

Curriculum vitae

Name: Mariam Gabelaia

Nationality: Georgia

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Education

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| 2013-2019 | Joint doctorate in Life Sciences/Biology – Ilia State University (Georgia) / Ghent University (Belgium) |
| 2011-2013 | Master's degree in Ecology – Ilia State University (Georgia) |
| 2006-2010 | Bachelor's degree in Physics - Ivane Javakhishvili Tbilisi State University (Georgia) |

Scientific career

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| 2021-present | Technical assistant of the Morphology Laboratory - The Leibniz Institute for the Analysis of Biodiversity Change - LIB (Germany) |
| 2020-2021 | Margarethe Koenig awardee, post-doctoral position - The Leibniz Institute for the Analysis of Biodiversity Change - LIB (Germany) |
| 2018-2020 | Key personnel in the project “Resolving reticulate speciation process in bisexual and parthenogenetic lizards of genus <i>Darevskia</i> in Eastern Anatolia and Caucasus” - Tubitak/ Shota Rustaveli National Science Foundation - Ilia State University (Georgia) |
| 2016-2020 | Key personnel in the project “Consequences of secondary contacts: to what extent reinforcement and niche shift accelerate speciation in lizards?” - Shota Rustaveli National Science Foundation - Ilia State University (Georgia) |
| 2016-2017 | Assistant researcher - Ilia State University (Georgia) |

2012-2014 Assistant researcher - Ilia State University (Georgia)

Received Fellowships and awards

2020 Margarethe Koenig Award for a post-doctorate at the Museum Koenig in Bonn.

2019 Short research visit to Bonn (Germany) - Alexander von Humboldt Foundation

2014-2016 Scholarship for exchange doctorate studies in Ghent University (Belgium) - Erasmus Mundus Action 2 (Euroeast)

International Forums / Conferences

2021 GfBS (Gesellschaft für Biologische Systematik) - Morphological boundaries among the species of the Caucasian rock lizards (Genus *Darevskia*) – online conference

2019 Caucasus Mountain Forum 2019 – “Morphological boundaries among Caucasian rock lizard species (Genus *Darevskia*)“ - Ankara, Turkey

2018 5th Ecology and Evolutionary Biology Symposium – “Use of 3 dimensional geometric morphometrics for identification of closely related species of Caucasian rock lizards (*Darevskia*)” - Izmir, Turkey

2018 Rufford Small Grants Conference “Conservation across the Caucasus” - Conservation of endangered and endemic *Vipera kaznakovi* in Georgia” - Kazbegi, Georgia

2017 24th Zoology Symposium (Genotype-phenotype map: from model systems to ecosystems) – “Phylogenetic signal in 3D morphology of Caucasian rock lizards” - Wageningen, Netherlands

2016 International Congress of Vertebrate Morphology – “Interspecific and intersexual morphometric variation in *Darevskia* lizards based on anal scale shape” - Washington DC, USA

2015 6th International meeting on cranio-cervical systems in vertebrates - Ghent, Belgium

Third-party Fundings

2021 Research grant of 1000 USD (ca. 820 EURO) – allowance for CT-scanning - RTNN Kickstarter program

2020 Research grant of 7 875 EURO – “An integrative evolutionary assessment of avian brain structure using landmark-free geometric morphometrics” - Innovationsfond

- 2019 SYNTHESYS+ grant to visit the Zoologisches Forschungsmuseum Alexander Koenig in Bonn, Germany.
- 2018-2019 Conservation research grant of 5 000 GBP (ca. 5 500 EURO) - "Conservation of endangered and endemic *Vipera kaznakovi* in Georgia" – The Rufford Foundation
- 2016-2018 Individual research grant of 28 059 GEL (ca. 8 200 EURO) – "Reveal body shape adaptations using 3D geometric morphometric methods in sympatric lizards across Western Caucasus" - Shota Rustaveli National Science Foundation

