



Sopio Khutsishvili

Position

Alexandre Janelidze Institute of Geology, Department of Stratigraphy and Paleontology, Scientist

Scientific/academic degree, title

Master of Science (MSc);

Contact information

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Education

1985 – 1990 – Ivane Javakhishvili Tbilisi State University, Engineer-geologist.

Employment history

Since 2012 – TSU Alexandre Janelidze Institute of Geology of Ivane Javakhishvili Tbilisi State University, Department of Paleontology and Stratigraphy, Scientist.

2006-2012 – Alexandre Janelidze Institute of Geology, Department of Stratigraphy and Paleontology, Scientist.

1992-2006 – Al. Janelidze Institute of Geology - Department of Stratigraphy and Paleontology, Junior researcher.

Research Interests

Biostratigraphy (stratigraphy of Miocene oil bearing rocks based on Mollusca fossils). Providing dating based on possible new fossil discoveries. Correlation of absolute dating with stratigraphical chronology. Determining of the age of mineralization. Creating of a new stratigraphy - lithofacies scale for region based on all recent observation and data. Understanding of the factors such as climate and changing base level that contour the environment.

Publications

1. *Alfred Uchman, Zurab Lebanidze, Nino Kobakhidze, Tamar Beridze, Davit Makadze, Koba Lobzhanidze, **Sophio Khutsishvili**, Rusudan Chagelishvili, Kakha Koiava, Nino Khundadze.* (2022). Unusual echinoid resting trace from the Palaeogene of the Lesser Caucasus in Georgia records a change in position of the redox boundary. *Acta Geologica Polonica*. (in print).
2. *Uchman, A., Lebanidze, Z., Beridze, T., Kobakhidze, N., Lobzhanidze, K., Makadze, D., **Khutsishvili, S.**, Chagelishvili, R., Koiava, K., Khundadze, N.* (2022) Revision of the trace fossil *Megagraption Książkiewicz*, 1968 with focus on *Megagraption aequale* Seilacher, 1977 from the lower Eocene of the Lesser Caucasus in Georgia. *Geological Quarterly*, 66:8, pp.19-39. <http://dx.doi.org/10.7306/gq.1640>
3. *Uchman, A., Lebanidze, Z., Beridze, T., Kobakhidze, N., Lobzhanidze, K., **Khutsishvili, S.**, Chagelishvili, R., Makadze, D., Koiava, K., Khundadze, N.* (2020) Abundant trace fossil *Polykampton* in Palaeogene deep-sea flysch deposits of the Lesser Caucasus in Georgia: Palaeoecological and palaeoenvironmental implications. *Palaeogeography, Palaeoclimatology and Palaeoecology*, 558, 109958, pp. 2-17.
4. *Gugushvili, V., Beridze, T., Chkhotua, T., **Khutsishvili, S.**, Migineishvili R.* (2018) Volcanologic and metallogenic indicators of the stages of geodynamic development of Eurasian active margin and synvolcanic and postvolcanic block faulting exemplified by Bolnisi ore district. Monograph - Iv. Javakhishvili Tbilisi State University, Al. Janelidze Institute of Geology. New Series 130, 123 p. ISBN 978-9941-27-934-8.
