Zaza Gulashvili

Personal information

ID Number: 01022002587

Full name: Zaza Gulashvili

Gender: Male

Date of birth: 01.01.1980

Citizenship: საქართველო (Georgia)

Contact Details

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Languages

Language	Writing	Reading	Speaking
Russian	C1	C2	C1
English	B2	B2	B2
ქართული (Georgian)	C2	C2	C2

Education

Academic degree

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

Year obtained: 31.07.2024

Education

Academic Degree	Name of the Institution	Country	Major discipline	Start year	End year
Doctoral/PhD, Ed.D or other equivalent	Ivane Javakhishvili Tbilisi State University	საქართველო (Georgia)	Geography	2013	2024
Master/MS, MA, MR, MBA, m.Ed or other equivalent	Ivane Javakhishvili Tbilisi State University	საქართველო (Georgia)	Hydrology-Hydroecology	2001	2003
Bachelor/BS, BA, BE or other equivalent	Ivane Javakhishvili Tbilisi State University	საქართველო (Georgia)	Hydrology-Hydroecology	1997	2001

Trainings / Seminars / Training courses

Training / Seminar / The theme of the course	Organization name	Start year	End year
ჰიდროლოგიური პროცესები როგორც ბუნებრივი ფაქტორი და მათი გავლენა ეკოსისტემებზე	RWTH Aachen University	2025	2026
GIS based Solutions for Environmental Peacebuilding in the Southern Caucasus	Justus-Liebig University of Giessen, Germany	2022	2022
Strategic Planning of River Basins and Deltas	IHE-Delft, Delft, The Netherlands	2022	2022
Methodologies and Decision Support Systems for Integrated Planning and Management of Water Resources Systems	Research Institute of Water and Environmental Engineering of Polytechnic University of Valencia (IIAMA)	2018	2019
Enhancing Learning in ENRPI Countries through Clean technologies and Research Related Activities	Research Institute of Water and Environmental Engineering, Polytechnic University of Valencia, Spain	2016	2016
Disaster risk prevention and Integrated Water Resources Management (IWRM)	Delft University of Technology, Delft, The Netherlands	2016	2016

Training / Seminar / The theme of the course	Organization name	Start year	End year
Study of Hydraulic Modelling Against Flood	National Environmental Agency, Ministry of Environment Protection of Georgia	2015	2015
Training on Curricula Development and Training of Trainers for Masters Course in Integrated Water Resources Management	UNESCO-IHE, Water Education Institute, Delft, The Netherlands	2014	2014

Projects

Ongoing projects

Project title	Position	Project head	Start Date	Donor
Role of Tourism in Socio-Economic and Ecological Sustainability of Bordering Mountainious Region's: Geographical Survey	Coordinator	Elene Salukvadze	11.06.2025	Shota Rustaveli National Science Foundation of Georgia

Completed projects

Project title	Position	Project head	Start Date	End Date	Donor
Compilation of databases of climate elements in the occupied territories of the Tskhinvali region and assessment of risks caused by climate change using modern methods	Coordinator	Nana Bolashvili	01.08.2024	31.07.2025	Shota Rustaveli National Foundation
Modelling and mapping of rainfall erosivity in Georgia	Coordinator / Young Scientist	Mariam Tsitsagi	15.03.2022	10.03.2025	Shota Rustaveli National Science Foundation of Georgia
Positives and Negatives of Water Reservoirs	Coordinator / Young Scientist	Lia Matchavariani	23.07.2021	22.01.2022	Shota Rustaveli National Science Foundation of Georgia
Preparation of the Atlas of Zoonotic Infections in South Caucasus	Manager	Nana Bolashvili	02.03.2020	01.10.2024	Defence Threat Reduction Agency, USA
Integrated Water Resource Management of River Rioni Basin	Principal Investigator	Zaza Gulashvili	25.11.2019	25.07.2020	International Education Center Alumni Association
Quantitative Assessment and Management of Rioni River Water Resources (within Colchis Lowland)	Principal Investigator	Zaza Gulashvili	26.09.2019	26.03.2020	Shota Rustaveli Georgian National Science Foundation
Famous and Unknown Cultural Routes of Western Georgia	Expert	Tata Inashvili	01.05.2019	20.09.2019	Ministry of Education, Science, Culture and Sport of Georgia

