



Georgian National Academy of Sciences



Personal Data (CV)

Surname	Gamkrelidze	Name	Irakli
Address (work, home)	52 Rustaveli av. (Work) 52 Paliashvili str. (Home)	Data and place of berth	08.05.1933, Tbilisi
Citizenship	Georgian	Telephones	2996 ¹ 45 (work), 2223294 (home), 599246150 (mob.)
E-mail	gamkrelidze77@gmail.com		

3. Education

Education	Institution	Time of study
Secondary	Tbilisi #7 railway school	1941-19 ² 1
Higher	Georgian Polytechnical institute	1951-1956
Postgraduate ship, work for doctor's thesis		
Foreign languages	Level of mastery (free, medium, with help of dictionary)	
Russian	Free	
English	Free	
German	Free	
	Powered by name	Data of gicing
Candidates Dissertation	The structure of Racha-Lechkhumi syncline	1963
Doctoral Dissertation	Mechanism of formation of tectonic structures and some general problems of tectonogenesis	1974

¹ . Knowledge of Languages

² . Scientific or Academic Degree and Rank

Academic Doctor		
Professor	Geology	1985
Corresponding Member of the Academy		1983
Member of the Academy		1988

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6. Work Experience

Data	Institution	Position
1957-1958	Geological and paleontological department of the Tbilisi State University	Laboratory assistant
1958-1961	Geological institute of Georgian Academy of Sciences	Postgraduate student
1961-1966	Geological institute of Georgian Academy of Sciences	Junior scientific researcher
1966-1875	Geological institute of Georgian Academy of Sciences	Senior scientific researcher
Since 1975	Geological institute of Georgian Academy of Sciences	Head of the department of the tectonics, regional geology and seismotectonics
Since 1988	Georgian National Academy of Sciences	Head of the Earth sciences department

6.1 Teaching Activity

Data	Institution	Position
1969-1974	Georgian Polytechnical Institute	Lecturer
1874-1976	Georgian Polytechnical Institute	Assistant Professor
1976-1996	Georgian Polytechnical Institute	Professor

6.2. Work Abroad

Form of work	Data	Place and Institution
Delivering a lecture course at a foreign higher educational institution	19-22/11 and 22/11-3/12, 1994	Cambridge University
	22-24/11, 1994	Edinburg University
Long-term mission to research institutions	1967-1968	German Federal Republic
Other	1968-2012	Lectures at the universities and scientific institutions of Munich, Warsaw, Bratislava., Sophia, Bucharest, Prague, Vienna, Paris, Rome, Fribourg, Moscow and other cities of former Soviet Union

7. Spare of Scientific Interests

Structural geology and geotectonic, structural geology, mechanism of tectonic structure formation, morphologic-kinematical features and genesis of tectonic nappes, geodynamic evolution of the Mediterranean mobile belt and seismotectonics, horizontal tectonic layering of the lithosphere, geodynamic conditions of magmatic and metamorphism processes.

8. Publications (Total number, Point out the Citation Index (number))

Total number – more than 200; Citation index according to Google Scholar (Irakli Gamkrelidze)– 860, h index 15, i10-index -26, Researchgate (Irakli Gamkrelidze) 915, h index – 15;.

8.1 Monographs

Years	
1966	Structure of the Racha-Lechkhumi syncline. Proceedings of the Geol. Inst. of Georg. Acad. Sci. , New series, vol. 7, 102 p. (in Georgian) .
1976	Mechanism of tectonic structure formation and some general problems of tectogenesis // Geological Institute Proceedings. New Series, Vol. 52, 226 p. (in Russian with English summary).
1977	Tectonic nappes of the southern slope of the Greater Caucasus // Geological Institute Proceedings, Vol. 57, 82 p. (in Russian with English summary) (Co-author P.D. Gamkrelidze)
1982	Alpine structural elements: Carpathian-Balkan-Caucasus-Pamir orogene zone. Edit. M.Mahel. (co-authors: M.Mahel et al.). 211 p.

1984	Geology of Central Adjara-Trialeti and problem of formation of Borjomi mineral water // Proceedings GIN of Georg. Acad. Of Sci., New Ser. Geol. N 1, Vol. 83, 82 p. (co-author G.P.Lobjanidze). (in Russian).
1985	South Black Sea volcanic belt and its metallogeny. Moscow, Nauka, 95 p. (co-authors: A.Mikhailov, G.Tvalchrelidze, M.Lordkipanidze, G. Nadareishvili et al.) (in Russian).
1991	Geological structure of Assa-Aragvi section of the Greater Caucasus. Tbilisi, Mecniereba, 120 p. (co-authors: M.Beridze et al.) (in Russian).
2005	Precambrian-Paleozoic regional metamorphism, granitoid magmatism and geodynamics of the Caucasus// Moscow, Scientific words, 458 p. (in Russian, with English Summary), (co-author: D. Shengelia).
2013	Geography of Georgia, Tbilisi State University, 324 p. (coauthors: group of authors) (in Georgian)
1984	Tectonic and metallogeny of the Caucasus // Proceedings of GIN of Georg. Acad. of Sci., Vol. 86., 324 p. (coauthors: A.Tsagareli et al.) (in Russian).

