

Lizi (Lela) Gadrani
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Climate Change Institute, University of Maine, Orono, ME

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Email: lela.gadrani@maine.edu

EDUCATION:

PhD Candidate Earth and Climate Science, Climate Change Institute

University of Maine, Orono, ME, USA

January 2020 - Present

Master of Science, Geomorphology-Geo-ecology and Cartography Geoinformatics

Ivane Javakhishvili Tbilisi State University, Georgia

September 2007-2009

GPA: 4.00/4.00

Bachelor of Science, Geomorphology-Geo-ecology and Cartography-Geoinformatics

Ivane Javakhishvili Tbilisi State University, Georgia

September 2002-2006

GPA: 4.00/4.00

RESEARCH EXPERIENCE:

Research Scientist, Department of Geomorphology-Geoecology

Tbilisi State University, Institute of Geography, Georgia

2009 - present

Laboratory Assistant, Department of Geomorphology-Geoecology

Tbilisi State University, Institute of Geography

2006-2009

Visiting Scientist

The National Science Foundation, USA, Ice Core Facility

Organizing 2019-20 field season Ice core from Allan Hills BIA,

Antarctica in archive and prepare for future research and analysis

Denver, CO, USA

05.06. 2022-18.06.2022

INTERNSHIP:

European Commission, Erasmus Mundus Action 2 Programme (ELEC1500077)

Politecnico di Torino, Italy

2015-2016

Land Management Department

Ministry of Environment Protection and Natural Resources of Georgia, Tbilisi

2009-2010

PUBLICATIONS:

- Lela Gadrani, Andrei V. Kurbatov, Elena Korotkikh, Pascal Bohleber, Paul A. Mayewski, and Michael Handley, *Interlaboratory Calibration for Laser Ablation of Ice Cores*, EGU General Assembly, **2023**
- Lela Gadrani, Pascal Bohleber, Michael Handley, Elena V. Korotkikh, Andrei V. Kurbatov, Paul A. Mayewski, *Calibration Methodology for Laser Ablation of Ice Core Samples*, Borns Symposium Mini papers, **2023**
- Lela Gadrani, Andrei V. Kurbatov, Paul A. Mayewski, Elena V. Korotkikh, *Ultra-high-resolution sampling of Allan Hills Blue Ice Area paleoclimate archive, using the CCI WM KECK Laser Ice Core Facility system*, Borns Symposium Mini papers, **2022**
- Mariam Tsitsagi, Nino Kharebava, Dali Nikolaishvili, Ia Kupatadze, Lela Gadrani, *Tbilisi Through Time*, Georgian Geographical Journal, **2022**
- Sh. Amanova; A. Camassa; C. Crenca; L. Fiumi; L. Gadrani; M. Ismayilov; M. Tsitsagi, *Study on land cover change in urban areas*, Atti degli 8i Incontri Mediterranei di Igiene Industriale, **2021**
- Levan Tielidze, David Svanadze, Lela Gadrani, Lasha Asanidze, Roger Wheate, *A 54-year record of changes at Chalaati and Zopkhito glaciers, Georgian Caucasus, observed from archival maps, satellite imagery, drone survey, and ground-based investigation*, Hungarian Geographical Bulletin, **2020**
- Zaza Lezhava, Lasha Asanidze, Kukuri. Tsikarishvili, Nino Chikhradze, Lela Gadrani and Giorgi Chartolani, *Hydrodynamic zones of fissure-karst waters of Zemo Imereti Plateau in the Republic of Georgia*. Journal of Environmental Biology, **2019**
- Lela Gadrani, Mariam Tsitsagi, L. Tielidze. *Urban Landscape of Georgia (On the Example of Large Cities)*, in book Geomorphology of Georgia, Springer, 2019
- Lela Gadrani, George Lominadze, Mariam Tsitsagi, *Assessment of Landuse/Landcover (LULC) changes of Tbilisi and surrounding area using Remote Sensing (RS) and (GIS)*, Annals of Agrarian Sciences, **2018**
- Lela Gadrani, George Gaprindashvili, *Modern Geo-Ecological Conditions and Terrain Transformation of Tbilisi (Georgia)*, Landscape Architecture and Regional Planning, **2017**
- Lela Gadrani, George Gaprindashvili, *Modern Geo-ecological Conditions of Tbilisi*, Ivane Javakhishvili Tbilisi state University, Vakhushti Bagrationi Institute of Geography, Tbilisi, **2015**
- L. Tielidze, L. Gadrani, M. Tsitsagi, N. Chikhradze. *Glaciers Dynamics Over the Last One Century in the Kodori River Basin, Caucasus Mountains, Georgia, Apkhazeti*, American Journal of Environmental Protection. Special Issue: Applied Ecology, Problems, Innovations, **2015**

- N. Elizbarashvili, G. Meladze, M. Meladze, L. Gadrani. *Some Urgent Issues of Georgia's Geography*. Earth Sciences, **2015**
- Levan Tielidze, Lela Gadrani, Roman Kumladze. *A One Century Record of Changes at Nenskra and Nakra River Basins Glaciers, Caucasus Mountains, Georgia*, Natural Science, **2015**
- Levan Tielidze, Lela Gadrani, *Tergi River Basin Glacial-Geomorphological research and Glacier evolution during the Pleistocene*, Ivane Javakhishvili Tbilisi state University, Vakhushti Bagrationi Institute of Geography, Tbilisi, **2013**.

