

Curriculum Vitae - Levan Mumladze
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Personal information

Birth date: 1983.02.23

University address:

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Education

2007 – 2013. PhD in Life Sciences. Ilia State University, Institute of Ecology. Supervisor Prof. David Tarkhnishvili. Title of the thesis: Composition and Development of Georgian Malacofauna.

2004 – 2006. Master of Science in Biology. Ivane Javakhishvili State University, Tbilisi, Georgia.

2000 – 2004. Bachelor of Science in Biology. Ivane Javakhishvili State University, Tbilisi, Georgia.

Working Experience

since 2015. Assistant professor of Ilia State University

2012-2015. Head of Invertebrate Research Center

(IRC - <https://sites.google.com/site/rgetgeorgia/>)

2010 -2015. Assistant researcher. Institute of Ecology. Ilia State University (Tbilisi)

2007 – 2010. Researcher. Department of Invertebrate Animals. Institute of Zoology (Tbilisi)

2006 – 2009. Assistant of dean. Faculty of Life Science. Ilia State University (Tbilisi)

2003 – 2007. Lab assistant. Department of Invertebrate Animals. Institute of Ecology (Tbilisi)

Membership

2007 – 2010. Member of SCB (Society for Conservation Biology)

2011 – To date. Member of American Malacological Society.

2013 Member of UNITAS Malacologica - the society for worldwide malacologists and malacology.

Computer Skills

- Various statistical programs (SPSS, PAST, R, CANOCO etc.)
- GIS software (ArcGIS, ArcView GIS, Google Earth)
- Office and database programs (Access, BIOTA)
- Various programs used in animal community research

Language Skills

English - good

Russian – Reading
German – beginner
Turkish – beginner

**Research
Interest:**

- Species diversity and conservation within the Caucasus region.
- Biogeography of Caucasian Invertebrate fauna (molluscs, mites, dragonflies, diplopods etc)
- Community and metacommunity patterns and the underlying mechanisms (orbitaid mites, terrestrial snails and freshwater invertebrates, plants as model organisms).
- Species interactions and coexistence phenomenon in soil associated animals.

**Courses
supervised**

Master:

2013 : Academic writing – supervisor

2012-2013: Introductory course in statistics – assistant

2014 : Measuring biodiversity – supervisor

Bachelors:

2014.... : Field working practice (part time)

Professional education:

2008-2009: Introductory statistics

**Grants and
Awards:**

2018-2019 - Patterns and process of (meta)community development: artificial forests of Javakheti plateau as a model system. (SRNSF). PI. ID: YS17_85.

2017-2019 - Biodiversity of Freshwater Molluscs of Georgia (SRNSF). PI.

2016-2018. Impact of pesticides on soil ecosystem functioning - effect on soil invertebrate fauna (SRNSF/STCU). Key personnel. Responsibility - experimental design, field work, data analyses.

2015 – Awarded with Paskali Prize by Ilia State University for publishing high Eigen-Factor papers

2014 – 2017. Biodiversity of Hymenopterans in Lagodekhi Protected Areas. (SRNSF). Key personnel.. Responsibility – Data analyses.

2014 – 2017. Study of javakheti Upland Lakes for Sustainable Fisheries and Environmental development. Supported GNSF (SRNSF). Key Personnel. Responsibility – Study design, fieldwork, data analyses.

2014 – Awarded with Paskali Prize (two times) by Ilia State University for publishing high Eigen-Factor papers

2014. (Individual Research Project; finished) Conservation of Caucasian Wildlife: Applying the National Conservation Status to some Georgian Molluscs (Based on IUCN Criteria) - Stage 2. Rufford Small Grants.

2013-2015. Arthropod diversity in Mtirala National Park (SRNSF-31/88). Key personnel. Responsibility - study design, fieldwork, data analyses.

2012 – to date. Caucasus biodiversity research project – Moolusca. Team member:

<http://www.caucasus-snails.uni-hamburg.de/CaucasianLandSnails-Dateien/Team.html>

2012-2014. Biodiversity and heavy metal accumulation in soil invertebrates near polymetal tailing sites (Kazreti. Georgia) (SRNSF/STCU). Key personnel. Responsibilities: fieldwork and data analysis.

2012 – 2014. Research and REStoration of the Essential Filters of the Sea - REEFS. EU (European Union). Responsibility – preparing basis to construct artificial reefs in the Georgian Black Sea coast and the monitoring of community composition of sea mollusks associated with the reefs.

