

Curriculum Vitae

First name(s) / Surname(s) **ELITSA STOYANOVA ZAREVA**

Address (business) University of mining and geology „St. Ivan Rilski” – Sofia, 1700
“Studentski grad”, “Proff. Boyan Kamenov” str.
Geology and Paleontology Department

Telephone +359 2 8060 497

E-mail elitsa.zareva@mgu.bg

Positions (at moment) Chief assistant

Dates 11.2006 – today

Occupation or position held Assistant

Name and address of employer University of Mining and Geology “St. Ivan Rilski”

Dates 08.2004-10.2006

Occupation or position held Field geologist

Name and address of employer NII “Geology and Geophysics” PLC

Dates 07.2003-09.2003

Occupation or position held Trainee

Name and address of employer “Hereward Ventures” PLC

Education and training

Dates 2000-2004

Title of qualification awarded BSc, Geology of Mineral Resources

Educational institution University of Mining and Geology “St. Ivan Rilski”

Dates 2004-2006

Title of qualification awarded MSc, Regional geology

Educational institution University of Mining and Geology “St. Ivan Rilski”

Dates 2007-2011

Title of qualification awarded PhD student, Regional geology

Educational institution University of Mining and Geology “St. Ivan Rilski”

Mother tongue(s) **Bulgarian**

Other language(s) **English, Italian**

Self-assessment

European level (*)

English

Italian

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Listening		Reading	
C2	Proficient level	C1	Proficient level	B2	Working level	C1	Proficient level	C1	Proficient level
B1	Working level	C1	Working level	B1	Working level	B1	Working level	B2	Working level

(*) [Common European Framework of Reference for Languages](http://europass.cedefop.europa.eu)

Professional information and applications

Professional and Research interests
(key words)

Regional Geology, Geological Mapping and Interpretation, GIS, 3D Visualization, Geological Heritage, Museum Collections and Digitization

Patents and Inventions	
Membership of professional and trade organization	2004-today: Bulgarian Geological Society (BGS); 2001-2007: American Association of Petroleum Geologists
Publications	
Projects	
Participation in scientific sessions, conferences and congresses (for last 5 year)	Appendix 1 Appendix 2 ➤ 60th International Scientific Conference of the University of Mining and Geology "St. Ivan Rilski", 2017 ➤ 67th International Scientific Conference of the University of Mining and Geology "St. Ivan Rilski", 2024 ➤ 68th International Scientific Conference of the University of Mining and Geology "St. Ivan Rilski", 2025 ➤ 69th International Scientific Conference of the University of Mining and Geology "St. Ivan Rilski", 2026 ➤ International Scientific Conference with International Participation "GEOSCIENCES 2022" ➤ International Scientific Conference with International Participation "GEOSCIENCES 2023" ➤ International Scientific Conference with International Participation "GEOSCIENCES 2024" ➤ 23rd International Multidisciplinary Scientific GeoConference SGEM 2023, 28–30 November 2023 ➤ 9th International Conference on Cartography and GIS, 16–21 June 2024, Nessebar, Bulgaria ➤ International Subcommittee on Silurian Stratigraphy (ISSS) and Subcommittee on Devonian Stratigraphy (SDS), 12–17 September 2024, Sofia, Bulgaria ➤ Jubilee Scientific Conference with International Participation "100 Years of the Bulgarian Geological Society", 2025 ➤ 10th Jubilee International Scientific Conference Geobalcanica, 6–7 May 2026, Ohrid, North Macedonia
Specialization abroad (for last 5 year)	
Other professional skills	➤ Geochemical sampling of primary dispersion halos; ➤ Geological logging and sampling of drill cores and trenches; ➤ Geological mapping and field-based geological investigations; ➤ Processing, analysis and visualization of geological data using MapInfo Professional and ArcGIS Professional; ➤ GPS positioning and georeferencing of field data; ➤ Heavy-mineral analysis – separation and identification of heavy and light mineral fractions; ➤ Museum collection management, documentation and cataloguing; ➤ Documentation, cataloguing, systematization and 3D visualization of museum collections.

