

**EUROPEAN
CURRICULUM
VITAE
FORMAT**



JOB REFERENCE NUMBER

PERSONAL INFORMATION

Name Mariam Todadze
Address JAVAKHISHVILI STR.90, TBILISI GEORGIA
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Sito web/Website www.gga.ge www.hggrc.net www.tsu.eu.ge

Nationality Georgian

Date of birth 13/05/1954, Tbilisi, Georgia
Gender Female

**WORK EXPERIENCE –
RADNO ISKUSTVO**

- Dates (from – to) 1978- 2006
- Name and address of employer Institute of Hydrogeology and Engineer Geology of the GAS, Rustaveli Ave 2.
- Type of business or sector Natural Gas Chemistry and Geothermal
- Occupation or position held research worker
- Dates (from – to) 1980-1995
- Name and address of employer The Georgian State Geological Department, Mosashvili Str.24
- Type of business or sector Hydrogeological group
- Occupation or position held Head
- Dates (from – to) 1995-2000
- Name and address of employer Georgian State Geological Department, Mosashvili Str.24
- Type of business or sector Seismohydrogeodeformation Researcher Center
- Occupation or position held Head
- Dates (from – to) 2000-2005
- Name and address of employer Ministry of Environment protection and Natural resource of Georgia, Mosashvili Str.24
- Type of business or sector Seismohydrogeodeformation Researcher Center
- Occupation or position held Director
- Dates (from – to) 2006-2011
- Name and address of employer Institue of Earth Sciences of Ilia State University, Nutsubidze Str.77
- Type of business or sector Research Laboratory
- Occupation or position held Head
- Dates (from – to) 2011-present
- Name and address of employer Ivane Javakhishvili Tbilisi State University M.Nodia Institute of Geophysics, Chavchavadze Ave 1
- Type of business or sector Research Center of Hydrogeology and Geothermy
- Occupation or position held Head of Research Center of Hydrogeophysics and Geothermy

- Main activities and responsibilities

EDUCATION AND TRAINING

- Dates (from – to) 1970-1975
- Name and type of organization providing education and training Tbilisi Polytechnic University, Faculty of Geology, Tbilisi Georgia
- Principal subjects/occupational skills covered Hydrogeology and Engineer-geology
- Title of qualification awarded Hydrogeolog, Engineer-Geolog
- Level in national classification High Education
- Dates (from – to) 1976-1979
- Name and type of organization providing education and training Institute of Hydrogeology and Engineer-geology, Georgian Academy of Sciences; Tbilisi, Georgia
- Principal subjects/occupational skills covered Hydrogeology
- Title of qualification awarded PhD of the Geology
- Level in national classification PhD
- Dates (from – to) 2003-2005
- Name and type of organization providing education and training Institute of Geophysics of Academy of Science of Georgia
- Principal subjects/occupational skills covered Hydrogeology
- Title of qualification awarded Doctor of Science in Geology
- Level in national classification Doctor

PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE
OTHER LANGUAGES

- Reading skills
- Writing skills
- Verbal skills
- **Reading skills**
- **Writing skills**
- **Verbal skills**

GEORGIAN

ENGLISH

Fluently
Fluently
Fluently

Russian

Excelent
Excelent
Excelent

SOCIAL SKILLS

AND COMPETENCES

Living and working with other people, in multicultural environments, in positions where communication is important and situations where teamwork is essential (for example culture and sports), etc.

Project (1998-2001) Protection of Thermal Ground Water Resources in Seismic Areas

Project (2000-2001) Toxic Pollution Detection in Ground Water: From Real Time Early Warning to Overall Assessment

Project (2002-2004) Strategy development for long term pollution control in regions of extreme environmental risk

Project (2007-2010) Assessment of radon-hazard potential, residential exposure, lung cancer and COPD in West Georgia

Project (2008-2011) Study of geodeformational processes in Georgian seismoactive region

Project (2009-2010) Applying Isotope Techniques for assessment of water resources in Georgia

Project (2010) Geodynamic impact on groundwater reservoirs in Georgia

Project (2010-2011) Implementation of Geothermal Heating Pilot Project in Khobi

Project (2010-2014) Use of Environmental Isotopes in Assessing Water Resources in Snow, Glacier, and Permafrost Dominated Areas under Changing Climatic Conditions.