2013 – (Individual Research Project; finished) Distribution of Terrestrial snails of the Caucasus along an altitudinal gradient. German Academic Exchange Service (DAAD).

**Participation
in
international
meetings**

- 2011 – 2012 (finished). Evaluating of Forest Snail Endemicity in Georgian Transcaucasia – A Preliminary Study. Rufford Small Grant Foundation. http://www.ruffordsmallgrants.org/rsg/projects/levan_mumladzeThe aim of the project was to fill gaps and gather scattered distributional data of forest inhabiting Georgian endemic mollusks.
2010. (Individual research project). Preliminary study of the distribution and morphology of some snails (Mollusca, Gastropoda: Helix, Caucasotachea) endemic for the Caucasus. GNSF (Georgian National Scientific Foundation). The aim of the project was to investigate the distribution of Georgian endemic helioid species and study their morphological variability within the region.
- 2009-2011. The invertebrate animals of Colchis National Park (coastal part), their biodiversity and population of the main habitats and ecosystems (GNSF). Key Personnel. Responsibility - fieldwork, data analyses
- 2007-2009. Invertebrate Animals as Bioindicators of Urban Environment (GNSF/STCU - 4327). Key personnel. Responsibility - fieldwork, data analyses
2007. Web data base for development of Georgian red list (<http://www.biodiversity-georgia.net>). Financed by BP (British Petroleum, Georgian Office). Responsibility - Curator of Mollusks web-section and field work.
2007. (Individual research project). Refugial Forests of the Western Lesser Caucasus. Financed by CLP (Conservation Leadership Programme (Former BP Conservation Programme)). The aim of the project was to Identify and support conservation of the most important and vulnerable refugial forest sites from the Western Lesser Caucasus.
- 11-15.07.2016. Valencia, Spain. Polytechnical University of Valencia. 8th Symposium of European Association of Acarologists. Mumladze L, Murvanidze M, Todria N. Micro scale species richness of oribatid mites – implications for sampling strategy. <http://euraac.webs.upv.es/SympValencia/index.php>
- 7-11.09.2015. Porto, Portugal. XV European Congress of Ichthyology. Gibel carp population and its parasites in Madatapa Lake (South Georgia). Japoshvili B, Mumladze L, Murvanidze L and Bikashvili A. <http://www.affish.ulg.ac.be/?q=en/eci15>
- 18-2.11.2015. Bucharest, Romania. International Zoological Congress of “Grigore Antipa” Museum. Chromosome studies of some Georgian terrestrial molluscs (Mollusca: Gastropoda: Pulmonata). Bakhtadze NG, Chakvetadze NL, Mumladze LJ, Bakhtadze GI, Tskhadaia EA. <http://www.czga.ro/pagina.php?idarh=33>
- 14-18.07.2014. Kyoto, Japan. Kyoto TERRSA. International Congress of Acarology ICA XIV. Oribatida diversity in different microhabitats of Mtskheta National Park. Murvanidze M, Mumladze L, Arabuli T, Barjadze S, Salakaia M. <http://ica14.acarology-japan.org/>
- 22-28.07.2013. Ponta Delgada, Azores, Portugal. World Congress of Malacology. Sympatry Without Co-occurrence: Exploring The Pattern Of The Distribution Of Two Helix Species In Georgia Using Ecological Niche Modeling Approach. L. Mumladze. <http://www.unitasmalacologica.org/congress.html>
- 9-13.07. 2012. Vienna, Austria. Institute fuer Bodenkunde. 7th Symposium of European Association of Acarologists. Oribatid mite colonization of sand and manganese tailing sites. Murvanidze M, Mumladze L, Arabuli T, Kvavadze Er. https://euraac.webs.upv.es/society_info.php
- 23-27.08.2010. Recife, Brasil. Golden Tulip Recife Palace Hotel. International Congress of Acarologists ICA XIII. Landscape distribution of oribatid mites (Acari, Oribatida) in Kolkheti National Park (Georgia, Caucasus). Murvanidze M, Mumladze L, Arabuli T, Kvavadze Er www.acarology.org/ica/ica2010/
- 21-25.07.2008. Montpellier, France. SupAgro. 7th Symposium of European Association of Acarologists. The effect of fire disturbance on oribatid mite communities. Murvanidze M, Arabuli T, Kvavadze Er, Mumladze L. https://euraac.webs.upv.es/society_info.php