SELECTED PUBLICATIONS

1. Milovanov, P., Petrov, I., **Ilieva, E.**, Goranov, E., Jeleu, V., Pristavova, S. 2006. Geology of Milevets mountain - SW Bulgaria, according to new data from geologic map of Bulgaria (1:50 000). Proceedings XVIII-th congress of the Carpathian-Balkan Geological Association, September 3-6, 2006, Belgrade, Serbia.
2. Ajdanlijsky, G., Nehrizov, G., **Ilieva, E.**, Zlatanov, D. 2008. Mineralogical peculiarities of the heavy mineral fraction from the pottery and the sediments from the archaeological site "Ada Tepe" Krumovgrad district. In: *Geoarchaeology and Archaeomineralogy* (Eds. R. I. Kostov, B. Gaydarska, M. Gurova). 2008. Proceedings of the International Conference, 29-30 October 2008 Sofia, Publishing House "St. Ivan Rilski", Sofia, 282-287.
3. **Ilieva, E.**, V. Zhelev. 2010. New data on the geology of Golo bardo area. - *Ann. UMG*, 53, Part I – Geol. and Geophys, 65-68.
4. **Ilieva, E.**, I. Dimitrov. 2011. Гънкова интерференция в мезозойските скали на Голо бърдо, Западна България. - *Ann. UMG*, 54, Part I – Geol. and Geophys, 39-44.
5. Milovanov, P., E. Goranov, V. Zhelev, I. Petrov, **E. Ilieva**, E. Naydenov, D. Sinnyovsky, S. Pristavova. 2006. *Explanatory Note to the Geological Map of the Republic of Bulgaria scale 1:50 000. Map Sheets K-34-57-B (Bosilegrad) and K-34-58-A (Trekliano)*. Sofia, Consortium Geokomplex Ltd, „Uniscorp“ Ltd., 59 pp. (In Bulgarian and English).
6. Milovanov, P., E. Goranov, V. Zhelev, I. Petrov, **E. Ilieva**, E. Naydenov, D. Sinnyovsky, S. Pristavova. 2006. *Explanatory Note to the Geological Map of the Republic of Bulgaria scale 1:50 000. Map Sheet K-34-58-B (Radomir)*. Sofia, Consortium Geokomplex Ltd, „Uniscorp“ Ltd., 56 pp. (In Bulgarian and English).
7. Milovanov, P., E. Goranov, V. Zhelev, I. Petrov, **E. Ilieva**, E. Naydenov, D. Sinnyovsky, S. Pristavova. 2006. *Explanatory Note to the Geological Map of the Republic of Bulgaria scale 1:50 000. Map Sheet K-34-57-G (Raychilovtsi) and K-34-58-V (Dragovishtitsa)*. Sofia, Consortium Geokomplex Ltd, „Uniscorp“ Ltd., 59 pp. (In Bulgarian and English).
8. Milovanov, P., E. Goranov, V. Zhelev, I. Petrov, **E. Ilieva**, E. Naydenov, D. Sinnyovsky, S. Pristavova. 2006. *Explanatory Note to the Geological Map of the Republic of Bulgaria scale 1:50 000. Map Sheet K-34-58-G (Zemen)*. Sofia, Consortium Geokomplex Ltd, „Uniscorp“ Ltd., 64 pp. (In Bulgarian and English).
9. Milovanov, P., I. Klimov, V. Zhelev, I. Petrov, D. Sinnyovsky, V. Valev, **E. Ilieva**, E. Naydenov, S. Pristavova. 2008. *Explanatory Note to the Geological Map of the Republic of Bulgaria scale 1:50 000. Map Sheet K-34-69-B (Kriva Palanka) u K-34-70-A (Krustendil)*. Sofia, Consortium Geokomplex Ltd, Bulgarian National Geological Survey, „Uniscorp“ Ltd., 86 pp. (In Bulgarian and English)
10. Zhelev, V., P. Milovanov, D. Sinnyovsky, I. Petrov, I. Klimov, V. Valev, **E. Ilieva**, E. Naydenov, S. Pristavova. 2008. *Explanatory Note to the Geological Map of the Republic of Bulgaria scale 1:50 000. Map Sheet K-34-70-B (Konyavo)*. Sofia, Consortium Geokomplex Ltd, „Uniscorp“ Ltd., 76 pp. (In Bulgarian and English)
11. Milovanov, P., I. Klimov, V. Zhelev, I. Petrov, D. Sinnyovsky, V. Valev, **E. Ilieva**, E. Naydenov, S. Pristavova. 2008. *Explanatory Note to the Geological Map of the Republic of Bulgaria scale 1:50 000. Map Sheet K-34-70-V (Rakovo)*. Sofia, Consortium Geokomplex Ltd, „Uniscorp“ Ltd., 77 pp. (In Bulgarian and English)
12. Milovanov, P., I. Petrov, V. Zhelev, I. Klimov, D. Sinnyovsky, V. Valev, **E. Ilieva**, E. Naydenov, S. Pristavova. 2008. *Explanatory Note to the Geological Map of the Republic of Bulgaria scale 1:50 000. Map Sheet K-34-70-G (Vaksevo)*. Sofia, Consortium Geokomplex Ltd, „Uniscorp“ Ltd., 66 pp. (In Bulgarian and English)
13. Milovanov, P., I. Petrov, V. Valev, A. Marinova, I. Klimov, D. Sinnyovsky, M. Ichev, **E. Ilieva**, S. Pristavova, B. Banushev. 2009. *Explanatory Note to the Geological Map of the Republic of Bulgaria scale 1:50 000. Map Sheet K-34-83-B (Razlog)*. Sofia, Consortium Geokomplex Ltd, „Uniscorp“ Ltd., 68 pp. (In Bulgarian and English)
14. Milovanov, P., I. Petrov, V. Valev, A. Marinova, I. Klimov, D. Sinnyovsky, M. Ichev, S. Pristavova, **E. Ilieva**, B. Banushev. 2009. *Explanatory Note to the Geological Map of the Republic of Bulgaria scale 1:50 000. Map Sheet K-34-82-B (Delchevo) u K-34-83-A (Simittli)*. Sofia, Consortium Geokomplex Ltd, „Uniscorp“ Ltd., 108 pp. (In Bulgarian and English)
15. Milovanov, P., I. Petrov, V. Valev, A. Marinova, I. Klimov, D. Sinnyovsky, M. Ichev, S. Pristavova, **E. Ilieva**, B. Banushev. 2009. *Explanatory Note to the Geological Map of the Republic of Bulgaria scale 1:50 000. Map Sheet K-34-82-G (Berovo) u K-34-83-B (Kresna)*. Sofia, Consortium Geokomplex Ltd, „Uniscorp“ Ltd., 76 pp. (In Bulgarian and English)

