

# Structural-Kinematic Interpretation of Secondary Tectonic Deformations Within the City of Tbilisi

**Gvantsa Kanchashvili**

[\*gvantsa.kanchashvili104@ens.tsu.edu.ge\*](mailto:gvantsa.kanchashvili104@ens.tsu.edu.ge)

Department of Geology, Faculty of Natural and Exact Science,  
Iv. Javakhishvili Tbilisi State University  
University Street 13, Tbilisi, Georgia, 0186

As a result of field observations carried out within Tbilisi area, many small-amplitude, mainly secondary tectonic structures were discerned: ruptures, wrinkles, flexures, and other types of tectonic deformities. In addition to natural outcrops, the main material was collected in the caves of the newly cut foundations in the building constructing process. The structural-kinematic interpretation of the studied tectonic deformations indicates the existence of a north-trending horizontal compression vector and the existence area of dynamic influence of so called Tbilisi meridional deep sault.