5. *Alania V., Enukidze O., Glonti N., Razmadze A., Chabukiani A., Giorgadze A., Glonti V., Koiava K., Beridze T., **Khutsishvili S.**, Chagelishvili R.* (2018). Structural Architecture of the Kura Foreland Fold-and-thrust Belt Using Seismic Reflection Profile, Georgia//*Universal Journal of Geoscience* 6(6), pp. 184-190.
6. *Gugushvili, V., Beridze, T., **Khutsishvili, S.**, Migineishvili R.* (2016). Phanerozoic metallogeny of the Caucasus region during the Tethys ocean subduction and et the post-collision stage5 - *Bulletin of the Georgian National Academy of Sciences*, 10(3), pp. 79-89.
7. *Minashvili, Ts., **Khutsishvili, S.**, Ananiashvili, G.* (2015). About Biostratigraphy of Middle Miocene Deposits of Eastern Paratethys. Alexandre Janelidze Institute of Geology of Ivane Javakhishvili Tbilisi State University, Collections of works, p.39-49. (in Georgian).
8. *Popkhadze, N., Moritz, R., Gialli, S., Beridze, T., Gugushvili, V., **Khutsishvili, S.*** (2013). Major volcano-sedimentary facies types of the Madneuli polymetallic deposit, Bolnisi district, Georgia: Implications for the host rock depositional environment. 12th SGA Biennial Meeting "Mineral Deposit research for a high-tech world", Uppsala, Sweden. *Proceedings Volume 2*, p. 576-579.
9. *Gugushvili, V., Popkhadze, N., Beridze, T., **Khutsishvili, S.**, Chkhotua, T., Tsimakuridze, G.* (2010). Evolution of the Tethys Ocean expressed in Metallogeny of the Caucasus and Pontides. *Proceedings of A. Janelidze institute of Geology. New Series*, vol. 125. Tbilisi, pp.81-88.
10. *Gugushvili, V., Beridze, T., **Khutsishvili, S.**, Popkhadze, N.* (2010). Sources of base, precious and rare metals during the Tethyan Phanerozoic evolution of the Caucasus and Pontides. *Proceeding of the XIX CBGA Congress, Thessaloniki, Greece, Special volume 100*, p. 333-341.
11. *Popkhadze, N., Beridze, T., Moritz, R., Gugushvili, V., **Khutsishvili, S.*** (2010). Summary of the principal volcano-sedimentary facies types of the Madneuli copper-gold polymetallic deposit, bolnisi district, georgia: Implications for the host rock depositional environment. Extended abstracts of the SEG student conference: The Challenge of Finding New Mineral Resources: Global Metallogeny, Innovative Exploration, and New Discoveries. *Keystone, Colorado, USA*. Pp.40-43.
12. *Popkhadze, N., Beridze, T., Moritz, R., Gugushvili, V., **Khutsishvili, S.*** (2009). New data about the volcano-sedimentary setting of the Cretaceous Madneuli polymetallic massive sulphide deposit, Bolnisi district, Lesser Caucasus, Georgia. *In: Williams, P. et al (eds), Proceedings of the 10th biennial SGA meeting, Townsville, Australia*. p. 278-480.

