

PERSONAL INFORMATION



Cristian Vasile Arion

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✉ Cristian.arion@utcb.ro



Sex M | Date of birth 11/03/1973 | Nationality Romanian

WORK EXPERIENCE

October 2015 – present

Associate Professor of Structural Reliability and Risk Analysis

Technical University of Civil Engineering, Bucharest, Lacul Tei 124, Bucharest, www.utcb.ro

- Teaching and Research/Design engineer
- Business or sector** Higher Education

February 2008 - September 2015

Lecturer

Technical University of Civil Engineering, Bucharest, Lacul Tei 124, Bucharest, www.utcb.ro

- Teaching and Research/Design engineer
- Business or sector** Higher Education

October 1997 - January 2008

PhD student, researcher

Technical University of Civil Engineering, Bucharest, Lacul Tei 124, Bucharest, www.utcb.ro

- Teaching and Research/Design engineer
- Business or sector** Higher Education

October 2002 - August 2010

Chief of Division Technical Experimentation for Soil and Structures, researcher

National Center for Seismic Risk Reduction, Bucharest, Sos. Pantelimon 266

- Research/Design engineer
- Business or sector** Research Institute Education

May 2001 - September 2002

Design Engineer

MIRO GRUP S.R.L.

- Member of the team for the structural design projects: Tour Place de la Victoire (architect Galmard architect s.a.r.l.) Bucharest.
- Business or sector** Construction

July 1996 - October 1997

Design Engineer

INGINERIE CIVILA S.R.L.

- Seismic design of Reinforced Concrete Buildings. Member of the team for the structural design projects of: Marriott Grand Hotel, 55 Mihai Voda street - GF+8st., National Stadium, 253 Calea Calarasilor street GF+8st.; Chief of the structural design project of RGAB Sector 2 headquarter.
- Business or sector** Construction

EDUCATION AND TRAINING

January – June 2004

Certificate of graduation

International Institute of Seismology and Earthquake Engineering, Tsukuba, Japan
Building Research Institute, Tsukuba, Japan (Ministry of Construction Land and Infrastructure)
Tokyo University (Towhata lab); Waseda University (Hamada lab), Tokyo Soil Research

- Earthquake Engineering, Geotechnical Engineering, Geotechnical Laboratory

November 1997– July 2003

Ph.D. in Civil engineering

Technical University of Civil Engineering, Bucharest

- Structural Reliability and Earthquake Engineering

September 1999 – July 2000

Certificate of graduation

International Institute of Seismology and Earthquake Engineering, Tsukuba, Japan
Building Research Institute, Tsukuba, Japan (Ministry of Construction Land and Infrastructure)

- Earthquake Engineering

October 1996– September 1997

Master degree

Technical University of Civil Engineering, Bucharest, Faculty of Civil Engineering

- Geotechnical Engineering. Thesis of "Methods of Systematization Geotechnical Results Tests"

February. 1997– September 1997

Certificate of Practice

CEDEX, Madrid, Ministerio de Fomento de Espana, TEMPUS scholarship

- Geotechnical Laboratory, Performed Static and Dynamic Triaxial test

September 1991– July 1996

Civil engineer

Technical University of Civil Engineering, Bucharest, Faculty of Civil Engineering

- Civil engineering – Thesis of "Guide for Design of Reinforced Concrete Buildings"

PERSONAL SKILLS

Mother tongue(s)

Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	B2
Replace with name of language certificate. Enter level if known.					
Spanish	C1	C1	C1	C1	B1
Replace with name of language certificate. Enter level if known.					

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills

- I am experienced at working in a European dimension such as being a member of an international research team for at least 52 months in the last 15 years.

Organisational / managerial skills

- I worked as head of laboratory of 5-10 people in the last 10years.

Job-related skills

- I have worked in several types of teams, mostly research and development teams.