Project (2011-2013) Investigation of Submarine Groundwater Discharge (SGD) for preventing pollution and eutrophication of the coastal sea

Project (2011-2013) Balkan, Black Sea, Caucasus, Caspian NETWORK for Complex Research of Earthquake's Forecasting Possibilities, Seismicity and Climate Change Correlations –BlackSeaHazNet

Project (2011-2013) The role of snow in hydrological cycle of the Borjomula – Gudjaretis-Tskali rivers basin, Georgia

Project (2011-2014) Natural analogue investigation for CCS in the Southern Caucasus

Project (2012-2013) Supporting Environmental Isotope Assessment to Improve the Sustainable Management of Groundwater Resources

Project (2013-2016) "Environmental Isotopes Testing in Alazani-Iori Catchments (East Georgia) For Provision of Sustainable Use of Groundwater Resources"

Project (2014-2015) "Using Isotope and Hydrochemical Techniques for the Assessment of Water Resources"

Project (2014-2017) Snow resources an the early prediction of hydrological drought in mountainous streams

Project (2014-2017) Spatial and Tem poral Variability of Geodynamical Field and Its Influence on the Deep Aquifers and Geomagnetic Field

Project (Permanent) International Atomic Energy Agency , IAEA-WMO PROGRAMME ON ISOTOPIC COMPOSITION OF PRECIPITATION: GLOBAL NETWORK OF ISOTOPES IN PRECIPITATION –"GNIP

ORGANISATIONAL SKILLS

AND COMPETENCES

Coordination and administration of people, projects and budgets; at work, in voluntary work (for example culture and sports) and at home, etc

Working in groups; I am participant large number of projects with large teams and staffs;

International conferences and workshops; Seminars.

TECHNICAL SKILLS

AND COMPETENCES

With computers, specific kinds of equipment, machinery, etc

Windows, MS Office, Adobe PhotoShop, professional Geophysical programs working with different geophysical equipment, LogXR, LogBox multiT .

ARTISTIC SKILLS

AND COMPETENCES

Music, writing, design, etc.

LOVE SPORT ART, HISTORY, TRAVELING AND NATURE

DRIVING LICENCE(S)

ADDITIONAL INFORMATION

List of papers in paast 5 years

2014

G.Melikadze, M.Kralik, R.Pavuza. "Hydrogeological and Speleometeorological Dynamics of the Prometheus and Sataplia Show-Caves, Imereti, Georgia. Geophysical Journal International 01/2014; Physics of Solid Earth, v. 17a (Issue (A)):76-101.

2014

G.Melikadze, G.Kobzev, T.Jimsheladze. "Some Methods of Analyze Geodynamic Imfuct on the Deep Aquifare". Journal of Georgian Geophysical Society 01/2014; Physics of Solid Earth, v.17a (Issue (A)):47-52.

2014

G. Melikadze, N. Zhukova, M. Todadze, S. Vepkhvadze, T. Vitvar. "Result of numerical modelling of groundwater resource in the Shiraki catchment". Journal of Georgian Geophysical Society 01/2014; Physics of Solid Earth, v. 17a (Issue (A)):102-108.

2014

George Melikadze, Natalia Zhukova, Mariam Todadze, Sopio Vepkhvadze, Nino Kapanadze, Alexandre Chankvetadze, Tamar Jimsheladze, Ramaz Chitanava; Preliminary result of stable isotopes monitoring in the Alazani-iori catchment; Journal of Georgian Geophysical Society, Issue (A), Physics of Solid Earth, v.17a, 2014, pp. 39-46

2014

George Melikadze, Natalia Zhukova, Mariam Todadze, Sopio Vepkhvadze, Nino Kapanadze, Alexandre Chankvetadze, Tamar Jimsheladze, Tomas Vitvar ; Evaluation of recharge origin of groundwater in the Alazani-iori basins, using hydrochemical and isotope approaches; Journal of Georgian Geophysical Society, Issue (A), Physics of Solid Earth, v.17a, 2014, pp. 53-64

2014

G. Melikadze, T. Jimsheladze, G. Kobzev, A. Benderev, E. Botev. "Linear methods of studying the water level variation related with seismicity". Geophysical Journal International (Impact Factor: 2.72). 01/2014; Physics of Solid Earth, v.17a (Issue (A)):65-75.

