;</li> </ul>
Name and address of employer	Technological High School of Lupeni City, Tineretului Street, No. 43, postal code 335600, Phone/Fax: 0254-560779, Hunedoara County, Romania;
Type of business or sector	Education and Research
<b>Dates</b>	<b>september 2012 –september 2015</b>
Occupation or position held	Professor

Main activities and responsibilities	<ul style="list-style-type: none"> <li>Teaching activities, courses of theory, laboratory and practical training in the following disciplines: Economics, Applied Economics, Entrepreneurship education, Economic and financial management, Project Management, Business and Finance, Finance and Taxation, Marketing, Accounting, Professional communication, Human resource development, Operational planning, Negotiation in sales; Work design, analysis of school curricula, designing the teaching activities, establishing optimal teaching strategies, performance and extra-curricular activities, assessment of learning outcomes; Proficient management in activities like planning, classroom orientation for performance, time administration, team work and management; Management of career and personal development, participation in methodical trainings / courses / degrees in teaching, participation in international and national scientific competitions and conferences; Management of quality in education and target achievements in the process of education; Member of the Board of training and professional development; Evaluator professor, member for The National Inter-County Fair of Virtual Enterprises Competition, section Marketing: „The best Power point presentation”, and the „Best web site”.</li> </ul>
Name and address of employer	Technical College „Constantin Brâncuși” Petrila City, Republicii Street, No. 196, postal code 335800, Phone/fax 0254-550743, Hunedoara County, Romania.
Type of business or sector	Education and Research
<b>Dates</b>	<b>march 2009 – march 2012</b>
Occupation or position held	Associated Assistant Professor
Main activities and responsibilities	<ul style="list-style-type: none"> <li>Teaching activities, hours of seminar and laboratory in disciplines such as financial management, Accounting, Corporate finance, financial management in public administration; Management of quality in education and target achievements in the process of education; Activities in Organizing, Planning and institutional marketing.</li> </ul>
Name and address of employer	University of Petroșani, Faculty of Sciences, Departament of Economical Sciences, Universității street nr. 20, postal code 332006, Petroșani City, Hunedoara County, Phone. 0254/54.25.80, 54.33.82, Fax. 0254/54.34.91,
Type of business or sector	Education and Scientific Research

**Education and training**

Title of qualification awarded  
Principal subjects/occupational skills covered  
Name and type of organisation providing education and training

Doctoral School - Thesis to be published in the academic year 2020 - 2021  
Field of Geology (mineralogy, metalogeny and petrology)  
University of Bucharest, Faculty of Geology and Geophysics, Doctoral School of Geology

**Dates****2011 - 2013**

Title of qualification awarded  
Principal subjects/occupational skills covered  
Name and type of organisation providing education and training

Master's Degree  
Postgraduate Diploma  
Geology and environmental sciences Applied geo-biology in conservation of natural and cultural heritage; Geology and environmental sciences; Geodiversity, Natural and cultural heritage, Geoconservation, Geobiochemical investigations, Protected Areas, Global changes, Geochemistry, Micropaleontology and others.  
University of Bucharest, Faculty of Geology and Geophysics

**Dates****2008 - 2010**

Title of qualification awarded  
Principal subjects/occupational skills covered  
Name and type of organisation providing education and training

Master's Degree  
Postgraduate diploma  
Field of Finances, Specialization: Banking and Financial Management  
University of Petroșani, Faculty of Sciences

**Dates****2004 - 2008**

Title of qualification awarded  
Principal subjects/occupational skills covered  
Name and type of organisation providing education and training

Bachelor  
Bachelor's degree  
Economics  
Finances and banking  
University of Petroșani, Faculty of Sciences

**Dates** 2000 - 2004

Title of qualification awarded Baccalaureate  
Baccalaureate degree.

Principal subjects/occupational skills covered Mathematics - Informatics.