Project title	Position	Project head	Start Date	End Date	Donor
Methods of Assessing the Negative Impact of the Water Reservoirs on the Environment and Population Safety	Coordinator / Young Scientist	Lia Matchavariani	21.02.2019	20.02.2022	Shota Rustaveli National Science Foundation of Georgia
Capacity Building Partnership Based on Through the Projection	Basic staff	Andreas Dittmann	03.09.2017	29.08.2019	Federal Ministry of Education and Science of Germany (BMBF)
Disaster Risk Prevention and Integrated Water Resources Management	Principal Investigator	Zaza Gulashvili	18.07.2016	12.10.2016	Shota Rustaveli National Foundation
Landscape-Ecological Assessment of Samtskhe-Javakheti Through GIS Analysis for Territorial Planning	GIS Specialist	Dali Nikolaishvili	02.11.2015	31.12.2015	Shota Rustaveli National Foundation
Modern Methods of Realization of the Coast Protection and Hydro-power Joint Problems	Hydrologist	Lia Matchavariani	10.09.2015	10.05.2017	Shota Rustaveli National Foundation
International Conference ICAE-2015–"Applied Ecology: Problems, Innovations"	Organizational Executor	Lia Matchavariani	15.05.2015	17.05.2015	Shota Rustaveli National Foundation
Methodology of Rivers Coast Line Vulnerability Assessment Taking into consideration the Risk of Freshets	GIS Specialist	Davit Kereselidze	02.09.2013	14.07.2016	Shota Rustaveli National Foundation
International Conference "Kolkhety Lowland Water Ecosystems - Protection and Efficient Use"	Coordinator	Davit Kereselidze	22.07.2013	24.07.2013	Shota Rustaveli National Foundation

Scientific Fields (2018-2020)

Main Field

Field: 1. Natural sciences

Sub-Field: 1.5 Earth and related environmental sciences

Subject area: 1.5.11 Oceanography, Hydrology, Water resources

Additional Field (1)

Field: 2. Engineering and technology

Sub-Field: 2.7 Environmental engineering

Additional Field (2)

Field: 7. Georgian studies

Sub-Field: 7.5 Social Sciences

Subject area: 7.5.7 Social and economic geography

Scientific Fields (2021-2024)

Main Field

Field: 1. Physical Sciences and Engineering

Sub-Field: 1.10 Earth System Science

Subject area: 1.10.17 Hydrology, hydrogeology, engineering and environmental geology, water and soil pollution

Additional Field (1)

Field: 1. Physical Sciences and Engineering

Sub-Field: 1.10 Earth System Science

Subject area: 1.10.3 Climatology and climate change

Additional Field (2)

Field: 1. Physical Sciences and Engineering

Sub-Field: 1.10 Earth System Science

Subject area: 1.10.13 Physical geography, geomorphology

Employment History

Current place(s) of employment

Workplace	Name of the work department	Position	Main responsibilities	Start Date
Vakhushti Bagrationi Institute of Geography, TSU	Department of Physical Geography	Deputy Director, Senior Researcher	Hydrological researches in department's research themes. Organizational topics of institute in direction of research and development.	15.01.2025

Work experience

Company/Institution	Name of the department	Position	Main responsibilities	Start Date	End Date
Vakhushti Bagrationi Institute of Geography, TSU	Cartography-Geoinformatics Laboratory	Researcher	Evaluating water resources of Kakheti region, also studying drinking/irrigate water demand/supply problems and creating hydrographic map	11.11.2019	11.11.2024
Vakhushti Bagrationi Institute of Geography	Department of Physical Geography	Scientist	Assessment of the potential of water resources in the Rioni River basin, as well as the study of the hydrological regimes of the Colchis wetlands located in the lower reaches of the basin. Modeling of river basins based on the data obtained as a result of the study.	15.01.2018	11.11.2019
TSU Vakhushti Bagrationi Institute of Geography	Department of Physical Geography	Researcher	1. To study water demand and supply system; 2. Analyzing hydrographic network of region; 3. Quantitative assessment of water resources for long term period taking into account climate change; 4. Modelling of river basins using computer software, creating simulation scenarios and developing recommendation scheme for management of water suppliers, stakeholders and water objects.	02.03.2015	29.12.2017
TSU National Scientific Library	IT Group	IT specialist	Creating network, installing operating systems and properly working	16.09.2012	27.02.2015
LTD "Color"	Department of Design	Prepress Designer	Receiving files, technical revision, processing and preparing for print; pre-press design.	20.04.2006	25.04.2012
Institute of Hydrometeorology	Department of Hydrology	Young Researcher	Participating in conducting of research themes of department, computing data of hydrological regimes, assisting of project supervisor.	03.09.2001	31.08.2006