2014

D. Penna, M.Ahmad, S.J. Birks, L.Bouchaou, M. Brenčič, S. Butt, L.Holko, G Jeelani, D. E. Martínez, G. Melikadze, J.B. Shanley, S.A. Sokratov, T. Stadnyk, A. Sugimoto, P. Vreča. "A new method of snowmelt sampling for water stable isotopes". Hydrological Processes (Impact Factor: 2.5). 06/2014;28(22). DOI: 10.1002/hyp.10273

2014

T.Chelidze, I.Shengelia, N.Zhukova, T. Matcharashvili, G. Melikadze, G. Kobzev. "Coupling of Multiple Rayleigh Waves and Water Level Signals during 2011 Great Tohoku Earthquake Observed in Georgia, Caucasus". Proceedings of the National Academy of Sciences (Impact Factor: 9.81). 01/2014; 8.

2014

G. Melikadze, N. Jukova, M. Todadze, S. Vepkhvadze, N. Kpanadze, A.Chankvetadze, R.Chitanava. "Investigation Alazani-iori catchment using stable isotopes". Reports, presented on the Scientific Conference "80 years of the M. Nodia Institute of Geophysics, Tbilisi, 2014.

2014

G.Melikadze, G. Kobzev, T. Jimsheladze. "Выявление предвестников землетрясения с помощью Гидродинамического мониторинга на территории Грузии". Reports, presented on the Scientific Conference "80 years of the M. Nodia Institute of Geophysics, Tbilisi, 2014.

2013

S. Klumbach, O. Körting, H. Babayan, G. Melikadze, B. Müller, T. Neumann, H. Stosch, P. Tozalakyan. "CO2-induced Rock Alteration in Armenia and Georgia " - First Results of BS-ERA.NET Project CauCasCCS. 09/2013; DOI: 10.3997/2214-4609.20131632.

2013

N. Kapanadze, M. Bezek, J. Vaupotič, G. Melikadze. „Radon And Thoron Levels in Air at Selected Places in Georgia". Complex Research of Earthquake's Forecasting Possibilities, Seismicity and Climate Change

Correlations, BlackSeaHazNet Workshop, Sofia,Bulgaria; 12/2013.

2013

A.Gevorgyan, A.Khangaldyan, S.Cht.Mavrodiev, M.Adibekyan, G.Melikadze, A.Sborshchikovi, G. Kobzev, T. Jimsheladze. , Method of Standard Deviation for Analysis of Caucasus Borehole Water Level Data “Complex Research of Earthquake’s Forecasting Possibilities, Seismicity and Climate Change Correlations, BlackSeaHazNet Workshop, Sofia,Bulgaria; 12/2013.

2013

G.Melikadze, G. Kobzev, T. Jimsheladze, A. Sborshchikovi. “Water Level’s Variation in Boreholes of Georgia (2011-2013)”. Complex Research of Earthquake’s Forecasting Possibilities, Seismicity and Climate Change Correlations, BlackSeaHazNet Workshop, Sofia,Bulgaria; 12/2013.

2013

G. Melikadze, M. Todadze, G. Kobzev, T. Jimsheladze, A. Sborshchikovi, N. Kapanadze. “Evaluation of Water Level Observation Technology on the Territory of Georgia”. Complex Research of Earthquake’s Forecasting Possibilities, Seismicity and Climate Change Correlations, BlackSeaHazNet Workshop, Sofia,Bulgaria; 12/2013.

2013

A. Sborshchikovi, G. Kobzev, G. Melikadze, S. Cht. Mavrodiev. “Boreholes Water Level and Earthquake’s Prediction (2011-2013)”. Complex Research of Earthquake’s Forecasting Possibilities, Seismicity and Climate Change Correlations, BlackSeaHazNet Workshop, Sofia,Bulgaria; 12/2013.