Name and type of organisation providing education and training College „Mircea Eliade”, Lupeni City

**Personal skills and competences**

Mother tongue(s) Romanian

Other language(s)

Self-assessment  
*European level (\*)*

**English**  
**German**  
**Hungarian**  
**French**  
**Spanish**

Understanding		Speaking				Writing			
Listening		Reading		Spoken interaction		Spoken production			
C2		C2		C2		C2		C1	
B2		B1		B2		B2		B1	
B1		B1		A2		A2		B1	
A2		A2		A2		A2		A2	

(\*) *Common European Framework of Reference for Languages*

**Social skills and competences**

Teamwork, communication skills, ability to adapt to different cultural backgrounds acquired during the studies and training abroad (Hungary, United Kingdom, France, Belgium and Germany), oral presentation and debates skills resulting from participation in national and international symposiums and conferences.

**Skills achieved at the working place**

- Ability to adapt to different situations, initiative, capacity to solve problems;
- Training and selfdeveloping, mediating skills, intercultural skills, team work (as a member of the Board for development and continuing education)
- Performance orientation (prizes and awards obtained with the students at different competitions and conferences)
- Competent in evaluating and feedback
- Ability in taking decisions
- Creative and analytical mind
- Data analysis and technical writing
- Project management

**Computer skills and competences**

- Programming languages and common operating systems, specialized software proficiency;
- Proficient user: MS Office (Word, Excell, Power Point), Internet;
- Confident user: Access, Microsoft Visual FoxPro, etc.
- Good user: EViews, Ciel, Scilab, Matlab, Cyberlink Power Director, Photo Shop Editor, Adobe CS Editor, OCAD, Topas, EVA, Quantax, and other job related.

**Organisational/ managerial skills**

- Competent in work management, project management and team management;
- Competent in coordinating different activities;
- Ability in assigning and prioritizing tasks;
- Competent in time budget management;

**Certifications**

- Cambridge Assessment English Level 2 Certificate in ESOL International;
- European structural and cohesion funds, program of initiation / development / specialization, 56 hours / offered by ProEuro – Cons Group, Slatina City, Olt County, Romania;
- Certified TRAINER, program of initiation / development / specialization, organized by commercial society S.C. Comargo. S.R.L. Cluj-Napoca City, Cluj County, Romania;
- IELTS, Level 7, British Council, Bucharest, Romania;
- PC Operator, Professional Certificate, issued by the Ministry of Education and the Ministry of Labour;
- Department for the training of teaching staff, continuous training and LLP –Erasmus, Level I and II, University of Petroșani, Romania;
- Permanent teacher certification (Definitivat 2014), Ministry of Education;
- Training courses graduated: Management for education purposes, Pedagogy, Psychology of education, Modern educational activities and processes, Motivation for performances and educational culture and others.

## Publications

### In the field of Mineralogy, Geology and Environmental Sciences Papers published in specialized journals

#### ISI

- **Szabo Robert**, Popescu C. Gh., Dumitraş D - G., Ghinescu E., (2020). New occurrences of sulfate minerals in Jiul de vest upper basin, South Carpathians, Romania. Carpathian Journal of Earth and Environmental Sciences, Baia Mare Vol. 15, No. 2, /August 2020, Vol. 15, No. 2, p. 347 – 358; Doi:10.26471/cjees/2020/015/135

#### ISI Proceedings

- Violeta-Monica Radu, Iustina (Popescu) Boaja, George Dincă, **Robert Szabo**, Maria-Alexandra Anghel (2021). „The potential recovery of critical elements from secondary raw materials existent in Romania”. The 3<sup>rd</sup> Euro-Mediterranean Conference for Environmental Integration (EMCEI-2021), 10-13 June, Sousse, Tunisia.
- Iustina (Popescu) Boaja, Violeta-Monica Radu, George Dincă, **Robert Szabo**, Maria-Alexandra Anghel (2021). „Spatial distribution and mobility of potentially toxic elements in the soil of Romania”. The 3<sup>rd</sup> Euro-Mediterranean Conference for Environmental Integration (EMCEI-2021), 10-13 June, Sousse, Tunisia.