Publications

- Mumladze L, Ulrich W, Asanidze Z, Japoshvili G (2017) An inverse elevational species richness gradient of Caucasian vascular plants and Encyrtidae (Hymenoptera, Chalcidoidea). *Écoscience* 24, 75–79.
- Mumladze L, Asanidze Z, Walther F, Hausdorf B (2017) Beyond elevation: Testing the climatic variability hypothesis vs. Rapoport's rule in vascular plant and snail species in the Caucasus. *Biol J Linn Soc* 121, 753–763
- Grego J, Hofman S, Mumladze L, Falniowski A (2017) *Agrafia Szarowska et Falniowski*, 2011 (Caenogastropoda: Hydrobiidae) in the Caucasus. *Folia Malacologica* 25, 237–247.
- Mumladze L, Murvanidze M, Maraun M (2017). Patterns of oribatid mite species diversity: testing the effects of elevation, area and sampling effort. *Experimental and applied acarology* 72(3), 245-262
- Aslan EG, Mumladze L, Japoshvili G (2017) List of leaf beetles (Coleoptera: Chrysomelidae) from Lagodekhi reserve with new records for Transcaucasia and Georgia. *Zootaxa* 4277, 86-98
- Japoshvili B, Mumladze L, Murvanidze L (2017) The population of *Carassius gibelio* (Bloch, 1782) and its parasites in Madatapa Lake (South Georgia). *Iranian Journal of Fisheries Sciences* 16(2), 793-799
- Bakhtadze NG, Chakvetadze NL, Mumladze LJ, Bakhtadze GI, Tskhadaia EA (2016) Karyological data of terrestrial mollusks (Mollusca: Gastropoda: Pulmonata) of Georgia. *Proceedings of the Institute of Zoology XXV*: 23-27
- Gabelashvili S, Bikashvili A, Shubitidze Z, Gioshvili M, Pankvelashvili E, Mumladze L, Japoshvili B (2016) Family level diversity and distribution of macroinvertebrates of Madatapa, Khanchali and Bughdasheni lakes in Javakheti plateau (South Georgia). *Proceedings of the Institute of Zoology XXV*: 117-127
- Mumladze L, Paposhvili N (2016) A New Addition to the Malacofauna of Georgia – *Eobania Vermiculata* is Replenishing its Range. *Proceedings of the Institute of Zoology XXV*:153-155
- Seehausen M, Schröter A, Mumladze L, Grebe B (2016) Additional Odonata records from Georgia, southern Caucasus ecoregion, with the first record of *Ischnura fountaineae* (Odonata:Coenagrionidae). *Notulae Odonatologicae* 8 (8), 266-283
- Murvanidze M, Mumladze L, Arabuli T, Barjadze S, Salakaia M, (2016) Oribatida diversity in different microhabitats of Mtirala National Park. *Journal of Acarological Society of Japan* 25(S1), 35-49
- Tarkhnishvili D, Gabelaia M, Mumladze L, Murtskhvaladze M, (2016) Mitochondrial phylogeny of the *Darevskia saxicola* complex: two highly deviant evolutionary lineages from the easternmost part of the range. *Herpetological Journal* 26, 175–182
- Murvanidze M, Mumladze L (2016) Annotated checklist of Georgian oribatid mites. *Zootaxa* 4089 (1), 1-81
- Mumladze L (2015) Species of the Genus *Helix* (Mollusca, Gastropoda) in Georgia. *Proceedings of the Institute of Zoology XXIV*, 148-157
- Japoshvili G, Fallahzadeh M, Mumladze L (2015) Predictive modeling for better understanding distribution and systematics of useful Encyrtids (Hymenoptera: Chalcidoidea: Encyrtidae). *Annals of Agrarian Science* 13(1), 33-42
- Barjadze S, Murvanidze M, Arabuli T, Mumladze L, Pkhakadze V, Djanashvili R, Salakaia M (2015) Annotated list of invertebrates of the Georgian karst caves. *Georgian Academic Book, Tbilisi*. ISBN: 978- 9941-9371-2-5
- Mumladze L, Murvanidze M, Maraun M, Salakaia M (2015) Oribatid mite communities along an elevational gradient in Sairme gorge (Caucasus). *Experimental and Applied Acarology* 66(1), 41-51
- Mumladze L (2014) Sympatry without co-occurrence: exploring the pattern of distribution of two *Helix* species in Georgia using an ecological niche modelling approach. *Journal of Molluscan Studies* 80(3), 249-255
- Walther F, Kijashko PV, Harutyunova L, Mumladze L, Neiber MT, Hausdorf B (2014) Biogeography of the land snails of the Caucasus region. *TENTACLE* 3-5
- Murvanidze M, Mumladze L (2014) Oribatid mite (Acari: Oribatida) diversity in different forest stands of Borjom-Kharagauli National Park (Georgia). *Persian Journal of Acarology* 3(4), 257–276
- Bakhtadze NG, Chakvetadze NL, Mumladze LJ, Bakhtadze GI, Tskhadaia EA (2014) Karyological Studies in Terrestrial Mollusks (Mollusca: Gastropoda: Pulmonata) of Georgia. *International Conference «Biological Diversity and Conservation Problems of the Fauna of the Caucasus – 2»*, Armenia pp59-63