2013

G.Melikadze, N.Kapanadze, M.Todadze, Z.Machaidze, A.Chankvetadze, Ch.Tsabaris, E.Androulakaki, F. Pappa, G. Eleftheriou, D. Patiris, M. Schubert, K. Knoeller, R. Stollberg, U. Mallast. “Using Environment Tracers for Investigation of Bleack Sea Polushion“. Complex Research of Earthquake’s Forecasting Possibilities, Seismicity and Climate Change Correlations, BlackSeaHazNet Workshop, Sofia,Bulgaria; 12/2013

2013

G. Melikadze, M. Todadze, N. Kapanadze, O. Körting, B. Müller, J. Vaupotič, P. Andreeva, Hr. Kiselinov. Study Interaction between Seismicity and Gas Emission on the Territory of Georgia. Complex Research of Earthquake’s Forecasting Possibilities, Seismicity and Climate Change Correlations, BlackSeaHazNet Workshop, Sofia,Bulgaria; 12/2013

2013

Cht.Mavrodiev, G.Kobzev, A.Sborshchikov, G.Melikadze, “Boreholes Water Level and Earthquake’s daily monitoring”, Journal of Georgian Geophysical Society, Issue A. Physics of Solid Earth, vol. 16A 2013.

2013

T. Jimsheladze, G. Melikadze, G. Kobzev “Construction and analysis of the stress state of environment during the preparation of the Racha earthquake 2009” Proceedings of Mikheil Nodia Institute of Geophysics, Tbilisi, Georgia, 2013.

2013

George Melikadze, Olga Körting Nino Kapanadze, Birgit Müller, Mariam Todadze, Tamar Jimsheladze, Alexander Chankvetadze; Investigation of carbon dioxide fluxes and possibility its storage in Georgia; Journal of Georgian Geophysical Society, Issue A. Physics of Solid Earth, vol. 16A

2013

G. Melikadze, G. Kobzev, N. Kapanadze, M. Todadze, “Creation Numerical Model of The Tsaishi Geothermal Rezervoir for Organization of Geothermal Circulation System”, Journal of Georgian Geophysical Society, Issue A. Physics of Solid Earth, vol. 16A 2013.

2013

T. Jimsheladze, G. Melikadze, A. Chankvetadze, R. Gagua, T. Matiashvili, “The Geomagnetic Variations in Dusheti Observatory January- June 2013”, Journal of Georgian Geophysical Society, Issue A. Physics of Solid Earth, vol. 16A 2013.

2013

George Melikadze, Michael Schubert, Christos Tsabaris, Nino Kapanadze, Mariam Todadze, Zurab Machaidze, Alexander Chankvetadze; USING ENVIRONMENT TRACERS FOR INVESTIGATION OF SUBMARIN GROUNDWATER DISCHARGE; Journal of Georgian Geophysical Society, Issue A. Physics

2013

G. Melikadze, N. Kapanadze, M. Todadze, "Assessment the role of snow in hydrological cycle of the Borjomula-Gudjareti-Tskali rivers basin", Journal of Georgian Geophysical Society, Issue A. Physics of Solid Earth, vol. 16A 2013.

2012

G. Melikadze, G. Kobzev, N. Kapanadze, Kh. Bedineishvili, Methodology Creation Numerical Model of Alluvial Deposit Aquifer for Implement Heat Pump System of Kutaisi International Airport, Journal of the Georgian Geophysical Society, Issue A. Physics of Solid Earth, vol. 15A, 155-166, 2012.

2012

J.Vaupotič, M. Bezek, N. Kapanadze, G. Melikadze, T. Makharadze, Radon and Thoron Measurements in West Georgia, Journal of the Georgian Geophysical Society, Issue A. Physics of Solid Earth, vol. 15A, 128-137, 2012.

2012

T. Jimsheladze, G. Melikadze, A. Chankvetadze, R. Gagua, T. Matiashvili. The Geomagnetic Variation in Dusheti Observatory Related With Earthquake Activity in East Georgia, Journal of the Georgian Geophysical Society, Issue A. Physics of Solid Earth, vol. 15A, p.118-128, 2012

2011

Amiranashvili A. Bliadze T. Chankvetadze A. Chikhladze V. Melikadze G. Kirkitadze D. Nikiforov G. Nodia A.; Comparative Characteristics of light ions content in the urban and ecologically clean locality in Georgia. ; XIV International conference on Atmospheric electricity, august 08-12, 2011, Rio De Janeiro, Brazil.