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8.2 Principal Papers

Years	
1969	Structure and development of the southern slope of the Greater Caucasus and Georgian block // Geotectonic, N4, pp. 72-84.
1972	Planetary jointing of dislocated rocks and connected with it phenomena// Geotectonic, N6, p.45-54.
1974	Adjara-Trialeti trough and problem of origin of Black Sea basin // Geotectonic, N 1, pp. 78-94. (Co-authors: Sh. Adamia et al.).
1974	Lateral zonality of basaltoids of Black Sea – Adjara- Trialeti paleorift. Dokl. AN SSSR, t.216, N.4, pp.901-903 (co-authors: Sh.Adamia et al.), (in Russian).
1977	Tectonic development of Anatolian-Caucasus-Iran segment of the Mediterranean belt // Geotectonic, N3, pp.25-37.
1977	Models of geodynamic evolution of the Caucasus // Geotectonic, N 5, pp.125-129.
1977	Main trend of tectonic development of the Caucasus and adjacent areas of the Mediterranean belt// Himalayan Geology, vol. 7, pp.43-45.
1978	Zaclude crty tektoniky Kaukazu a Zapadnich Karpat // Geologicke prace (Bratislava), Sp 69, pp. 21-80 (Coauthors: P. Gamkrelidze, A. Biely, O. Fusan).
1979	Die paleozoische entwicklung des Kaukasus und angrenzenden gebiete des Mediterran-Guertels//Zeitschrift fur Geologische Wissenschaften Varizische Tectogene Eurasiens, Teil II Jahrgang 7, Heft 10, S. 1249-1257.
1981	Ophiolites of the Dzirula Massif and problem of Paleotethis in the Caucasus// Geotectonics, N5, p.23-33. (coauthors: G.D.Dumbadze et al.)
1981	Thrust zone of the Krizna nappe at stoly in the Tatra MTS (Poland)// Studia Geologica Polonica (Warszawa). Vol. LXVIII, p.72-82, (Co-authors: M.Bac-Moszaszwili et al.)
1982	On joint of the Adjara-Trialeti fold zone and the Dzirula massif// Dokladi AN USSR, t. 266, # 1, pp. 196-198 (coauthors: L.Basheleishvili, V.Burtman) (in Russian)
1982	Nappe structures of the Caucasus. In “Alpine structural elements: Carpathian – Balkan- Caucasus – Pamir orogene zone (Bratislava), Veda, pp. 95-114.
1984	To the investigation of tectonic structure of the Caucasus// Geologicke Prace (Bratislava), Sp. 80, pp. 39-45.
1984	Peculiarities of mechanism of formation of nappe structure of the Caucasus and the Southern Carpathians // Geologicke Prace (Bratislava), Sp. 80, pp. 101-106.
1985	Experiments with modeling of transformed folded structures in some zones of the Greater Caucasus // Bull. of Georg. Acad. of Sci., vol. 120, N 2, pp. 340-346. (Co-authors: T.V.Giorgobiani et al.).
1985	History of formation of Mediterranean belt formation in Mesozoic and Cenozoic// Geotectonic, N 3, pp. 91102. (Co-author A.L.Knipper).
1986.	Geodynamic evolution of the Caucasus and adjacent areas in Alpine time//Tectonophysics, vol. 127, p.261-267
1987	Structure of Kvaisa ore-bearing zone (Georgia) // Ivestia AN SSSR, Ser. Geol., N1, pp. 96-105. (in Russian, coauthor F.D.Maisadze).
1988	Alpine geodynamics of the Caucasus and adjacent areas // Studia Geologica Polonica (Warszawa), vol. XCI, pp. 61-75.
1988	Nappe tectonic of the Caucasus segment of the Alpine belt. In “Actual problem of tectonics of USSR”. Moscow, Nauka, pp.60-66 (co-authors Sh.Adamia, A.Knipper) (in Russian)
1989	Geodynamic evolution and mechanism of structure of the Mediterranean fold belt. In “Geodynamic of the Caucasus”, v. 99, pp. 79-89. (in Russian).
1990	Kinematics of the Alpine deformation of the Caucasus and adjacent areas// Mechanics of jointed and faulted rock, Balkema-Rotterdam (Brookfield), p.183-186 (Co-author T. V. Giorgobiani).

