

## About the hotspot

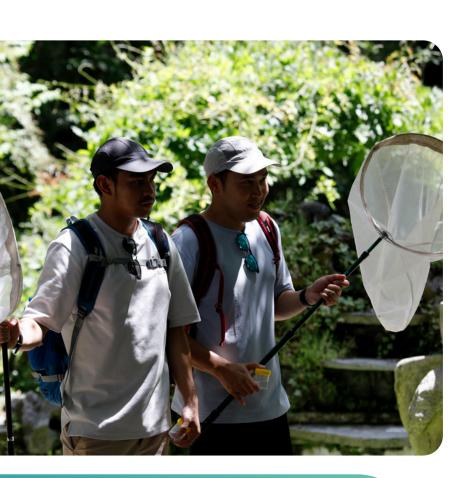
Georgia is situated in the heart of the Caucasus, where wetlands, lakes, forests, and rocky slopes support numerous endemic and threatened species. Climate change is already reshaping these making locally ecosystems, grounded monitoring and conservation urgent. Yet Georgia remains a genomic blind spot: many species on the national IUCN Red List still lack DNA barcodes and reference genomes, limiting evidence-based management and adaptation planning.



Georgia lies within the Greater
Black Sea ecoregion (a WWF
"priority place") and overlaps
two global biodiversity hotspots
recognised by Conservation
International: the Caucasus and
Iran-Anatolian hotspots.

In June 2024, the **GEORBLITZ** team ran two citizen-science BioBlitzes to kick-start biodiversity recording and genomics awareness: Lisi Lake (Tbilisi) and the Kutaisi Botanical Garden.

Local community members teamed up with experts and students from Ilia State University (ISU) for hands-on sessions. Participants standard field practiced methods, sweeping, foliage beating, hand collection, and worked in three taxon-focused groups. Specimens were labelled in ethanol for observation, with material set aside for future genetic analyses. They were examined under microscopes under guidance from specialists. On-site educational stands with preserved and live specimens sparked conversations about how DNA barcodes and reference inform species genomes assessment, conservation, and restoration.









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Field observations spanned reptiles (e.g., dice snake, spur-thighed tortoise), amphibians (marsh frog, green toad), arthropods (house centipede, Alpiscorpius scorpions), birds (from reed warblers and swifts to orioles and jays), and even mammals (Caucasian squirrel), underscoring the conservation value of urbanadjacent green spaces. The initiative also reached a wider audience through Georgian national TV, which reported live from the Lisi Lake event.



## **Explore observations:**

- <u>Lisi Lake iNaturalist project:</u>
- Kutaisi Botanical Garden iNaturalist project
- Media: Live TV report (Lisi Lake):
   https://www.facebook.com/share/
   v/TVwW31FwVNcjS71R/?
   mibextid=SphRi8

Photos by the School of Natural Sciences and Medicine, Ilia State University; Giorgi lankoshvili.