Scientific Productivity

Article / Monograph / Manual

Type	Authors	Publication title	Source title	Year
Article	S. Gorgijanidze, G. Jincharadze, M. Pipia, M. Silagadze, Z. Gulashvili, N. Beglarashvili, N. Kobakhidze	Natural events related to hydrological processes and ways to avoid them in the tourist area of Adjara	Georgian Geographical Journal	2026
Article	N. Kvirkvelia, M. Tutberidze, G. Khometiki, E. Salukvadze, S. Dzhvarsheishvili, Z. Gulashvili	The Impact of Tourism on the Socio-Economic Transformation of High Mountain Border Regions (Cases of Khevi, Khevsureti, and Tusheti) and the Challenges of Sustainable Development	Bulletin of Georgian National Academy of Sciences	2026
Article	Pipia G., Gorgijanidze S., Grigolia G., Gulashvili Z., Chitadze T.	Intraannual Distribution of the Iori River Runoff	Scientific Reviewed Proceedings of the Institute of Hydrometeorology of the Georgian Technical University	2025
Article	Mariam Tsitsagi; Zaza Gulashvili; Nino Kharebava	NDVI-BASED SPATIOTEMPORAL ANALYSIS OF THE GREEN SPACE IN TBILISI, GEORGIA	Proceedings of 25th International Multidisciplinary Scientific GeoConference SGEM 2025, Volume 25, Issue 3.1	2025
Monograph	M. Tsitsagi, N. Bolashvili, Z. Gulashvili	Modeling and Mapping the Erosion Potential of Atmospheric Precipitation in Georgia		2025
Monograph	N. Bolashvili, Z. Gulashvili, N. Suknidze, M. Tatishvili, T. Chichinadze	Creation of Databases of Climate Elements in the Occupied Territories of the Tskhinvali Region and Assessment of Risks Caused by Climate Change Using Modern Methods		2025
Article	M. Tsitsagi, A. Palavandishvili, Z. Gulashvili	DROUGHT INDICES AND VIS-BASED CANOPY STATUS OF VINEYARDS	Proceedings of 24th International Multidisciplinary Scientific GeoConference SGEM 2024	2024
Article	S. Gorgijanidze, T. Gorgodze, G. Jincharadze, N. Kobakhidze, M. Silagadze, Z. Gulashvili	CRUCIAL MOMENT OF TOPOGRAPHIC MAP FOR EFFECTIVE MANAGEMENT OF NATURAL DISASTERS	International Scientific Conference “Complex Geophysical Monitoring in Georgia: History, Modern Problems, Promoting Sustainable Development of the Country”, Proceedings	2024
Article	S. Gorgijanidze, T. Gorgodze, G. Jincharadze, T. Chitadze, N. Kobakhidze, Z. Gulashvili	Management of floods caused by blocking of river valleys by cartographic method	Proceedings, 9th International Conference on Cartography and GIS	2024
Article	T. Chichinadze, N. Bolashvili, Z. Gulashvili, N. Suknidze, I. Burjanadze, L. Malania	Identifying geographical drivers of tularemia transmission risk in Georgia	Proceedings of Euro-Mediterranean Conference for Environmental Integration (EMCEI-2024)	2024
Article	T. Chichinadze, Z. Gulashvili, N. Suknidze, N. Bolashvili	Mapping of Zoonotic Diseases in South Caucasus	Georgian Geographical Journal	2024
Article	T. Chichinadze; Z. Gulashvili; N. Bolashvili; L. Malania; N. Suknidze	Mapping and Analysis of Anthrax Cases in Humans and Animals	Georgian Geographical Journal	2023
Article	Tatishvili, M. Palavandishvili, A. Tsitsagi, M. Gulashvili, Z. Suknidze, N.	Drought evaluation based on SPEI, SPI indices for Georgian territory	International Conference of Young Scientists “Modern Problems of Earth Sciences”. Proceedings	2022
Article	M. Tsitsagi, Z. Gulashvili, N. Bolashvili, M. Tatishvili, N. Suknidze	RELATIONSHIP BETWEEN NORMALISED DIFFERENCE VEGETATION INDEX, PRECIPITATION AND DROUGHT INDICES (CASE OF KAKHETI, GEORGIA)	Proceedings of 22nd SGEM International Multidisciplinary Scientific GeoConference 2022	2022
Article	L. Matchavariani, G. Metreveli, Z. Gulashvili	POSITIVE AND NEGATIVE ASPECTS OF WATER RESERVOIRS	Proceedings of 22nd International Multidisciplinary Scientific GeoConference SGEM 2022	2022
Article	Matchavariani, L., Metreveli, G., Gulashvili, Z.	Assessment Scheme of Water-Reservoirs Impact on Groundwater	International Journal of GEOMATE	2022