2011

G. I. Melikadze, T. Chelidze, N. Zhukova, P. Malik, T. Vitvar,. Using Numerical Modelling for Assessment of Pollution Probability of Drinking Water Resources in Borjomi Region (Southern Georgia), Climate Change and its Effects on Water Resources, Issues of National and Global Security (Edit Baba, A., Tayfur, G., Gunduz, O., Howard, K.W.F., Fridel, M.J., Chambel, A.), 2011, NATO Science Series. Springer. ISBN:978-94-007-1145-7. Chapter 29, pp.267-275.

2011

N. Kapanadze, G. I. Melikadze and Genadi Kobzev. Modeling of the Tbilisi (Georgia) Geothermal Deposit Under Climate Change Conditions, Climate Change and its Effects on Water Resources, Issues of National and Global Security (Edit Baba, A., Tayfur, G., Gunduz, O., Howard, K.W.F., Fridel, M.J., Chambel, A.), 2011, NATO Science Series. Springer. ISBN: 978-94-007-1145-7. Chapter 30, pp.277-284.

2011

A. Amiranashvili, T. Bliadze, V. Chikhladze, Z. Machaidze, G. Melikadze, N. Saakashvili, E. Khatiashvili, I. Tarkhan-Mouravi, Sh. Sikharulidze, T. Nakaidze, M. Tavartkiladze - New Data About The Aeroionization Characteristics of the Territory of National Botanical Garden of Georgia as the Factor of the Expansion of Its Sanitation Properties for the Visitors, Proc., Int. Conf. "Applied Geophysics and Geoecology" Dedicated to the Prof. L. Chanturishvili 90th Anniversary, September 14-15, 2011, Tbilisi, Georgia, (in press).

2011

A, Amiranashvil, T. Matcharashvili, G. Melikadze, T. Chelidze. - On the climate change in Georgia in the past, at present and in the future: what should be done for filling the gaps, Proc. of VII-th Ann. Int. Conf. of REC Caucasus "Climate Change Adaptation – Challenge and Opportunity for the Caucasus", November 10-11, 2011, Tbilisi, 2011, pp. 29-30

2011

N. Kapanadze, G. Melikadze, Z. Machaidze, S. Kimotidze, K Bedianishvili, Evolution of Methodology Multi-parametrical Observation on the Territory of Georgia, Workshop-seminars materials "BlackSeaHazNet Series, Volume 2, 54-65, 2011, Tbilisi, Georgia

2011

G. Kobzev, G. Melikadze, T. Jimsheladze., New method of hydrodynamical data analyse, Workshop-seminar "Complex research of earthquake's forecasting possibilities, seismicity and climate change correlations" materials, "BlackSeaHazNet Series, Volume 25-72, 2011, Tbilisi, Georgia

2011

G. Melikadze, N. Kapanadze, G. Kobzev, T Jimsheladze, Geodynamical Impact on the Hydrodynamic Field, Workshop-seminar "Complex research of earthquake's forecasting possibilities, seismicity and climate change correlations" materials, "BlackSeaHazNet Series, Volume 2, 164- 169, 2011, Tbilisi, Georgia, <http://dSPACE.nplg.gov.ge/handle/1234/9101>

2011

T. Jimsheladze, G. Melikadze, G. Kikuashvili, S. Mavrodiev, L. Pekevski, M. Chkhitunidze, Study of Geomagnetic Variations in Georgia and establishment the Anomaly Nature of Earthquake Precursors, Workshop-seminar materials "BlackSeaHazNet Series, Volume 2, 205-214, 2011, Tbilisi, Georgia.

2010

A. Amiranashvili, T. Bliadze, G. Melikadze, I. Tarkhan-Mouravi, V. Chikhladze. "Content of light aeroions as the factor of the air purity of some health resorts of Georgia". Modern problems of using of health resources, Collection of scientific works of international conference Sairme-June 10-13, 2010, Collection of scientific works is refereed in abstract E-journal of "Tekhinform".