- Mumladze L, Cameron RAD, Pokryszko B (2014) Endemic Land Molluscs in Georgia: How Well are they Protected by Existing Reserves and National Parks? *Journal of Molluscan Studies* 80, 67-73
- Japoshvili B, Mumladze L, Kucuk F (2013) Invasive Carassius Carp in Georgia: Current State of Knowledge and Future Perspectives. *Current Zoology* 59, 732-739
- Murvanidze M, Mumladze M, Arabuli T, Kvavadze E (2013) Oribatid mite colonization of sand and manganese tailing sites. *Acarologia* 53, 203-215
- Mumladze L, Tarkhnishvili D, Murtskhvaladze M (2013) Systematics and Evolutionary History of Large Endemic Snails from the Caucasus (*Helix buchii*, *H. goderdzianai* (Helicidae). *American Malacological Bulletin* 31, 225-234
- Mumladze L (2013) Shell size differences in *Helix lucorum* Linnaeus, 1758 (Mollusca: Gastropoda) between natural and urban environments. *Turkish Journal of Zoology* 37, 1-6
- Mumladze L, Murvanidze M, Behan-Pelletier V (2013) Compositional patterns in Holarctic peat bog inhabiting oribatid mite (Acari: Oribatida) communities. *Pedobiologia* 56, 41-48
- Tarkhnishvili D, Gavashelishvili A, Mumladze L (2012) Palaeoclimatic models help to understand current distribution of Caucasian forest species. *Biological Journal of the Linnean Society* 105, 231-248
- Pokryszko BM, Cameron RAD, Mumladze L, Tarkhnishvili D (2011) Forest snail faunas from Georgian Transcaucasia: patterns of diversity in a Pleistocene refugium. *Biological Journal of the Linnean Society* 102, 239-250.
- Murvanidze M, Kvavadze E, Mumladze L, Arabuli T (2011) Comparison of Earthworms (Lumbricidae) and Oribatid Mite (Acari, Oribatida) communities in Natural and Urban Ecosystems. *Vestnik zoologii* 45, 16-24
- Murvanidze M, Mumladze L, Arabuli T, Kvavadze E (2011) Landscape distribution of oribatid mites (Acari, Oribatida) in Colchis National Park (Georgia, Caucasus). *Zoosymposia* 6, 221-233
- Tarkhnishvili D, Gavashelishvili A, Avaliani A, Murtskhvaladze M, Mumladze L (2010) Unisexual rock lizard might be outcompeting its bisexual progenitors in the Caucasus. *Biological Journal of the Linnean Society* 101, 447-460.
- Mumladze L, Tarkhnishvili D, Pokryszko BM (2008) A new species of the genus *Helix* from the Lesser Caucasus (SW Georgia). *Journal of Conchology* 39, 483-485
- Kvavadze EV, Rukhadze L, Nikolaishvili V, Mumladze L. (2008) Botanical and zoological remains from an early medieval grave at Tsitsamuri, Georgia. *Vegetation History and Archaeobotany* 17, 217-224
- Murvanidze M, Arabuli T, Kvavadze ES, Mumladze L (2008) The Effect of Fire Disturbance on Oribatid Mite Communities. *Integrative Acarology. Proceedings of the 6th European Congress. European Association of Acarologists* pp. 216-221