Type	Authors	Publication title	Source title	Year
Article	M. Tsitsagi, M. Tatishvili, Z. Gulashvili	CORRELATION OF DROUGHT INDICES FOR DIFFERENT CLIMATE CONDITION IN GEORGIA	Proceedings of II INTERNATIONAL SCIENTIFIC CONFERENCE LANDSCAPE DIMENSIONS OF SUSTAINABLE DEVELOPMENT SCIENCE – CARTO/GIS – PLANNING – GOVERNANCE	2022
Article	M. Tsitsagi, Z. Gulashvili, N. Bolashvili, M. Tatishvili, N. Suknidze	RELATIONSHIP BETWEEN NORMALISED DIFFERENCE VEGETATION INDEX, PRECIPITATION AND DROUGHT INDICES (CASE OF KAKHETI, GEORGIA)	Proceedings of 22nd International Multidisciplinary Scientific GeoConference SGEM 2022	2022
Monograph	G. Metreveli, L. Matchavariani, Z. Gulashvili	Positives and Negatives of Water Reservoirs		2022
Article	Matchavariani, L., Metreveli, G., Gulashvili, Z.	Role of Water Reservoirs in the Seashore Dynamics	Proceedings of the 21th International Multidisciplinary Scientific GeoConference SGEM2021	2021
Article	Matchavariani, L., Metreveli, G., Gulashvili, Z.	Investigation of Water-Reservoirs Impact Mechanism on Groundwater and Indicator Scheme of Assessment	Proceedings of the 7th International Conference on Structure, Engineering and Environment	2021
Article	A. Amiranashvili, N. Bolashvili, Z. Gulashvili, N. Jamrishvili, N. Suknidze, K. Tavidashvili	Modeling the Distribution of Hailstones by Mean Max Sizes on the Territory of Kakheti (Georgia) using Data of the Freezing Level in the Atmosphere and Radar Measurements	Journal of the Georgian Geophysical Society	2021
Monograph	Z. Gulashvili, M. Tsitsagi, T. Chichinadze	Integrated Management of River Rioni Water Resources		2020
Article	Matchavariani L., Metreveli G., Gulashvili Z.	Estimation of Climatic Background and its Regional Parameters	Proceedings of the 20th International Multidisciplinary Scientific GeoConference SGEM2020, "Water Resources, Forest, Marine & Ocean Ecosystems – Section-19: Air Pollution and Climate Change", Sofia, Bulgaria, vol. 20, Issue 4.1, 423-432	2020
Article	Z. Gulashvili	Irrigation and Water Supply Recommendation Scheme in Rioni River Basin	Proceedings of the 20th International Multidisciplinary Scientific GeoConference SGEM2020, "Water Resources, Forest, Marine & Ocean Ecosystems – Section-19: Air Pollution and Climate Change", Sofia, Bulgaria, vol. 20, Issue 4.1, 423-432	2020
Article	T. Chichinadze, Z. Gulashvili, T. Tskhakaia	Creation of Geo-Information System of Administrative-Territorial Division of Georgia, Mapping and Analisys by 1926 Year Census Date	Science and Technologies	2019
Article	G. Metreveli, L. Matchavariani, Z. Gulashvili	METHOD FOR HYDROLOGICAL PARAMETERS DEFINITION OF SILTING PRISM AND EQUILIBRIUM BED IN WATER RESERVOIRS	Proceedings of the 19th International Multidisciplinary Scientific GeoConference SGEM2019. "Water Resources, Forest, Marine & Ocean Ecosystems – Section: Hydrology and Water Resources", vol. 19, Issue 3.1, 363-368	2019
Article	L. Matchavariani, G. Metreveli, Z. Gulashvili	Integrate Management of Water Reservoirs Problems	ABSTRACTS OF THE FIRST EURASIAN CONFERENCE "RISK – 2019"	2019
Article	L. Matchavariani, G. Metreveli, L. Lagidze, D. Svanadze, Z. Gulashvili	Solution of Reservoirs' Siltation Problem for Hydropower Development and Coastal Protection	International Journal of GEOMATE, 13(39), 206-212	2017
Article	L. Matchavariani, G. Metreveli, L. Lagidze, Z. Gulashvili, D. Svanadze, N. Paichadze	Positive Aspects of Studying the Sedimentations in Reservoirs Through the Natural Experiments	Journal of Environmental Biology, vol. 38(5), 1155-1159	2017
Article	L. Matchavariani, G. Metreveli, D. Svanadze, Z. Gulashvili	Spatial-Temporal Distribution, Genesis and Transportation of Bottom Sediments	Proceedings of the 17th International Scientific Geo-Conference SGEM2017, vol. 17(31), 617-623	2017