2010

N. Saakashvili, M. Tabidze, I. Tarkhan-Mouravi, A. Amiranashvili, G. Melikadze, V. Chikhladze. "To a question about the certification of the health resorts and tourist resources of Georgia". Modern problems of using of health resources, Collection of scientific works of international conference Sairme-June 10-13, 2010, Collection of scientific works is refereed in abstract E-journal of "Tekhinform".

2010

N. Saakashvili, M. Tabidze, I. Tarkhan-Mouravi, A. Amiranashvili, G. Melikadze, V. Chikhladze. "To a question about the organization of ionotherapy at the health resorts of Georgia". Modern problems of using of health resources, Collection of scientific works of international conference Sairme-June 10-13, 2010, Collection of scientific works is refereed in abstract E-journal of "Tekhinform".

2010

K. Kartvelishvili, G. Melikadze, G. Kobzev "Influence of atmosphere pressure and tidal variation of gravity of the hydrosphere". Mokheil Nodia Institute of Geophysics, Proceedings of the Institute Geophysics, Volume 65, page 1 69 -173, 2010.

2010

T. Chelidze, T. Matcharashvili, and G. Melikadze, Earthquakes' Signatures in Dynamics of Water Level Variations in Boreholes, In: Synchronization and Triggering: from Fracture to Earthquake Processes, Eds.V.de Rubeis, Z. Czechowski, R. Teisseyre, Geoplanet: Earth and Planetary Sciences, 2010, Volume 1, Part 3, 287-304, DOI: 10.1007/978-3-642-12300-9_20, Springer.

2010

N. Kapanadze, G. Melikadze, Estimation of Zugdidi and Tbilisi Thermal Water Deposits, Workshop materials "Exploration and exploitation of groundwater and thermal water systems in Georgia, 5-13, 2010, Tbilisi, GEORGIA.

2010

G. Melikadze, Assessment of the pollution Probability In Borjomi-Bakuriani Area By Application of Hydrochemical and Stable Isotope, Workshop materials "Exploration and exploitation of groundwater and thermal water systems in Georgia, 13 -24, 2010, Tbilisi, GEORGIA.

2010

N. Dovgal, G.I. Melikadze, Methodology of Creation of Multi-Parametrical Network, Workshop materials "Exploration and exploitation of groundwater and thermal water systems in Georgia, 50-60, 2010, Tbilisi, Georgia. <http://dSPACE.nplg.gov.ge/handle/1234/9081>

2010

G. Kobzev, G.I. Melikadze, Methods of hydrogeodynamical analysis for revealing earthquakes precursors, Workshop materials "Exploration and exploitation of groundwater and thermal water systems in Georgia, 60-69, 2010, Tbilisi, Georgia.

2010

T. Jimsheladze, G. Kobzev, G. Melikadze, N. Zhukova, Geodynamical Impact on the Water Level Variations in the Boreholes, Workshop materials "Exploration and exploitation of groundwater and thermal water systems in Georgia, 69-83, 2010, Tbilisi, Georgia

2010

G. Kobzev, N. Kapanadze, G. Melikadze, N. Zhukova, Creation of Numerical Model of Tbilisi Geothermal Deposit. Workshop materials "Exploration and exploitation of groundwater and thermal water systems in Georgia, 110-124, 2010, Tbilisi, Georgia.

2010

G. Melikadze, N. Dovgal, N. Zhukova, Using Numerical Modelling For Borjomi-Bakuriani Drinking Water Reservoir. Workshop materials "Exploration and exploitation of groundwater and thermal water systems in Georgia, 124 -132, 2010, Tbilisi, Georgia.

2010

G. Buntebarth, G. Melikadze. Applying temperature and Pressure Measurements for Estimating the Size of a Water Reservoir. Research workshop on Exploration and Exploitation of Groundwater and Thermal Water Systems in Georgia. Tbilisi, Georgia; 01/2010.

2010

G. Melikadze, L. Tsertsvadze, N. Tsertsvadze, O. Vardigoreli, T. Barabadze. Country Update from Georgia. Proceedings World Geothermal Congress 05/2010;