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

Driving licence

category B from 1992

Publications

- Arion, C., 2017. Evaluarea vulnerabilității rețelelor de utilități și a facilităților esențiale. (in Romanian). Editura Conspress, Bucuresti, 248 p., ISBN 978-973-100-458-7
- Văcăreanu, R., Aldea, A., Lungu, D., Pavel, F., Neagu, C., Arion, C., Demetriu, S., Iancovici, M. (2016). Probabilistic Seismic Hazard Assessment for Romania. In: D'Amico, S. (Eds) Earthquakes and Their Impact on Society, Springer Natural Hazards Book Series, p. 137-169,
- Văcăreanu, R., Pavel, F., Aldea, A., Arion, C., Neagu, C. (2015). Elemente de analiză a hazardului seismic (in Romanian), Editura Conspress, 215p., ISBN 978-973-100-386-3
- Văcăreanu, R., Seki, M., Chesca, A.B., Lungu, D., Aldea, A., Arion, C. (2012). Seismic and wind response control of buildings with supplemental energy dissipation devices. Case studies in Bucharest. UNESCO-IPRED-PUC International Workshop Santiago de Chile, Chile, 2011
- Lungu D, Arion C., 2012. Intervention Strategies, Chapter 5. Volume 1 - Intervention strategies for the seismic protection of historical building heritage in the Mediteranian basin, pp.313-pp.393 in Polimetrica International Scientific Publisher ISBN 978-88-7699-169-1.
- Lungu, D., Vacareanu, R., Aldea, A., Arion, C., 2000. Advanced Structural Analysis, Conspress, UTCB, 177 p., ISBN 973-8165-15-6

Projects

- Participation in international scientific projects
- IPRED - International Platform for Reducing Earthquake Disaster – 2007-present
 - ANDROID-Academic Network for Disaster Resilience to Optimise Educational Development – 2012
 - JICA Technical Cooperation Project for Seismic Risk Reduction for Buildings and Structures in Romania, financed by Japan International Cooperation Agency – Coordinator – Director of the National Centre for Seismic Risk Reduction – Project Implementing Agency – 2002-2008
 - IAEA CRP-NFE Camus Benchmark - IAEA Research Contract No: 12146/RBF - Numerical Simulations and Engineering Methods for the Evaluation of Expected Seismic Performances – Researcher – 2002-2005
 - RISK-UE "An advanced approach to earthquake risk scenarios with applications to different European towns", financed by European Commission, Fifth Framework, Researcher – 2001-2004
 - NEMISREF "New methods of mitigation of seismic risk on existing foundations", financed by European Commission, Fifth Framework, Researcher – 2002-2005
 - Collaborative Research Centre (CRC) 461 of SFB, Germany: Strong Earthquakes: A Challenge for Geosciences and Civil Engineering" at Karlsruhe University – Researcher – 2000-2007
 - COST Action C26: "Urban Habitat Constructions Under Catastrophic Events", Working Group 2 "Earthquake Resistance"
 - Vibration measurements for buildings, ground and underground.
 - Consultant to private companies: Saint Gobain, Paul C. Rizo Associates, Setelcom, BECA, FUGRO
 - Consultant for World Bank Projects in Romania
 - Evaluator of technical proposals and research projects for domestic and international bodies
 - Co-author – Romanian Seismic Evaluation and Seismic Retrofitting Code – P100-3
 - Co-author – Romanian Earthquake Resistant Design Code – P100-1/2006 & 2013 editions
 - Co-author – Romanian Code on Wind Loads CR 1-1-4-2012,
 - Co-author – Romanian Code on Basis of Structural Design, CR 0-2012
 - Co-author – Romanian Code on Snow Load, CR 1-1-3-2012
 - Co-worker at research/consultancy projects on: Seismic hazard, vulnerability and risk assessment, earthquake engineering, Earthquake resistant design of buildings, Seismic evaluation of existing buildings structural reliability and wind engineering

Honours and awards

- General Association of Engineers of Romania Award for the book "Constructii amplasate in zone cu miscari seismice puternice" by Aldea, A., Arion, C., Ciutina, A., Cornea, T., Dinu, F., Fulop, L., Grecea, D., Stratan, A., Văcăreanu, R. – coordinated by: Dubina, D., Lungu, D. 2003., Editura Orizonturi Universitare, Timisoara
- The International Emergency Management Society TIEMS 2011 Award for best Romanian paper at 18th TIEMS Annual Conference, Bucharest, Romania 7th - 10th June, 2011
- Reviewer for: Journal of Asian Earth Sciences, Natural Hazards
- Evaluator of technical proposals and research projects for domestic and international bodies

Memberships

- Romanian Association for Earthquake Engineering
- Romanian Association for Wind Engineering

Courses

- Structural Reliability and Risk Analysis – undergraduate level
- Reliability of Structures Subjected to Natural Hazards & Seismic Vulnerability and Risk & Urban Seismic Risk – Graduate level

https://www.researchgate.net/profile/Cristian_Arion

<https://publons.com/researcher/2779993/cristian-v-arion/>

<https://scholar.google.ro/citations?user=1F6vOLgAAAAJ&hl=ro>