Type	Authors	Publication title	Source title	Year
Article	L. Lagidze, L. Matchavariani, G. Metreveli, N. Tsivtsivaadze, N. Paichadze, Z. Gulashvili, D. Svanadze	Evaluation of Climate Parameters of Black Sea Coastline in the Background of Climate Change	Journal of Environmental Biology, vol. 38(5), 1069-1077	2017
Article	L. Matchavariani, G. Metreveli, M. Alaverdashvili, L. Lagidze, D. Svanadze, Z. Gulashvili, G. Bregvadze, N. Paichadze	Results of Field Eexperiments of Reservoirs' Siltation for Harmonious Realization of Hydropower and Coastline Problems	Proceedings of Second International Conference on Science, Engineering & Environment (SEE-Osaka) Japan, Nov.21-23	2016
Article	D.Kereselidze, V.Trapaidze, Z.Gulashvili	Water Quality Variability of the river Rioni	Proceedings of 4th International Conference on Climate Change Adaptation 2015 (CCA2015)	2015
Article	L. Matchavariani, G. Metreveli, N. Tivtivadze, Z. Gulashvili	Solution of Shore Protection and Hydro-energetic Problems for Georgian Black Sea Coastline	Proceedings of 4th International Conference on Climate Change Adaptation 2015 (CCA2015)	2015
Article	D. Kereselidze, L. Matchavariani, V. Trapaidze, L. Lagidze, D. Svanadze, G. Bregvadze, Z. Gulashvili	Quantitative Assessment of Permissible Loads on Georgia's Soil	American Journal of Environmental Protection Volume 4, Issue 3-1, May 2015, Pages: 29-33	2015
Article	N. Tsintsivadze, E. Khatiashvili, Z. Askurava, L. Matchavariani, L. Lagidze, N. Motsonelidze, G. Ivanov, N. Paichadze, Z. Gulashvili	Measures of Drinking Water Supply Reservoirs Ecological Problems	Proceedings of International Conference: Applied Ecology: Problems, Innovations	2015
Article	N. Lomidze, M. Salukvadze, Z. Gulashvili, N. Suknidze	Snow Cover Dynamics in Georgia on the background of Current Climate Change	Proceedings of 4th International Conference on Climate Change Adaptation 2015 (CCA2015)	2015
Article	Kereselidze D., Trapaidze V., Gulashvili Z., Jikia Z.	The History of the Study of Kolkhetian Wetlands and Prospects for Future Development	Workbook of International Conference "Kolkhety Lowland Water Ecosystems – Protection and Efficient use"	2013
Article	Dvalashvili G., Gulashvili Z., Aleksandria E., Kvavadze S.	Evaluation of Natural Factors of Kolkhety Lowland's Wetlands Poti-Kobuleti Microregion	International Conference "Modern Problems of Geography", Collected Papers, N5(84)	2013
Article	Z. Gulashvili	Observation Methods on Water Ecosystems	Bulletin of the Georgian Academy of Sciences, vol. 171, #1, pp. 82-84	2005