#### BDI

- **Szabo Robert**, Popescu C. Gh., (2017). Preliminary data on secondary copper minerals from the Şiglău-Uricani perimeter, Vâlcan Mountains, Romania, Romanian Journal of Mineral Deposits, Vol 90, No 1-2, pp 19-27, Bucharest /ISSN 1220-5648;
- **Szabo Robert**, Popescu C. Gh., Ghinescu E., (2019). Contributions to the mineralogy of the „Purple” metamorphic rocks from the North-West flank of Vâlcan Mountains, Romanian Journal of Mineral Deposits, Vol. no. 95, pp 41-49, Bucharest / ISSN 1220-5648;

#### Symposium/Conferences

- **Szabo Robert**, Popescu C. Gh., Dumitraş D-G., Constantina C., (2019). New mineral occurrences on the north side of Vâlcan Mountains. Geosciences in the XXI century, symposium organised for the 80 years anniversary of Professor Dr. Emil Constantinescu, Bucharest. ISBN 1-1-2-2334-4.
- **Robert Szabo** , Dumitras Delia –Georgeta, Marincea Stefan, Constantina Ciprian, Ghinescu Eduard Preliminary data regarding the mineral composition of the “purple” metamorphic rocks from Vâlcan Mountains, South Carpathians, Romania. International Geological Conference, New Delhi, march 2020, postponed to November 2020, abstract accepted and reviewed;
- Ciprian Constantina, Delia-Georgeta Dumitraş, **Robert Szabo**, Nicolae Calin. Microscopical Raman and XRD study on the agates, calcedonies, opals and silicified woods from the southern Apuseni Mountains, Romania. International Geological Conference, New Delhi, march 2020, postponed to November 2020, abstract accepted and reviewed;
- 05 April 2014 participated at the First Edition of the International Conference „The Golden Holon Science – Men – Technics: The basis for a sustainable development” with the paper”. The beginnings of the earth and biodiversity”, Technological High School of Lupeni City, Hunedoara County in partnership with Hunedoara County School Inspectorate and Deva Teaching Staff House, ISBN 978-606-708-006-3;
- 05 April 2014 participated at the First Edition of the International Conference „The Golden Holon Science – Men – Technics: The basis for a sustainable development” with the paper „Elements of biodiversity and it’s conservation in the Retezat National Park”, Technological High School of Lupeni City, Hunedoara County in partnership with Hunedoara County School Inspectorate and Deva Teaching Staff House, ISBN 978-606-708-006-3.

- March 23-25, The International Symposium "Water, a miracle", 4<sup>th</sup> edition, Buzău, organized by "Iolanda Balas-Soter" High School from Buzău City, Buzău County, in partnership with the Water Basin Administration of Buzău – Ialomița in Romania, the Carpathian Danubian Center for Geoecology - GeoEcoMar – Bucharest, Buzău County School Inspectorate and Buzău Teaching Staff House „I. Ghe. Dumitrașcu ”, with the paper entitled „Water assessment in the Retezat Mountains, with the help of microbiology ”, ISSN 2067 - 8193, published in the volume of the Water Flower conference, ISBN-978 -606- 632-139-6;
- March 23-25, The International Symposium "Water, a miracle", 4<sup>th</sup> edition, Buzău, organized by "Iolanda Balas-Soter" High School from Buzău City, Buzău County, in partnership with the Water Basin Administration of Buzău – Ialomița in Romania, the Carpathian Danubian Center for Geoecology - GeoEcoMar – Bucharest, Buzău County School Inspectorate and Buzău Teaching Staff House „I. Ghe. Dumitrașcu ”, with the paper entitled „ The miraculous waters of the Retezat massif”, ISSN 2067 - 8193, published in the volume of the Water Flower conference, ISBN-978 -606- 632-139-6;