13. *Popkhadze, N., Beridze, T., Moritz, R., Gugushvili, V., Khutsishvili, S.* (2009). Facies analysis of the volcano-sedimentary host-rocks of the Cretaceous Madneuli massive sulphide deposit, Bolnisi district, Georgia. *Bulletin of the Georgian National Academy of Sciences*, 3(2), pp. 103-108.
14. *Khutsishvili S.*, (2006). For the Stratigraphy of Karaganian and Konkian sediments of Georgia. *Georgian Oil and Gas*, 19, p. 69-74. (in Georgian).
15. *Gavtadze T., Migineishvili R., Khutsishvili S.* (2006). New data on the age of enclosing rocks of the Madneuli copper-gold deposit. *Georgian Oil and Gas*, 17, pp. 33-37. (in Georgian).
16. *Beridze T., Popkhadze N., Chagelishvili R., Khutsishvili S.*, (2004). New data about Eocene volcanic and volcanogenic-sedimentary deposits of Akhaltsicke region. *Proceedings of Geol. Institute of Georgian Academy of Science*, new series 119, pp. 631-642. (in Russian).

Citation index

Scopus - 5, h-index - 2; Google Scholar - 39, h-index - 4.

Conference abstracts

1. Trace fossils in Paleocene-Lower Eocene deep-sea sediments of the eastern segment of the Achara-Trialeti Fold-Thrust Belt. Nino Kobakhidze, Zurab Lebanidze, Tamar Beridze, Davit Makadze, Alfred Uchman, Rusudan Chagelishvili, Koba Lobzhanidze, **Sophio Khutsishvili**, Kakha Koiava, Nino Khundadze. 19th Swiss Geosciences Conference (meeting). Geneva, Switzerland. 19-20 November 2021. Abstracts, P.7, pp.27-28.
2. The trace fossil *Polykampton georgianum* horizon in the Paleocene deposits of the Achara-Trialeti fold-and-thrust belt (Georgia). Zurab Lebanidze, Alfred Uchman, Tamar Beridze, Nino Kobakhidze, Koba Lobzhanidze, **Sophio Khutsishvili**, Rusudan Chagelishvili, Davit Makadze, Kakha Koiava, Nino Khundadze. 19th Swiss Geosciences Conference (meeting). Geneva, Switzerland. 19-20 November 2021. Abstracts, P.77, p.29.
3. Ichnological-sedimentological indicators of deep-sea environment in Lower Eocene deposits of the Borjomi region (Georgia). Tamar Beridze, Zurab Lebanidze, Alfred Uchman, Koba Lobzhanidze, **Sophio Khutsishvili**, Rusudan Chagelishvili, Nino Kobakhidze, Davit Makadze 35th IAS Meeting of Sedimentology, Prague, Czech, June 21-25 2021. Abstracts, pp. 55-56.
4. Sedimentological-Ichnological Analysis of the Ardagani-1 Section (Palaeocene-Lower Eocene Borjomi Suite, Georgia). Alfred Uchman, Zurab Lebanidze, Tamar Beridze, Nino Kobakhidze, Koba Lobzhanidze, **Sophio Khutsishvili**, Rusudan Chagelishvili, Davit Makadze, Kakha Koiava, Nino Khundadze. 6th International Scientific – Practical Conference on Up-to-date Problems of Mining and Geology, “Technical University”, Tbilisi, Georgia, 24-25 Septembers. 2020. Abstracts, pp. 89-90.
5. Trace fossils in Paleocene-Lower Eocene deep-sea sediments (“Borjomi Flysh”) of the Achara-Trialeti Fold-Thrust Belt“ Z. Lebanidze, T. Beridze, N. Kobakhidze, **S. Khutsishvili**, R. Chagelishvili, K. Koiava, N. Khundadze, A. Uchman. 34th IAS Meeting of Sedimentology. Rome, Italy, 10-13 September 2019. Abstracts, p. 383.
6. Late Cretaceous Trace Fossils from the Eastern Part of the Great Caucasus Fold-Thrust Belt: Implication for Sedimentary Basin Analysis. Tamar Beridze, Zurab Lebanidze, Kakha Koiava, **Sophio Khutsishvili**, Rusudan Chagelishvili, Anzor Giorgadze, and Nino Khundadze. General Assembly of the European Geosciences Association (EGU-2018). Viena, Austria. April 5-8, 2018. Abstracts. Vol. 20, p.11616.
7. Interrelation of Regional Metamorphism, Volcanism, Hydrothermal Activity and Metallogeny During the Tethys Ocean Subduction and at Post-collision Stage of Eurasian Continental Margin Development. Vladimer Gugushvili, Tamar Beridze, Tamar Chkhotua, **Sophio Khutsishvili**,

