

Zurab Javakhishvili

personal information

Contact Details

Email address:

Full name: Zurab Javakhishvili

zurab_javakhishvili@iliauni.edu.ge Call number:

Gender: Male

Citizenship: საქართველო

Country: საქართველო (Georgia)

(Georgia)

City: Tbilisi

Languages

Language	Writing	Reading	Speaking
Russian	C1	C2	C1
English	C1	C2	C1

Education

Academic degree

Academic Degree: Doctoral/PhD, Ed.D or other equivalent

Year obtained: 23.05.1995

Education

Academic Degree	Name of the Institution	Country	Major discipline	Start year	End year
Master/MS, MA, MR, MBA, m.Ed or other equivalent	Tbilisi State University	საქართველო (Georgia)	Physics, Geophysics	1975	1980
Doctoral/PhD, Ed.D or other equivalent	Institute of Geophysics, Georgian Academy of Sciences	საქართველო (Georgia)	physics and mathematics		1995

Trainings / Seminars / Training courses

Training / Seminar / The theme of the course	Organization name	Start year	End year
International Visitor Leadership Program on "Development of maritime Archeology"	US State Department, Bureau of Educational and Cultural Affairs	2011	2011
Introduction to Japan Disaster Relief Activities and Disaster prevention System	Okinawa International Center	2000	2000
Seismology and Earthquake Engineering	Building Research Institute, Ministry of Construction, Tsukuba, Japan	1998	1998
Active Faulting and Paleoseismology	European Center for Geodynamics and Seismology, Luxembourg	1998	1998
Seismology and Seismic Hazard Assessment	GeoForschungZentrum, - Potsdam, Germany	1994	1994

Projects

Ongoing projects

Project title	Position	Project head	Start Date	Donor
Hazard assessment and dynamic analyses of the processes of mud and debris flow-prone gorges of Tbilisi area in VR environment - a research concerning climate change	Researcher	Lasha Sukhishvili	19.12.2023	Shota Rustaveli National Scientific Foundation FR-23-16026
Active Deformations and Magnitude of Shortening in the Western Kura Fold-Thrust Belt	Project head	Zurab Javakhishvili	13.03.2020	Shota Rustaveli National Science Foundation Of Georgia
Strengthening the Climate Adaptation Capacities in the South Caucasus	Expert	Nina Shatberashvili	10.11.2017	Swiss Agency for Cooperation and Development (SDC)

Completed projects

Project title	Position	Project head	Start Date	End Date	Donor
Enhancing the Understanding of Earthquake Impacts in Georgia - Study of Seismic Risk to Emergency Response Facilities	Seismic hazard and risk assessment expert	Matthew Free	01.03.2020	01.02.2023	World Bank
Implementation of rapid fault plane solution of regional earthquakes and warning system for Georgia	Researcher	Tea Godoladze	20.12.2017	16.11.2023	Shota Rustaveli National Scientific Foundation FR17_454
High mountain large lakes as a key components of local environment, study of natural and man-made impacts	Researcher	Mikheil Elashvili	30.11.2016	30.11.2019	ISTC (International Science and Technology Center), G-2153
A Black Sea network promoting integrated natural waste water Treatment systems – WASTEnet .	Researcher	Ketevan Kupatadze	01.07.2013	30.06.2015	EU operational programs under the European Neighborhood & Partnership Instrument (ENPI)
Seismic hazard assessment of Caucasus	Researcher	Tea Godoladze	25.04.2013	24.04.2016	Shota Rustaveli National Scientific Foundation, FR/536/9-140/12
Caucasus Seismic Emergency Response (CauSER)	Partner Project Director (PPD)	Eileen Vergino	01.07.2009	20.12.2014	NATO SFP 983284
Open network of Scientific Centers for Mitigation Risk of Natural Hazards in the Southern Caucasus and Central Asia	Scientific leader	Hector Babayan	01.01.2008	24.04.2012	ISTC (International Science and Technology Center) A1418
Seismic hazard and risk assessment of Georgia – modern approach	Scientific leader	Zurab Javakhishvili	01.01.2008	31.12.2010	GNSF 964/07
Velocity structure of Georgia and adjacent territories and determination of dynamical source parameters of earthquakes in caucasus	Researcher	Tea Godoladze	20.12.2006	20.12.2008	GNSF 728/07
Caucasian Seismic Information Network for Hazard and Risk Assessment (CauSIN)	co-manager	Serguei Nazaretyan	01.01.2002	30.11.2005	ISTC (International Science and Technology Center) A651
Seismic Risk in large Cities of Caucasus. Tools for Risk Management	Researcher	Jean Bonnin	15.04.2001	31.10.2005	NATO SFP 974320.

