



Marine Murtskhvaladze

Nationality: Georgian | **Email address:** dna_lab@iliauni.edu.ge

Address: 3/5 K. Cholokashvili av., Room G304, [0162, Tbilisi, Georgia](#) (Work)

● WORK EXPERIENCE

05/04/2013 – CURRENT Tbilisi, Georgia

ASSOCIATE PROFESSOR ILIA STATE UNIVERSITY

Managing Molecular Genetic Laboratory, Lecturing, Supervising students' research projects, Conducting Research

01/01/2013 – CURRENT Tbilisi, Georgia

SCIENTIST GENOME CENTER R. LUGAR CENTER, L.SAKVARELIDZE NATIONAL CENTER FOR DISEASE CONTROL AND PUBLIC HEALTH (NCDC)

Genomic research, Data analysis, Optimization research pipelines.

01/10/2008 – 04/04/2013 Tbilisi, Georgia

ASSISTANT PROFESSOR ILIA STATE UNIVERSITY

Teaching, Supervising.

01/09/1998 – 01/02/2007 Tbilisi, Georgia

CONSERVATION PROGRAMS SPECIALIST NGO NACRES

Conservation of rear and endangered species of the Caucasus, Public awareness

01/10/2006 – 30/09/2008 Tbilisi, Georgia

UNIVERSITY RESEARCH ASSOCIATE ILIA STATE UNIVERSITY

Responsible for management of Molecular-Genetic laboratory

● EDUCATION AND TRAINING

31/05/2007 – 09/10/2012 Tbilisi, Georgia

PHD Ilia State University

Thesis title: "Phylogeny and Population Genetics of Animals in the Caucasus"

Address 3/5 K. Cholokashvili av, 0162, Tbilisi, Georgia

31/08/1999 – 30/06/2001 Tbilisi, Georgia

MSC Iv. Javakhishvili Tbilisi State University

Address University st 1, 0119, Tbilisi, Georgia

20/12/2016 – 27/07/2017

FULBRIGHT SCHOLAR University of Texas, Arlington TX, USA

01/07/2014 – 10/09/2014

VISITING POST DOCTORAL FELLOW Wellcome Sanger Institute, Hinxton, UK

01/07/2014 – 01/08/2014

SCIENCE AND ENGINEERING ENTREPRENEURSHIP CERTIFICATE PROGRAM San Diego State University, CA, USA

20/12/2008 – 01/05/2009

VISITING SCHOLAR University of Idaho, Moscow ID, USA

01/02/2008 – 01/06/2008

VISITING PHD STUDENT Zoological Research Museum Alexander Koenig, Bonn, Germany

01/11/2004 – 01/07/2005

VISITING SCHOLAR University of Idaho, Moscow ID, USA

● LANGUAGE SKILLS

Mother tongue(s): **GEORGIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C1
RUSSIAN	C1	C1	C1	C1	B2
GEORGIAN	C2	C2	C2	C2	C2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● DIGITAL SKILLS

NGS Data Analysis | Phylogenetic Tools BioEdit MEGA PAUP MrBayes PhyML | NCBI Blast GenBank | Geneious Prime Phylogenetic Tools BioEdit MEGA PAUP MrBayes PhyML | Population genetics

● ADDITIONAL INFORMATION

PUBLICATIONS

[Precise paternal ancestry of hybrid unisexual ZW lizards \(genus *Darevskia*: Lacertidae: Squamata\) revealed by Z-linked genomic markers](#)

– 2022

[Landscape genetics and the genetic legacy of Upper Paleolithic and Mesolithic hunter-gatherers in the modern Caucasus](#)

– 2021

[Genotypic similarities among the parthenogenetic *Darevskia* rock lizards with different hybrid origins](#)

– 2020

[Phylogeny of caucasian rock lizards \(*Darevskia*\) and other true lizards based on mitogenome analysis: Optimisation of the algorithms and gene selection](#)

– 2020

[Estimating phenotypic heritability of sexual and unisexually reproducing rock lizards \(genus *Darevskia*\)](#)

– 2020

[Molecular Phylogeny of Valentin's Lizard, *Darevskia valentini*, \(Boettger, 1892\) Reveals New Genetic Lineages and may suggest Taxonomic Reconstruction](#)

– 2019

[Partial genomic survival of cave bears in living brown bears](#) – 2018

[Coincidence of genotypes at two loci in two parthenogenetic rock lizards: how backcrosses might trigger adaptive speciation](#)

– 2017

[Landscape Complexity in the Caucasus Impedes Genetic Assimilation of Human Populations More Effectively than Language or Ethnicity](#)

– 2016

[Mitochondrial phylogeny of the *Darevskia saxicola* complex: two highly deviant evolutionary lineages from the easternmost part of the range](#)

– 2016

[Next Generation Sequencing Method of Avian Influenza Virus, Optimised Research Protocol](#) – 2016

[Seroepidemiology and molecular diversity of *Leishmania donovani* complex in Georgia](#) – 2016

[Human Paternal Lineages, Languages, and Environment in the Caucasus](#) – 2015

Phylogeography and morphological variation in a narrowly distributed Caucasian rock lizard, *Darevskia mixta*

– 2015

[Human paternal lineages, languages, and environment in the Caucasus](#) – 2014

[Systematics and Evolutionary History of Large Endemic Snails from the Caucasus \(*Helix buchii* and *H. goderdziana*\) \(Helicidae\)](#)

– 2013

PROJECTS

01/08/2020 – 01/02/2024

Caucasus Barcode of Life Genetic Research Coordinator, Co-PI

20/01/2023 – 31/12/2023

Characterization of an avian microbiome with a 16S metagenomic sequencing approach: model species - AIV infected mallard Principal investigator

02/12/2016 – 31/12/2019

Consequences of secondary contacts: to what extent reinforcement and niche shift accelerate speciation in lizards? Project Coordinator

03/12/2014 – 30/06/2016

Surveillance of Avian Influenza Virus and Characterization of Viral Quasi-Species in Georgia Principal Investigator

01/10/2010 – 31/12/2014

Surveillance of east European and Siberian large mammals Researcher

01/05/2009 – 30/05/2010

Conservation of Brown bear in the Caucasus Principal investigator

HONOURS AND AWARDS

20/05/2016

Fulbright Scholar – Fulbright U.S. Scholar grant

DAAD Scholar