### **In the field of Economics**

#### **Papers published in journals and magazines:**

- „Investments in bonds on Romania’s capital market”, Annals of the University of Petroșani – Economics, volume X, Petroșani 2010, ISSN 1582 – 5949, CNCSIS cod 23, B+;
- „The management of a portfolio in the conditions of economic crisis” Annals of the university of Petroșani – Economics, volume X, Petroșani, ISSN 1582 – 5949, CNCSIS cod 23, B+;
- „Derivatives on the capital market in Romania”, Annals of the university of Petroșani – Economics, volume IX, Part II, Petroșani 2009, ISSN 1582 – 5949, CNCSIS cod 23, B+;
- „Financial analysis based on intermediate management balances”, Annals of the University of Petroșani – Economics, volume IX, Part IV, Petroșani 2009, ISSN 1582 – 5949, CNCSIS cod 23, B+ Category, pages 193 – 200.
- „The Bucharest stock exchange – a fundamental institution of Romania’s secondary capital market”, Microcad CAD International Scientific Conference section P Company Competitiveness in the XXI Century, University of Miskolc, Hungary, Edition 23, 19 – 20 march 2009, ISBN 978-963-661-925-1 and ISBN 978-963-661-925-3;

#### **Papers published in volumes of specialized conferences:**

- „Financial risk management, based on the balance sheet and profit and loss account”, Scientific Papers of the International Multidisciplinary Symposium, „Universitaria SIMPRO”– 2010, Section: Economics, Law and administration, ISSN 1842 – 4449, pages 106 - 109, 14-15 October 2010;
- „The Bucharest stock exchange, in the context of economic crisis”, International conference on European Integration - New Challenges, University of Oradea, 28 - 29 may 2010, Faculty of Economics, Annals of the University from Oradea, ISSN – 1582 - 5450, B+ category, the 6<sup>th</sup> edition;
- „The management of the financial balance”, The international conference – present issues of global economy, the 6<sup>th</sup>, University of Ovidius, 21 – 22 may 2010, Constanța, Romania, ISSN 1582-9383;
- „The analysis of the poll tax in conditions of economic crisis in Romania”, Microcad CAD International Scientific Conference section P Company Competitiveness in the XXI Century, University of Miskolc, Hungary, 18 – 20 march 2010, the 23<sup>rd</sup> , ISBN 978-963-661-925-1 and ISBN 978-963-661-925-3, page 141 - 146;
- „Aspects of intercultural communication in Romania”, International conference – „Real and virtual in the evolution of the learnable", 05 – 06 march 2010, Cluj-Napoca, Risosprint publishing house, 2010, ISBN 978-973-53-0266-5, pages 535 – 540;
- „Credit risk in the context of the world economic crisis”, International conference on European Integration. New challenges for the Romanian Economy, University of Oradea, 29-30 may 2009,



Faculty of Economics, Annals of the University from Oradea, ISSN – 1582-5450, B+ category, the 5<sup>th</sup>, page 118 – 120;

- „The management of a portfolio of listed bonds”, Scientific Papers of the International Multidisciplinary Symposium, „Universitaria SIMPRO” – 2008, Section: Economics, Law and administration, ISSN 1842 – 4449, pages 101 – 106.

## **Participations**

### **- in Olympics, Workshops and Awards obtained**

- October, 2012, USEW: Workshop in Finance organized by the Economic Sciences Department entitled „The role of public finances in regional economic development”, International Multidisciplinary Symposium “Universitaria Simpro 2012”, University of Petroșani;
- May 2009 – Awarded Third Prize, by the „Nicolae Bălcescu” Land Forces Academy, Sibiu, for the paper presented at the 17<sup>th</sup> edition of the Communication Session of Student Scientific Circles - SECOSAFT;
- November 2009 – Awarded Diploma for the National Student Olympics of Economics Finance and Financial Institutions, 4<sup>th</sup> edition, University of Craiova, Faculty of Economics and Business Administration;
- May 2007, Awarded Second Prize, for the paper presented at the National Symposium "Student, Science, Society", at University of Petroșani;
- May 2006, Awarded first mention, for the paper presented at the National Symposium "Student, Science, Society", University of Petroșani;
- May 2006 – Awarded Diploma, from the „Nicolae Bălcescu” Land Forces Academy, Sibiu, for the paper presented at the 14<sup>th</sup> edition of the Communication Session of Student Scientific Circles - SECOSAFT;
- May 1997 - First Prize, National History Olympiad, 7<sup>th</sup> grade, Ministry of Education, Hunedoara County School Inspectorate.