RESEARCH GRANTS:

Pilot survey and selection of geoarchaeological records and metal-ore processing sites in the high elevation Svaneti region of the Caucasus for potential paleoclimate and macro-economic reconstructions from Ice Cores

The Robert and Judith Sturgis Family Foundation, USA, University of Maine
2023

Principal Investigator

Develop environmental research methodology using remote sensing based on the example of Rome and Tbilisi

Shota Rustaveli National Science Foundation
2021-2023

Principal Investigator

The Georgia Historical Ice Core Project (GHICP): saving, understanding and promoting a vanishing climate and cultural history of central Eurasia

Global Challenges Research Fund (GCRF) Networking Project between Georgia, USA, and UK
2020-2021

Collaborator

Classification of karst landscape of Georgia

Shota Rustaveli National Science Foundation
2019-2021

Key Personnel

Framework Program: Strategies of the Federal Government for International of Science and research-partnerships for Sustainable development in transition countries

BMBF-Federal Ministry of Education and Research, capacity Building by the Implementation of projects based on Partnership
2017-2019

Collaboration

The route of Georgian Industrial Heritage

Ministry of Education, Science, Culture and Sport of Georgia
2019

Project Manager

Famous and Unknown cultural route of Western Georgia

Ministry of Education, Science, Culture and Sport of Georgia

2019

Expert

Urban Expansion (CA) Modelling of Tbilisi on the Background of Active Terrain Transformation

Shota Rustaveli National Science Foundation

2016-2017

Key Personnel

Transformation and Planning of Landscape of Major Cities based on the Landscape of Tbilisi

European Commission, Politecnico di Torino, Italy, Erasmus Mundus
Action 2 Programme, (ELEC1500077)

2015-2016

Key Personnel

Glaciological Catalog of Georgia

Shota Rustaveli National Science Foundation, (AR/151/9-102/13)

2014-2016

Key Personnel

Glacier mass balance on the background of climate change

National Science Foundation of Georgia (GNSF/ST08/05_453)

2009-2012

Assistant

CONFERENCES:

**Climate change and human-environment interaction in the Caucasus:
geo-bio-archaeological and literary perspectives**

Kazbegi Glacier Paleo Ice Core Project

2023 12.01-12.03

Paris, France

Oral Presentation

Georgia Historical Ice-Core Project (GHICP): Pilot Publications and Next Stages

Results from 2021 GHICP expedition on Gergeti Glacier

2023 07.11-07.12

Tbilisi, Georgia

Oral Presentation

General Assembly 2023 of the European Geosciences

Interlaboratory Calibration for Laser Ablation of Ice Cores

2023 04.14-04.19

Vienna, Austria

Poster Presentation

30th Annual Harold W. Borns, Jr. Symposium

Calibration Methodology for Laser Ablation of Ice Core Samples

April 6, 2023

Orono ME, US

Oral Presentation

2023 UMaine Student Symposium

Interlaboratory Calibration for Laser Ablation on Ice Core
April 14, 2023
Orono ME, US
Poster Presentation

Second Caucasus Mountain Forum

Change in glacier area and number in Georgia from repeat inventories
2019 30.10-1.11
Ankara, Turkey
Oral Presentation

XXI International Conference on Industrial heritage

Resilience, Innovation and Sustainability

Sustainable Management of Georgian Hydroelectric Heritage
2019 25.09-29.09
Gijon, Spain
Oral Presentation

XX International Conference on Industrial heritage

Residence, Innovation and Sustainability

VI Ibero American Meeting on Heritage Management
Sustainable Management of Georgian Hydroelectric Heritage
2019
Gijon, Spain
Oral Presentation

Caucasus Mountain forum 2019

Glacier area and number change in Georgia from repeat inventories
2019 30.10-01.11
Ankara, Turkey
Oral Presentation

19th International Conference on Geography, Urban and Environmental Studies

Urban Expansion Modelling of Tbilisi on the Background of Active Terrain
Transformation
2017.18-19.05
Barcelona, Spain
Oral Presentation

LANGUAGES:

Georgian
English
Russian

OFFICIAL WEBSITES:

https://www.researchgate.net/profile/Lela_Gadrani
<https://glaciologygeorgia.wordpress.com>