- Ramaz Migineishvili. 15th Swiss Geoscience Meeting. Davos, Switzerland 17-18 November, 2017. Abstracts, pp. 80-81.
8. Trace Fossils from Deep Sea Sediments of the Palaeocene-Lower Eocene Borjomi Suite Exposed in the Eastern Part of the Achara-Trialeti Fold-Thrust Belt, Georgia. Zurab Lebanidze, Tamar Beridze, Kakha Koiava, **Sophio Khutsishvili**, Rusudan Chagelishvili, Nino Khundadze. 15th Swiss Geoscience Meeting. Davos, Switzerland 17-18 November, 2017. Abstracts, pp. 169.
 9. Sedimentological-paleoichnological studies in Georgia. Beridze T., Lebanidze Z., Koiava K., **Khutsishvili S.**, Chagelishvili R., Khundadze N. 3rd International Scientific – Practical Conference on Up-to-date Problems of Geology, “Technical University”, Tbilisi, Georgia, 1-2 June, 2017. Abstracts, pp.22-25.
 10. Impact of Magmatism on the Geodynamic Evolution of Southern Georgia on the Example of the Lesser Caucasus Artvin-Bolnisi Block. N.Sadradze, Sh.Adamia, G.Zakariadze, T.Beridze, **S.Khutsishvili**. General Assembly of the European Geosciences Association (EGU); Vena, Austria, 23-28 April, 2017. Abstracts, Vol. 19, EGU, 2017-6894.
 11. Upper Eocene Ichnofauna of the Tbilisi Suite in the Eastern Segment of the Achara-Trialeti Fold and Thrust Belt, Georgia: Revised Data. Beridze T., Koiava K., **Khutsishvili S.**, Chagelishvili R., Khundadze N., Lebanidze Z. The 4th International Congress on Ichnology Ichnia 2016. Castelo Branco, Portugal, 1-6 May, 2016. Abstracts, pp. 28-29.
 12. Trace Fossils in the Paleogene Deposits of Borjomi Area (the Central Segment of the Achara-Trialeti Fold and Thrust Belt, Georgia): Preliminary Data of Ichnological Studies. Lebanidze Z., Koiava K., **Khutsishvili S.**, Chagelishvili R., Khundadze N., Beridze T. The 4th International Congress on Ichnology Ichnia 2016. Castelo Branco, Portugal, 1-6 May, 2016. Abstracts, pp. 42-43.
 13. The first evidence of trace fossils in Upper Eocene sediments of Tbilisi environs (the Achara-Trialeti fold-thrust belt, Georgia) and their geological significance. Beridze T., Lebanidze Z., Koiava K., **Khutsishvili S.**, Chagelishvili R., Khundadze N. 31st IAS Meeting of Sedimentology held in Krakow. Polish Geological Society. Kraków, Poland. June 22-25, 2015. Abstracts, 637 p. 63.
 14. Major volcano-sedimentary facies types of the Madneuli polymetallic deposit, Bolnisi district, Georgia: Implications for the host rock depositional environment. Nino Popkhadze, Robert Moritz, Stefano Gialli, Tamar Beridze, Vladimer Gugushvil, **Sophio Khutsishvili**. 12 th Biennial SGA Meeting – Mineral deposit research for a high-tech world. Uppsala, Sweden. 12-15 August, 2013. Abstracts, pp. 576-579.
 15. Textural Features Related to Cretaceous Host-Rocks of Madneuli Cu-Au Deposit-Useful Criteria for Stratigraphic Correlations. Doliashvili L.; Beridze T.; **Khutsishvili S.** 5th International Scientific Conference of Young Scientists and Students - “Fundamental and applied geological science through the eyes of young scientists: achievements, prospects, problems and ways of their solutions”, Baku, Azerbaijan. 14 -15 November, 2013. Abstracts, pp.122-124.
 16. Sedimentary Features Related to Cretaceous Host-rock Succession of Madneli Cu-Au Deposit-Useful Criteria for Stratigraphic Correlations and Basin Analysis. Tamara Beridze, **Sophio Khutsishvili**, Nino Popkhadze, Levan Doliashvili. Conference on Recent Research Activities and New Results about the Regional Geology, the Geodynamics and the Metallogeny of the Lesser Caucasus. A SCOPES meeting. Tbilisi, Georgia. April 16-18, 2013. Abstracts, p.11.
 17. New Volcano-Sedimentary Constrains for the Geological Environment of the Host Rocks of the Madneli Deposit, Bolnisi district, Georgia. Nino Popkhadze, Robert Moritz, Stephano Gialli, Tamara Beridze, Vladimer Gugushvili, **Sophio Khutsishvili**. Conference on Recent Research Activities and New Results about the Regional Geology, the Geodynamics and the Metallogeny of the Lesser Caucasus. A SCOPES meeting. Tbilisi, Georgia. April 16-18, 2013. Abstracts, p.12.