	Balkanides and Caucasus)// Tectonophysics, vol. 196, p.385-396.
1996	Macera nappe in crystalline core of the Greater Caucasus and its geological significance// Bull. Geogr. Acad. Sci., vol.154, N1, p.84-89 (Co-authors: D.Shengelia, G.Chichinadze)
1997	Georgia// Encyclopedia of European and Asian regional geology// Chapman and Hall , p. 256-281.
1998	Active deep faults map and catalogue of the territory of Georgia // Bull. of Geogr. Acad. of Sci., Vol. 157, N 1, pp. 80-85. (Co-authors: T.V.Giorgobiani et al.).
1998	Stress vector orientations and movement of the Earth's crust of the territory of Georgia on the neotectonic stage // Bull. of Geogr. Acad. of Sci., Vol. 158, N2, pp. 283-287. (Co-author S.Kuloshvili).
1999	New data on the geological structure of the Locki crystalline massif//Bulletin of the Georgian Academy of sciences. Vol. 160.-N1.-Pp.93-97 (Co-authors: D. Shengelia, I. Shvelidze, G. Vashakidze).
1999	Petrogenetic model of the Dzirula crystalline massif magmatites in the light of tectonic layering of the Earth's crust//Bulletin of the Georgian Academy of Sciences. Co-author D. Shengelia.
2000	Geostructural basis and geophysical investigations for the seismic hazard assessment and prediction in the Caucasus //IL NUOVO CIMENTO. - Vol.23. - ?2. - Pp.191-215. (Co-authors: M. Caputo et al.)
2000	Once more on the tectonic zoning of the territory of Georgia. Summary//Geological Institute proceeding. New series. Vol.115. Transactions of the Scientific sessions dedicated to the 110 th anniversary of academician A. Janelidze. P. 204-208 (in Russian)
2001	Origin of the igneous rocks of the Dzirula crystalline massif (Caucasus) in the light of the tectonic layering of Earth's crust // Geotectonics, vol. 35, N1, p.51-60. (co-author: D.Shengelia).
2002	Geodynamic typification of Precambrian-phanerozoic magmatism of Georgia. // Georgian Academy of Sciences. A. Janelidze Geological Institute. Proceeding. New series.Vol. 117. - p. 105.-126 Co-authors: O.Z. Dudauri, G.Sh. Nadareishvili, N.i. Skhirtladze, B.D. Tutberidze, D.M. Shengelia.
2004	Precambrian of the Caucasus // Mineralogical Journal (Ukraine) v. 26, N3, pp. 53-61 (in Russian) (Co-authors: D.M. Shengelia et al.).
2005	Some questions of thermo-geodynamics of the Caucasus and the Black and the Caspian Seas water areas// J. Georgian Geophysical society, vol. 9a, p. 58-63. (Co-authors: G.Gugunava et al.)
2005	Precambrian regional metamorphism, magmatism and geodynamics of the Caucasus. Inst. of Earth Sciences // Budelkhand University, Jhansi, India, pp. 197-200(Co-authors: D.M. Shengelia et al.).
2007	Pre-Alpine geodynamics of the Caucasus, suprasubduction regional metamorphism and granitoid magmatism// Bull. Geogr. National Acad. Sci., 2007, vol. 175, N1, p.57-65 (co-authors: D. Shengelia).
2008	Tbilisi fault and seismic activity of Tbilisi environs (Georgia)// A.Janelidze geological institute Proceedings, New series, vol. 124, p. 30-35 (co-authors: T.Tsamalashvili et al.).
2008	On genesis of Tbilisi olistostroms // A.Janelidze Geological institute Proceedings, New Ser. Vol. 124, pp. 24-29. (co-authors: G.Sh.Nadareishvili et al.)
2010	Guide book of geological excursion of the International Scientific Conference “Problems of geology of the Caucasus”, Tbilisi, pp. 1-35. (co-authors: F.Maisadze et al.).
2010	Some new consideration on the age , composition, geological position and genesis of olistostromes of the southern slope of the Greater Caucasus// Bull. Geogr. National Acad. Sci., 3, # 2, pp. 103-115. (co-author F. Maisadze)
2011	New data on the U-Pb zircon age of the pre-Alpine crystalline basement of the Black Sea – Central Transcaucasian terrane and their geological significance. Bull. Geogr. Nat. Acad. Sci. Vol. 5, # 1, pp 64-76. (coauthors: D.M.Shengelia et al.).
2012	Tectonic map of Georgia (1:1000 000). Tbilisi. (co-authors: M. Pruidze, M. Gamkrelidze, M. Loladze). In National Atlas of Georgia
2012	Geological map of Georgia (1:1000 000). Tbilisi. In National Atlas of Georgia
2012	Pre-Alpine geodynamics multi-stage regional metamorphism and granitoid magmatism of the Caucasus. In: “Natural cataclysm and global problems of the modern civilization “. Istanbul, pp.208-217.
2013	Tectonic map of Georgia (1:500 000). Publisher: “Meridiani” (co-authors: M.Pruidze , M.Gamkrelidze, M.Loladze).
2014	Precambrian regional metamorphism and magmatizm of Georgia and geodynamics of the Caucasus// Mineralogical Journal, 36. # 3, pp 98-112. (co-authors: D.Shengelia et al.).
2015	New tectonic map of Georgia (Explanatorynote).Bull. of Geogr. National Acad. of Scienc. Vol. # 1,pp.111 - 119
2015	Tectonics in the Greater Caucasus: a N-S section along the Georgian Military Road Meeting. 13 th Swiss Geoscience Meeting, Basel (Switzerland), Abstracts. pp.55-56 (coauthors: J. mauvili, K. Koiava and J. Mosar)
2016	Formation conditions of Upper Eocene olistostromes and retro-overthrust at the southern slope of the Greater Caucasus. Geotectonics #6, pp. 698-607