Scientific Fields (2018-2020)

Main Field

Field: 1. Natural sciences

Sub-Field: 1.5 Earth and related environmental sciences

Additional Field (1)

Field: 7. Georgian studies

Sub-Field: 7.1 Natural Studies

Subject area: 7.1.5 Earth and related environmental sciences

Additional Field (2)

Field: 1. Natural sciences

Sub-Field: 1.5 Earth and related environmental sciences

Subject area: 1.5.12 Other

Scientific Fields (2021-2024)**Main Field**

Field: 1. Physical Sciences and Engineering

Sub-Field: 1.10 Earth System Science

Subject area: 1.10.7 Physics of earth's interior, seismology, geodynamics

Additional Field (1)

Field: 1. Physical Sciences and Engineering

Sub-Field: 1.10 Earth System Science

Subject area: 1.10.20 Geohazards

Employment History**Current place(s) of employment**

Workplace	Name of the work department	Position	Main responsibilities	Start Date
Ilia State University	School of Natural Sciences and Engineering	Professor	Creation and updating of the programs in Earth Sciences (Bachelor, masters and doctoral programs), research in the field of seismology and other branches of earth sciences, involvement of students in different studies, lecture courses in Earth Sciences programs.	18.04.2011

Work experience

Company/Institution	Name of the department	Position	Main responsibilities	Start Date	End Date
Ilia State University	University	Head of Administration	Coordination of administrative departments of the University, maintenance of study and research, development of infrastructure	21.02.2013	31.03.2014
Ilia State University	School of Engineering	Dean	Development of the school of engineering, organization and coordination of study and research, coordination of bachelor, masters and doctoral programs of the school.	01.02.2011	01.03.2013
Ilia State University	Institute of Earth Sciences	Director	Foundation of the Institute, Organization and coordination of studies in different fields of Earth sciences, creation and organization of learning programs.	01.07.2010	21.02.2013

Company/Institution	Name of the department	Position	Main responsibilities	Start Date	End Date
Iliia State University	Seismic Monitoring Center	Director	Organization of seismic network and observation systems for other related processes. Organization of warning system. Coordination of research in the fields seismology, seismic hazard, earthquake source physics, active faulting and applied seismology.	26.11.2008	01.07.2010
Iliia Chavchavadze State University	School of masters and doctoral programs	Associated Professor	Creation of earth sciences programs (masters and doctoral) lecture courses in seismology and physics of the earth .	03.11.2008	18.04.2011
LEPL Seismic Monitoring Center	Seismic Monitoring Center	Director	Organization and modernization of seismic and other (GPS etc) observational systems. Coordination of seismological, structural and multidisciplinary studies. Coordination of seismic hazard analysis. Creation of warning systems.	01.05.2006	30.10.2008
USSPG (United Survey for Seismic Protection of Georgia, Acad. Sci. Georgia)	USSPG	Director (Head of the Survey)	Rehabilitation/modernization of the seismic network of Georgia. Creation/ modernization of data processing, online transmission, data bases. Coordination of seismological, other geophysical studies, studies concerning to seismic hazard analysis. Creation of the warning system (for seismic events).	01.11.2002	01.05.2006
Inst. of Geophysics, Acad. Sci. Georgia	Inst. of Geophysics	Depute director (scientific)	Organization and coordination of studies concerning to structure of the earth, seismicity and seismic hazard in Caucasus, coordination of multidisciplinary research projects.	01.06.2002	01.05.2006
Inst. of Geophysics, Acad. Sci. Georgia	Department of Seismology	Head of department	Organization of study of earth structure, seismicity and seismic hazard in Caucasus region, compilation/updating of seismic database	16.10.1995	01.11.2002
Institute of geophysics, Academy Sciences of Georgia	Department of Seismology	Senior researcher	Study of source parameters of strong earthquakes, study of earth structure , seismicity and seismic hazard of Caucasus	16.11.1993	16.10.1995
Institute of geophysics, Academy Sciences of Georgia	Department of Seismology	Researcher	Study of earthquake source parameters using theoretical seismograms, study of seismicity of Caucasus	01.06.1989	16.11.1993
Institute of geophysics, Academy Sciences of Georgia	Department of Seismology	Junior researcher	Estimation of earthquake parameters, participation in crustal structure research, seismicity and seismic hazard analysis	16.12.1986	01.06.1989
Institute of geophysics, Academy Sciences of Georgia	Department of Seismology	Senior Engineer	Organization of the field seismic observations, seismic data processing and analysis	01.08.1982	16.12.1986
Institute of Geophysics, Academy of Sciences of Georgia	Department of seismology	engineer	Maintenance of field seismic equipment	01.10.1980	01.08.1982