18. Principal Volcano-Sedimentary Facies Types of the Madneuli Copper-Gold-Polymetallic Deposit, Bolnisi District, Georgia. Nino Popkhadze (Georgia), Robert Moritz (Switzerland), Tamara Beridze, Vladimer Gugushvili, and **Sophio Khutsishvili**. International workshop: "Gold and Base Metal Deposits of the Mediterranean and the South Caucasus – Challenges and Opportunities", Tbilisi, Georgia, November 11-15, 2012. Abstracts, pp. 37-39.
19. Characteristics of the Late Cretaceous Bolnisi VMS-epithermal mining district host rock petrology and geochemistry, Lesser Caucasus, Georgia. Nino Popkhadze, Robert Moritz, Tamara Beridze, Vladimer Gugushvili, **Sophio Khutsishvili**, Stefano Gialli. Gordon Research Conference: Geochemistry of Mineral Deposits. USA. July 15-20. 2012. Abstracts, pp.94-96.
20. Stratigraphy and sedimentology of the Cretaceous host-rocks of the Madneuli gold-polymetallic deposit, Lesser Caucasus, southern Georgia: A new approach. Beridze T., **Khutsishvili S.**, Popkhadze N., Moritz R., Gugushvili V. 9th Swiss Geoscience Meeting Zürich, 11 - 13 November Zurich, Switzerland 2011. Abstracts, pp. 2.4.
21. Main volcano-sedimentary Lithofacies at the Cretaceous Madneuli copper-gold polymetallic deposit, Lesser Caucasus, Georgia. Popkhadze N., Beridze T., Moritz R., Gugushvili V., **Khutsishvili S.** 9th Swiss Geoscience Meeting Zürich, 11 - 13 November Zurich, Switzerland 2011. Abstracts, pp. 2.23.
22. Sources of base, precious and rare metals during the Tethyan Phanerozoic evolution of the Caucasus and Pontides. Gugushvili V., Beridze T., **Khutsishvili S.**, Popkhadze N. XIX Congress of the Carpatian Balkan Geological Association, Thessaloniki, Greece, September 23-26, 2010. Abstracts, Vol. 100, pp. 333-341.
23. Main volcano-sedimentary litho-facial overview of the cretaceous Madneuli copper-gold polymetallic deposit, Bolnisi district, Georgia. Popkhadze N., Beridze T., Moritz R., Gugushvili V., **Khutsishvili S.** International Scientific Conference "Problems of geology of the Caucasus". Tbilisi, Georgia. November 25-27, 2010. Abstracts, pp. 88-90.
24. Metallogenic sources of nonferrous, precious and metals of the Caucasus and Pontides. Gugushvili V., Beridze T., **Khutsishvili S.**, Popkhadze N. International Scientific Conference "Problems of geology of the Caucasus". Tbilisi, Georgia. November 25-27, 2010. Abstracts, pp. 43-44.
25. About the cyclic development of Miocene basins of the eastern Paratethys. Ananiashvili G., Minashvili Ts., **Khutsishvili S.** International Scientific Conference "Problems of geology of the Caucasus". Tbilisi, Georgia. November 25-27, 2010. Abstracts, pp. 3-4.
26. Summary of the principal volcano-sedimentary facies types of the Madneuli copper-gold polymetallic deposit, bolnisi district, Georgia: Implications for the host rock depositional environment. Pophkadze N., Beridze T., Moritz R., Gugushvili V., **Khutsishvili S.** SEG student conference: The Challenge of Finding New Mineral Resources: Global Metallogeny, Innovative Exploration, and New Discoveries. Keystone, Colorado, USA, September 24 - October 10, 2010. pp.40-43.
27. Metallogeny and Sources of Non-Ferrrous and Rare Metals in the Various Geodynamic Settings Exemplified by the Caucasus and Pontides Phanerozoic evolution. Gugushvili V., Beridze T., T. Chkhotua., **Khutsishvili S.**, Pophkadze N., Tsimakuridze G. Recent research activities and new result about the regional geology, the geodynamics and the metallogeny of the Caucasus and the Balkans. Tbilisi, Georgia. 27-29 May, 2009. Abstracts, pp. 5.
28. New Data about the Volcano-Sedimentary Setting of the Cretaceous Madneuli Polymetallic Massive Sulphide Deposit, Georgia. Pophkadze N., Beridze T., Moritz R., Gugushvili V., **Khutsishvili S.** Recent research activities and new result about the regional geology, the geodynamics and the metallogeny of the Caucasus and the Balkans. Tbilisi, Georgia. 27-29 May 2009. Abstracts, pp.10-11.