2016	Tectonics in the Georgian Greater Caucasus: a structural cross-section in an inverted rifted basin Setting. 14 th Swiss Geoscience Meeting, Abstracts. p.61-68 (co-authors: J. Mauvilly, K. Koiava and J. Mosar)
2016	Geological structure of Georgia and geodynamic evolution of the Caucasus. Proceedings of IGCP Forth Plenary Conference, pp.69-76
2017	Petrology, geochemistry and formation conditions of metaophiolites of the Loki crystalline massif. ICGPE 2017: 19 th Internationale Conference on petroleum engineering, Madrid, Spain, Internationale Journal of Geological and Environmental Engineering, Vol. 4,#9, p.1-3
2017	New U-Pb isotope-geochronological data on the buulgen metamorphic complex and on the associated with it prealpine magmatism of the greater Caucasus Main Range zone. Mineralogical society of Georgia, 3 th International scientific-Practical Conference on Up-to-date problemes of geology. Abstracts, Tbilisi, Georgia., p.19-21 (coauthors: D.Shengelia et al).
2018	Petrology, geochemistry and formation condition of pre-Alpine metabasites of the Loki crstalline massif (the Caucasus). Bull .of Georg. National Acad. of Scienc. Vol.12, # 4 ,pp.111 – 119 (co-authors D.Shengelia et al.)
2018	Geological map of Georgia and explanatory note (M 1:100 000). In National Atlas of Georgia, Steiner-Verlag, Stuttgart.
2018	Tectonic map of Georgia and explanatory note (M 1:100 000). In National Atlas of Georgia, Steiner-Verlag, Stuttgart.

8.3 Textbooks, Manuals, and other Methodological Literature and Traning applications

Years	
1973	Planetary Jointing . Methodological guide. Leningrad, 175 p. (coauthors S.Shulz et al.) (in Russian)
1976	Methods of structural geology. Textbook for higher institutes, 385 p. (coauthors M.Japaridze et al.) (in Georgian)
1985	Large scale geological survey of metamorphic formations. Methodological guide, Tbilisi, 108 p. (coauthors G.M.Zaridze et al.) (in Russian)