List of Publications

1. Yanchukov, A., Tarkhnishvili, D., Erdolu, M., Şahin, M. K., Candan, K., Murtskhvaladze, M., Gabelaia, M., Iankoshvili, G., Barateli, N., Ilgaz, Ç., Kumlutaş, Y., Matur, F., Çolak, F., Arakelyan, M. & Galoyan, E. (2022). Precise paternal ancestry of hybrid unisexual ZW lizards (genus *Darevskia*: Lacertidae: Squamata) revealed by Z-linked genomic markers. *Biological Journal of the Linnean Society*, 136(2), 293-305. <https://doi.org/10.1093/biolinnean/blac023>
2. Wasiljew, B. D., Pfaender, J., Wipfler, B., Gabelaia, M., Utama, I. V., Wantania, L. L., & Herder, F. (2021). Sexual dimorphism in an adaptive radiation: Does intersexual niche differentiation result in ecological character displacement?. *Ecology and Evolution*, 11(21), 14615-14629. <https://doi.org/10.1002/ece3.8137>
3. Galoyan, E., Moskalenko, V., Gabelaia, M., Tarkhnishvili, D., Spangenberg, V., Chamkina, A., & Arakelyan, M. (2020). Syntopy of two species of rock lizards (*Darevskia raddei* and *Darevskia portschinskii*) may not lead to hybridization between them. *Zoologischer Anzeiger*, 288, 43-52. <https://doi.org/10.1016/j.jcz.2020.06.007>
4. Tarkhnishvili, D., Yanchukov, A., Şahin, M. K., Gabelaia, M., Murtskhvaladze, M., Candan, K., Galoyan, E., Arakelyan, M., Iankoshvili, G., Kumlutaş, Y., Ilgaz, Ç., Matur, F., Çolak, F., Erdolu, M., Kurdadze, S., Barateli, N., & Anderson, C. L. (2020). Genotypic similarities among the parthenogenetic *Darevskia* rock lizards with different hybrid origins. *BMC Evolutionary Biology*, 20(1), 1-25. <https://doi.org/10.1186/s12862-020-01690-9>
5. Tarkhnishvili, D., Gabelaia, M., & Adriaens, D. (2020). Phenotypic divergence, convergence and evolution of Caucasian rock lizards (*Darevskia*). *Biological Journal of the Linnean Society*, 130(1), 142-155. <https://doi.org/10.1093/biolinnean/blaa021>
6. Gabelaia, M., Tarkhnishvili, D., & Adriaens, D. (2018). Use of three-dimensional geometric morphometrics for the identification of closely related species of Caucasian rock lizards (Lacertidae: *Darevskia*). *Biological Journal of the Linnean Society*, 125(4), 709-717. <https://doi.org/10.1093/biolinnean/bly143>
7. Tarkhnishvili, D., Gabelaia, M., Kandaurov, A., Bukhnikashvili, A., & Iankoshvili, G. (2017). Isolated population of the Middle Eastern *Phoenicolacerta laevis* from the Georgian Black Sea Coast, and its genetic closeness to populations from southern Turkey. *Zoology in the Middle East*, 63(4), 311-315. <https://doi.org/10.1080/09397140.2017.1361191>
8. Gabelaia, M., Adriaens, D., & Tarkhnishvili, D. (2017). Phylogenetic signals in scale shape in Caucasian rock lizards (*Darevskia* species). *Zoologischer Anzeiger*, 268, 32-40. <https://doi.org/10.1016/j.jcz.2017.04.004>
9. 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". *The Herpetological Journal*, 26(2), 175-182.

10. Gabelaia, M., Tarkhnishvili, D., & Murtskhvaladze, M. (2015). Phylogeography and morphological variation in a narrowly distributed Caucasian rock lizard, *Darevskia mixta*. *Amphibia-Reptilia*, 36(1), 45-54. <https://doi.org/10.1163/15685381-00002975>
11. Tarkhnishvili, D., Gavashelishvili, A., Murtskhvaladze, M., Gabelaia, M., & Tevzadze, G. (2014). Human paternal lineages, languages and environment in the Caucasus. *Human Biology*, 86(2), 113-130. <https://doi.org/10.3378/027.086.0205>

Language skills

Georgian - native

English - fluent

Russian - fluent

German - Intermediate