29. New data about the Volcano-Sedimentary Setting of the Cretaceous Madneuli Polymetallic Massive Sulphide Deposit, Bolnisi district, Lesser Caucasus, Georgia. Pophkadze N., Beridze T., Moritz R., Gugushvili V., **Khutsishvili S.** 10-th SGA (Society for Geology applied to mineral deposits) meeting. Australia, Townsville, 14-26 August 2009. Abstracts, pp. 478-480.
30. Uraveli Sequence: Implication for the Basin formation During the Middle-Upper Eocene time, The Achara-Trialeti, Georgia. Beridze T., Alania V., **Khutsishvili S.**, Chagelishvili R., Pophkadze N. Enuqidze O. Advances in regional geological and metallogenic studies in the Carpathians, Balkans, Rhodope Massif and Caucasus. Bor. Serbia. 4-7 September, 2007. Abstracts, pp. 21-25
31. Oligocene-Neogene Growth Strata at Eastern Achara-Trialeti Fold and Thrust Belt, Georgia. Beridze T., **Khutsishvili S.**, Alania V., Chagelishvili R., Enukidze O., Mikeladze V., Pophkadze N., Razmadze A. Thrust belt and foreland basins. France, Paris, 14-16 December, 2005. Abstracts, pp. 26-27.
32. Paleogene Achara-Trialeti Back-arc rift basin: formation and evolution. Beridze T., **Khutsishvili S.**, Chagelishvili R., Pophkadze N. 32-nd International Geological congress. Italy, Florence. August 20-28, 2004. Abstracts, pp. 291-292.

Participation in Scientific projects

1. Ichnology and Sedimentology of the Paleocene-Lower Eocene Sediments in the Achara-Trialeti Fold and Thrust Belt, Georgia. 2019.21.02-2022.21.02. Shota Rustaveli Georgian National Science Foundation FR-18-3765. Project coordinator, Key Personnel.
2. Gold-copper porphyry and nonsulfide epigenetic mineralization genesis in Bolnisi ore district in relation with volcanic activity on the background of late subduction stage of Tethyan active margin development. 2015-2018. Shota Rustaveli Georgian National Science Foundation, FR/81/9-152/14. Key Personnel.
3. Geodynamic evolution of the Lesser Caucasus mountain belt: consequences on the natural resources, active tectonics and risks locations (Part of Georgia). 2011-2013. Grant of the Georgian National Science Foundation - Project International Research Group "South Caucasus Geosciences" (IRG) GNSF/780/04-01. Invited specialist.
4. Metallogeny of the lesser Caucasus. 2009-2012. Swiss national science foundation; The SCOPES project № IZ73ZO_128324; (Switzerland-Georgia-Armenia and Azerbaijan). Key Personnel.
5. Gold copper porphyry and epithermal low sulfidation gold mineralization of the Bolnisi ore district, ore formation and economical perspective. 2008-2010. Georgian National Science Foundation №GNSF/STO7/5-204. Key Personnel,
6. Peculiarities Cretaceous-Paleogene volcanism evolution and volcano-sedimentary lithogenesis of Ajara-Trialeti folded zone and neighboring areas. 2004-2005. Ministry of Education and Science of Georgian legal Entity of Public Law. Al. Janelidze Institute of Geology. Key Personnel.

Additional information

Since 2019 - Member of the Representative Council of Ivane Javakishvili Tbilisi State University.