16. Milovanov, P., I. Petrov, V. Valev, A. Marinova, I. Klimov, D. Sinnyovsky, M. Ichev, **E. Ilieva**, S. Pristavova, B. Banushev. 2009. *Explanatory Note to the Geological Map of the Republic of Bulgaria scale 1:50 000. Map Sheet K-34-83-G (Bansko)*. Sofia, Consortium Geokomplex Ltd, „Uniscorp“ Ltd., 60 pp. (In Bulgarian and English)
17. **Ilieva, E.**, V. Zhelev. 2010. New data on the geology of Golo bardo, Western Bulgaria. *Ann. UMG, Geol. and Geophys.*, 65.
18. **Ilieva, E.**, I. Dimitrov. 2011. Fold interference in the Mesozoic rocks of Golo bardo, Western Bulgaria. *Ann. UMG, Geol. and Geophys.*, 39.
19. Jelev, V., **E. Ilieva**, B. Valchev. 2012. New data about the Kostalevo fault (Bulgaria). *Ann. UMG*, 55, 1, *Geol. and Geophys.*, 75-79.
20. **Ilieva, E.** 2017. Geological features of the Mesozoic section between the villages of Staro Selo and Studena in the Golo Bardo mountain, Western Bulgaria. *Ann. Min. Geol. Sci.*, 60, 1, *Geol. Geophys.*, 75-82.
21. **Zareva, E.** 2021. New data on the lithostratigraphy of the Paleogene from Pernik, Nikolaevo and Malinovo Grabens. *Rev. of Bulg. Geol. Soc.* 82, 1, 31-46.
22. Nikolova, V., **E. Zareva**. 2022. Geodiversity Assessment by Application of Geoinformation Approach (on the Example of Golo Bardo Mountain, Western Bulgaria). *Forum Geografic.* 21, 1, 18-26.
23. Marinova, K., V. Sachanski, St. Stoykov, R. Pazderov, B. Banushev, M. Vatskicheva, **E. Zareva**, M. Dimitrov, B. Chaush, S. Kostadinov. 2022. Digitalization and creation of 3D 360-degree HDR 4K virtual tour with interactive tags of the Museum of Unique Crystals Ilia Deleff, Museum of Geology and Paleontology, Museum of Mineralogy, Petrology and Mineral Resources and Museum of Physics at the University of Mining and Geology St. Ivan Rilski. *Rev. of Bulg. Geol. Soc.*, 83, 3, 349-350.
24. Marinova, K., **E. Zareva**. 2023. Contemporary trends and interactive forms of presentation of the museums at the University of Mining and Geology “St. Ivan Rilski”. *Rev. of Bulg. Geol. Soc.* 84, 3, 363-366.
25. Tcherkezova, E., **E. Zareva**, N. Yordanov. 2023. GIS-based landslide and rockfall susceptibility zoning in Chepelarska River Basin (Western Rhodope Mountains, Bulgaria). *Engineering Geology and Hydrogeology* 37, 117-132.
26. Tcherkezova, E., **E. Zareva**, V. Stoyanova, D. Vasilev. 2023. Identification of urban landscape units based on Sentinel-2A satellite imagery and illegal landfills: case study from Velingrad city (Bulgaria). 23rd SGEM International Multidisciplinary Scientific GeoConference 2023. <https://doi.org/10.5593/sgem2023V/6.2/s27.78>
27. Sachanski, V., **E. Zareva**. 2024. The Silurian and the Devonian in the Svoje Unit, Western Bulgaria – a brief overview. *Geologica Balcanica*, 53, 3, 23–35; <https://doi.org/10.52321/GeolBalc.53.3.23>
28. **Zareva E.**, V. Sachanski, L. Metodiev, B. Valchev, D. Sachkov, M. Stefanov, D. Yanev. 2024. Iskar Gorge and Ledenika cave – a brief overview. *Geologica Balcanica*, 53, 3, 3–11; <https://doi.org/10.52321/GeolBalc.53.3.3>
29. Stoyanova V., E. Tcherkezova, St. Genchev, **E. Zareva**. 2024. Land use and land cover change in the Chepinska valley for 30 years period. Conference: 9th International Conference on Cartography and GIS, 16-21 June 2024, Nesebar.
30. **Zareva E.**, K. Marinova. 2024. Project: QR code labeling of the expositions in the Museum of Unique Crystals "Ilia Deleff" and creating an exposition with fluorescent minerals. *Rev. Bulg. Geol. Soc.*, 85, 3, 343.
31. **Zareva, E.**, K. Marinova, V. Kadadiyski, S. Stoyanov, K. Blazhev. 2025. Innovations in the modern appearance of museums at the university of mining and geology "st. Ivan rilski" – Sofia, Bulgaria. *Annual of the University of Mining and Geology “St. Ivan Rilski”*, 68, 293-297, doi.org/10.5281/zenodo.17160930
32. **Zareva E.**, K. Marinova. 2025. Software 3D reconstruction and visualization of museum exhibits. *Review of the Bulgarian Geological Society*, 86, 3, p. 387
33. Marinova, K. **E. Zareva**. 2025. The geological diversity in the museums at the University of mining and geology “St. Ivan Rilski. Publishing House “St. Ivan Rilski” of the University of Mining and Geology “St. Ivan Rilski”, 23 pp. ISBN 978-954-353-494-4