Scientific Productivity

Article / Monograph / Manual

Type	Authors	Publication title	Source title	Year
Article	Godoladze et al.	Compilation of a Comprehensive Earthquake Catalog and Relocations in the Caucasus Region	Seismological Research Letters; DOI: 10.1785/0220230206	2024
Article	Onur, T., R. Gok, T. Godoladze, I. Gunia, G. Boichenko, A. Buzaladze, N. Tumanova, M. Dzmanashvili, L. Sukhishvili, Z. Javakishvili, E. Cowgill, I. Bondár, G. Yetirmishli	Probabilistic Seismic Hazard Assessment Using Legacy Data in Georgia	Seismological Research Letters (2020) 91 (3): 1500–1517	2020
Article	Shengelia I., N. Jorjiashvili, T. Godoladze, Z. Javakishvili, N. Tumanova	Intrinsic and Scattering Attenuations in the Crust of the Racha Region, Georgia	Journal of Earthquake and Tsunami, 3000, 14, No. 2	2020

Type	Authors	Publication title	Source title	Year
Article	L. Sukhishvili, A. M. Forte, G. Merebashvili, J. Leonard, K. X. Whipple, Z. Javakhishvili, A. Heimsath and T. Godoladze	Active deformation and Plio-Pleistocene fluvial reorganization of the western Kura fold–thrust belt, Georgia: implications for the evolution of the Greater Caucasus Mountains	Geological Magazine, Volume 158 Issue	2020
Article	Sokhadze, G., M. Floyd, T. Godoladze, R. King, E. S. Cowgill, Z. Javakhishvili, G. Hahubia, R. Reilinger	Active convergence between the Lesser and Greater Caucasus in Georgia: Constraints on the tectonic evolution of the Lesser–Greater Caucasus continental collision	Earth and Planetary Science Letters 481:154-161	2018
Article	Matcharashvili T., T. Chelidze, Z. Javakhishvili, N. Zhukova	Variation of the scaling characteristics of temporal and spatial distribution of earthquakes in Caucasus	Physica A: Statistical Mechanics and its Applications 449 (2016), 136-144	2016
Article	E. Cowgill, A. Forte, N. Niemi, B. Avdeev, A. Tye, Ch. Trexler, Z. Javakhishvili, M. Elashvili, T. Godoladze	Relict basin closure and crustal shortening budgets during continental collision: An example from Caucasus sediment provenance	Tectonics, v. 35, Issue 12, 2918-2947	2016
Article	Chelidze T., T. Matcharashvili, Z. Javakhishvili, N. Zhukova, N. Jorjiashvili, I. Shengelia, E. Mepharidze, Z. Chelidze, A. Sborshchikov	Temporal and Spatial Variations of Scaling Behavior of Seismic Process in Caucasus	Bull. Georg. Nat. Acad. Sci. vol. 9, no. 2, 2015, 59-64.	2015
Article	Forte A. M., D. Y. Sumner, E. Cowgill, M. Stoica, I. Murtuzayev, T. Kangarli, M. Elashvili, T. Godoladze, Z. Javakhishvili	Late Miocene to Pliocene stratigraphy of the Kura Basin, a subbasin of the South Caspian Basin: Implications for the diachroneity of stage boundaries	Basin Research Volume 27, Issue 3, 247-271	2015
Article	L. Telesca, T. Matcharashvili, T. Chelidze, N. Zhukova, Z. Javakhishvili	Investigating the dynamical features of the time distribution of the reservoir-induced seismicity in Enguri area (Georgia),	Natural Hazards 77(1)	2013
Article	Matcharashvili T., L. Telesca, T. Chelidze, Z. Javakhishvili, N. Zhukova	Analysis of temporal variation of earthquake occurrences in Caucasus from 1960 to 2011	Tectonophysics 608 (2013) 857–865	2013
Article	Matcharashvili T., T. Chelidze, Z. Javakhishvili, N. Zhukova, N. Jorjiashvili, I. Shengelia	Discrimination between stochastic dynamics patterns of ambient noises (case study for Oni seismic station).	Acta Geophysica, Volume 61, Issue 6, pp 1659–1676	2013
Article	Matcharashvili T., T. Chelidze, Z. Javakhishvili, N. Jorjiashvili, N. Zhukova	Scaling features of ambient noise at different levels of local seismic activity: A case study for the Oni seismic station	Acta Geophysica. Volume 60, Issue 3, pp 809-832	2012
Article	Jorjiashvili N., T. Yokoi, Z. Javakhishvili	Assessment of uncertainties related to seismic hazard using fuzzy analysis.	Natural Hazards 60:501–515	2012
Article	Gök, R., R. J. Mellors, E. Sandvol, M. Pasyanos, T. Hauk, R. Takedatsu, G. Yetirmishli, U. Teoman, N. Turkelli, T. Godoladze, Z. Javakhishvili	Lithospheric velocity structure of the Anatolian plateau-Caucasus-Caspian region	Journal of Geophysical Research, Vol. 116, B05303, 14	2011
Article	I. Shengelia, Z. Javakhishvili, N. Jorjiashvili	Coda Wave Attenuation for Three Regions of Georgia (Sakartvelo) Using Local Earthquakes	Bulletin of the Seismological Society of America, 101: 2220 – 2230	2011
Article	Wyss M, M. Elashvili, N. Jorjiashvili and Z. Javakhishvili	Uncertainties in Teleseismic Earthquake Locations: Implications for Real-Time Loss Estimates	BSSA, Vol. 101, No. 3	2011
Article	Matcharashvili T., T. Chelidze, Z. Javakhishvili, N. Jorjiashvili and U. Fra Paleo	Non-extensive statistical analysis of seismicity in the area of Javakheti, Georgia	Computers & Geosciences	2011
Article	Matcharashvili T., Chelidze, T., Javakhishvili Z	Dynamics, Predictability and Risk Assessment of Natural Hazards	in NATO Science for Peace and Security Series E: “Human and Societal Dynamics – vol. 58. Building Safer Communities, Risk Governance, Spatial Planning and responses to Natural Hazards” IOS press. 2009. 148-161	2009