## **Projects**

### **- Membership, carried out in 2019 (including Core Program and beneficiary projects)**

- Designated member in National project PN 19-45-02-02 - Study of secondary resources of technogenic powders in Romania in order to identify the potential of industrial minerals and critical and high-tech raw materials, from February 2020 – present. Assigned duties: performing laboratory analyses and interpretation reports.
- Designated member in National project PN 19-45-02-01, RoQ-Stone - Romanian stone for construction – quality, cultural heritage value, scientific designation – project funded by the Ministry of Education and Research through the Core Program 2019-2022, having as contractor the Geological Institute of Romania, member from march 2021 – present. Assigned duties: performing laboratory analysis and interpretation reports

## **Studies, Reports, documentation**

### **- that contributed to the promotion of science and technology including media events dedicated to science and technology:**

- Educational program for the academic year 2019 - 2020 with the theme dedicated to pre-university education (grades V – X);
- Researchers' Night - "Ask a geologist" as a customer advisor and coordinator of scientific activities for visitors;
- Educational program for the academic year 2020 - 2021 with the theme „Minerals and modern technologies” dedicated to pre-university education (grades V – X)
- Interview given in the geoscience promotion program entitled „Doing research Midnight in Romania (DoReMi-RO) 2020” - Robert Szabo - Why did you choose the profession of researcher?

## **Technologies, procedures, IT-products, networking, formulas, methods and other:**

- Assembly, installation and commissioning (operationalization) of the XRF (X-Ray Fluorescence) analysis method at the laboratory within the National Museum of Geology - Analytical Minipal Pan4 type unit;
- Sample preparation methods used in XRF analyses with both additives (binder) and no additives (binder)
- Using the Minipal Pan 4 software;
- The procedure for commissioning and use of the Press with a maximum load of 30 tons.

## **Other relevant facts (activities, courses, instructions etc.)**

- Webinars organized by Bruker, Karlsruhe, Germany and FluxAna, Berlin, Germany, as follows:
  1. April 23, 2020 - Bruker webinar, S2 Puma series 2 - Elemental Analyzer;
  2. June 3, 2020 - Bruker webinar - The importance of good sample preparation;
  3. July 17, 2020 –Bruker Webinar: Tips and Tricks for Making Your Own Secondary Standards for XRF;
  4. July 30, 2020 Bruker webinar - G4 Icarus Series 2 - Why we are the best choice;
  5. October 13, 2020 - FluxAna webinar - Theory and fundamental principles of XRF;
  6. October 14, 2020 - FluxAna webinar- Practical use of XRF and sample preparation;
  7. October 20, 2020 - FluxAna - “Calibration of WDXRF”;
  8. November 18, 2020 –Bruker webinar - Live Webinar Part 1, Session 1: XRF as a Flexible Tool for Elemental Analysis of Geological Samples;
  9. December 15, 2020- Live Webinar: Part 2, Session 1: Process Monitoring and Grade Control in the Mining and Mineral Resource Industry by XRF;
- Instruction on the use of X-ray Diffractometer - Bruker D8 Advance, the program of analysis and interpretation of results with the help of Topas 4.2 program - organized by the National Research and Development Institute for Materials Physics, from Măgurele, Ilfov County;
- Training given to new employees on the use of laboratory equipment and techniques at the Geological Institute of Romania - Microcosmos Laboratory for the use of Scanning Electron Microscope (SEM) type Tabletop Hitachi; handling and use of equipment for obtaining thin sections and polished sections, Use of the Axio Zeiss microscope;
- Training given to new employees on the use of the X-ray Diffractometer, type Bruker D8 Advance; Infrared with Fourier transform (FT-IR); Simultaneous thermal analyzer STA 449 C Jupiter –Netzsch, in the laboratories of the National Museum of Geology Department of Installations of National Interest;
- Member of the Inventory Commission of the National Romanian Lithothèque - Geological Institute since October 2019 until present.

## **Drivers licence : B category**

Other informations and annexes: supplied on request