Participation in scientific events

Scientific event name	Title of the presentation	Event venue	Year
4th International Conference on Water Management and Surroundings - Modern Trends in Blue and Green Infrastruqture Management	Georgia's Water Resources for the Country's Sustainable Economic Development	Faculty of Geographical Sciences of Kazimierz Wielki University, Bigdoszcz, Poland	2025
7th International Conference on Structures, Engineering & Environment - SEE-Pattaya 2021	Investigation of Water-Reservoirs Impact Mechanism on Groundwater and Indicator Scheme of Assessment	Thailand	2021
21nd International Multidisciplinary Scientific GeoConference	Role of Water Reservoirs in the Seashore Dynamics	Albena, Bulgaria	2021
TSU 8th Faculty Conference in Exact and Natural Sciences	European Policy of Water Resources Management and Georgia - Problems, Analisys	Tbilisi, Georgia	2020
TSU Faculty Conference in Exact and Natural Sciences	Irrigation and Water Supply Scheme for Rioni River Basin	Tbilisi, Georgia	2020
TSU 8th Faculty Conference in Exact and Natural Sciences	Assessment of Water Reservoir Impact on Local Climate Parameters	Tbilisi, Georgia	2020
19th Conference on Mountain Meteorology	Main Parameters of the Global Climate Change Background in the Eastern Part of the Black Sea Region	Online, USA	2020
20th International Multidisciplinary Scientific GeoConference SGEM-2020	Estimation of regional parameters of the current climate change background	Albena, Bulgaria	2020

Scientific event name	Title of the presentation	Event venue	Year
6th International Conference on Knowledge & Innovation in Engineering, Science & Technology	Rioni River Water Management System – Irrigation and Water Supply Problems	Budapest, Hungary	2020
7th Annual Conference in Exact and Natural Sciences	Assessing of the Water Reservoirs Impact on the Environment and Population Safety	Tbilisi, Georgia	2019
Eurasian RISK-2019	Integrated Management of Water Reservoirs Problems	Baku, Azerbaijan	2019
International Conference on Climate Change	Method of Evaluate the Impact of the Water Reservoir on the Climate	Dubai, UAE	2019
International Workshop "Evaluating the National Atlas of Georgia"	Evaluation and Marketing Strategies of National Atlas of Georgia	Justus Liebig University of Giessen, Giessen, Germany	2018
Water Resources Management Workshop (WRMW2017)	Definition of Ecologically Hot Spots on Rioni River, Georgia	Delft, The Netherlands	2017
17th Multidisciplinary Scientific Conference (SGEM2017)	Spatial-Temporal Distribution, Genesis&Transportation of Bottom Sediments	Albena, Bulgaria	2017
Sustainable Development of Landscape Dimensions: Science, Planning, Management	Genesis and Spatial-Temporal Distribution of Bottom Sediments in Mountain Reservoirs	Tbilisi, Georgia	2017
5th International EcoSummit Ecological Sustainability: Engineering Change (EcoSummit-2016)	Application of Natural Expe¬riments in Oder to Study of Sedimentation Prism Forma¬tion in Mountain Reservoirs	Montpelier, France	2016
2nd International Conference on Science, Engineering & Environment (SEE-Osaka-2016)	Results of Field Experiments of Reservoir's Siltation for Harmonious Realization of Hydropower and Coastline Problems	Osaka, Japan	2016
Applied Ecology: Problems, Innovations	Measures of Drinking Water Supply Reservoirs Ecological Problems Solution	Batumi	2015
4th International Conference on Climate Change Adaptation	Quality Variability if the River Rioni	Colombo, Sri-Lanka	2015
Kolkhety Lowland Water Ecosystems - Protection and Efficient Use	The History of the Study of Kolkhetian Wetlands and Prospects for Future Development	Poti, Georgia	2013
Modern Problems of Geography	Evaluation of Natural Factors of Kolkhety Lowland's Wetlands in Poti-Kobuleti Microregion	Tbilisi, Georgia	2013

Productivity index

#	Citation index	h-index
Google scholar	73.00	5.00
Scopus	12.00	3.00
Web of science	7.00	2.00