Type	Authors	Publication title	Source title	Year
Article	Slejko D., Z. Javakhishvili, A. Rebez, M. Santulin, M. Elashvili, P.L. Bragato, T. Godoladze and J. Garcia	Seismic hazard assessments for the Tbilisi test area (Eastern Georgia)	Bolletino di geofizika: Teorica ed Applcata. Vol. 49, n. 1, pp. 37-57.	2008

Participation in scientific events

Scientific event name	Title of the presentation	Event venue	Year
36th General assembly of the European Seismological Commission	Re-estimation of macroseismic parameters of historical and early instrumental earthquakes on the territory of Georgia	Valletta, Malta	2018
Regional Workshop on Seismic Risk Reduction	Seismicity of Georgia and experience in retrofitting of cultural monuments	Tehran and Bam, Islamic Republic of Iran	2017
AGU (American Geophysical Union) fall meeting,	Problems of the active tectonics of the Eastern Black Sea	San-Francisco, USA	2016
European Geosciences Union (EGU) General Assembly	1. 3D Virtual Reality Applied in Tectonic Geomorphic Study of the Gombori Range of Greater Caucasus Mountains 2. Seismic databases and earthquake catalogue of the Caucasus	Vienna, Austria	2016
AGU (American Geophysical Union) fall meeting,	Seismic source models for probabilistic hazard analysis of Georgia (Southern Caucasus)	San-Francisco, USA	2014
AGU (American Geophysical Union) fall meeting,	Seismicity studies and tectonic settings of the Caucasus; The past and the Future	San-Francisco, USA	2012
15 years in the NATO SPS (Science for Peace and Security) seismic projects workshop	Caucasus Seismic Emergency Response (CauSER)	Istanbul, Turkey	2012
AGU (American Geophysical Union) fall meeting,	1. Seismicity study of Javakhety highland (Southern Georgia) 2. Investigation of active fault scarps by means of geophysical prospecting methods, Javakhety fault case, Georgia	San-Francisco, USA	2011

Productivity index

#	Citation index	h-index
Google scholar	691.00	14.00
Scopus	390.00	10.00
Web of science	385.00	12.00