8.5 Participation in Scientific Symposiums, Conferences... (in the last ten years)

Years	Title	Name of Event
2008	Importance of magmatism in formation of continental crust	33 th International Geological Congress, Oslo, Norway
2011	Plate Tectonic and horizontal Tectonic layering of lithosphere the basic conceptions of the external shell of the Earth	33 th International Geological Congress, Oslo, Norway
	Pre-Alpine malty-stage regional metamorphism and granitoid magmatism of the Caucasus	World Forum “Natural Cataclysm and Global Problem of the Modern Civilization” Istanbul
2011	Main stage of pre-Alpine continental crust formation of the Black Sea – Central Transcaucasian terrane	International Symposium on the Geology of the Black Sea Region, Bucharest
2011	Wide choice of geotraverses and geoparks in Georgia	10 th European Geopark Conference, Lazungen, Norway
2013	Main stages of geodynamic evolution of the Caucasian segment of the Alpine-Mediterranean belt	EGU general Assembly, Vena
2015	Geological structure of Georgia and geodynamic evolution of the Caucasus	13 th Swiss International Meeting, Basel (Switzerland)
2015	Tectonics in the Greater Caucasus: a N-S section along the Georgian MilitaryRoud	13 th Swiss International Meeting, Basel (Switzerland)
2016	Geological structure of Georgia and geodynamic evolution of the Caucasus	IGCP Fourth Plenary Conference, Tbilisi, Georgia
2016	Tectonics in the Greater Caucasus: a structural cross section in an inverted rifted basin setting	14 th Swiss International Geoscience Meeting, Geneva
2017	Petrology, Geichemistry and Formation Conditions of Metaofiolites of the Loki Crystalline Massif (the Caucasus)	WASET, 19 th ICGPE, Madrid, Spain
2017	New U-Pb isotope-geochronological data on the buulgen metamorphic complex and on the associated with it pre-Alpine magmatism of the Greater Caucasus Main Range zone	Mineralogical society of Georgia, 3 th International scientific-practical Conference on upto-date problems of geology, Tbilisi, Georgia

9. Organizational Work (Holding Congresses and Conferences, Editorial Work)

Years	Name
1979	International conference “Tectonic nappes of central segment of the Mediterranean belt” (Tbilisi), organizer
1990	International conference “Tectonic structure and geodynamic evolution of the Caucasus”, (Tbilisi), organizer

1975-2003	I.P.Gamkrelidze is an Editor of 52 books and different publications
since 1997	Member of International board of scientific journal "Izvestia AN of Azerbaijan Earth Sciences"
since 1984	Member of editorial board of Georgian encyclopedia
since 1989	Member of editorial board of the Bulletin of the Georgian National Academy of Sciences
2016	IGCP 610 Forth Plenary Conference (Tbilisi), prezident

11. International and Local Scientific grants

Year	Name
1996-1997	NATO LYNCAGE
2002-2005	INTAS (Open call) # 01-242. "Petrology and geodynamics of pre-Alpine complexes in the Caucasian segment of the Mediterranean foldbelt."
2007-2011	ISTC #A-1418 "Open network of scientific Centres for mitigation risk of natural hazards in the Southern Caucasus and Central Asia".
2009-2011	ISTC G-1532 "Creation of thermodynamic model of Caucasus lithosphere and Caspian and Black Sea basins on the basis mathematical model"
2010-2012	SCOPES- IZ73Z0_127933 "Caucasus Tectonics"
2011	DARIUS „Tectonics of the Central Greater Caucasus".
2012	DARIUS "Tectonics of the Lesser Caucasus"
1997-1999	Grant of the Georgian National Academy of Sciences
2006-2009	Grant of Rustaveli National funds (GNSF/st/06/5-037)
2014-2015	Grant of Rustaveli National funds: "English-Georgian geological dictionary"
2014-2017	SCOPES-"Greater Caucasus tectonic and paleotectonic evolution"

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13. Other Activities

	Name	Years
Supervision of Theses and Masters work		
PhD	AA.Kavelashvili	1975-1979
PhD	L.Basheleishvili	1981-1986
PhD	D.Zakaraia	1982-1986
PhD	S.Gongadze	2003-2006
Doctor of Science	A.Moshashvili	1980-1985
Doctor of Science	F.Maisadze	1989-1995
Participation in International, State and Regional Programs	State program:"Geological structure of pass railway route of the Greater Caucasus	1996-1999
	State program: "Geological structures, seismotectonic and engineering geological conditions of Baku-Supsa oil pipeline	2000-2002
	State program: "Seismotectonics and engineering-geological conditions of Baku-Tbilisi Gewhan oil pipeline route	2002
	State program: "Estimation of seismic risk and engineering-geological conditions of Shah Deniz gas pipeline rout	2003

14. Awards and Prizes, Honorary Title

Data	Name of Awards, Prizes, Honorary Title
Since 1976	Member of International Association of Planetology (California, USA)
1976	Honorary diploma of the National economy exhibition of Georgian SSR
1984	Honorary diploma and Silver medal of XXVII International geological Congress
1976-1985	Member of the Commission of International Geological maps
1986	A.Janelidze prize laureate of Georgian national Academy of Sciences
1986-1999	Member of the Commission of the geological Map of the World (Paris)
1976-1990	Member of the interdepartment tectonic Committee of Russia
1988	Honorary diploma of the Slovakia Academy of Sciences
1998	Order of honors of Georgia
2008	A.Tvalchrelidze prize laureate of Georgian National Academy of Sciences
Since 1996	President of the Georgian Geological Society

15. Family Status

Married