SELECTED PROJECTS

1. **Contract ГПФ-208/2017.** *Development of a Correlation Scheme for Research and Educational Purposes of the Non-Layered Igneous and Metamorphic Complexes of the Rila-Rhodope Massif.* 2017. Funded by the University Scientific Fund of the University of Mining and Geology "St. Ivan Rilski". Project leader: Assoc. Prof. Boris Valchev, PhD.
2. **Contract ГПФ-230/2020.** *Geochemical Impact and Assessment of the Regeneration Potential of the Natural Environment in Areas of Former Underground Mining Sites: A Case Study of the Deposits in the Bakadzhik and Krumovo Ore Fields.* 2020. Funded by the University Scientific Fund of the University of Mining and Geology "St. Ivan Rilski". Project leader: Assoc. Prof. Boris Valchev, PhD.
3. **Contract ГПФ-235/2021.** *Enrichment of the Main Collections of the Museum of Geology and Paleontology and the Museum of Mineralogy, Petrography and Mineral Resources with Thematic Collections from the Balkan and Thracian Terranes.* Funded by the University Scientific Fund of the University of Mining and Geology "St. Ivan Rilski". Project leader: Assoc. Prof. Valeri Sachanski, PhD.
4. **Contract № КП-06-Н55/5 15.11.2021.** (November 2021 – November 2026) *Intelligent Risk Management for Businesses Related to Adverse Events and Natural Disasters.* Funded by the Bulgarian National Science Fund, Ministry of Education and Science, under the 2021 Call for Fundamental Scientific Research.
5. **Contract № КП-06-Н64/6 15.12.2022.** „Модел на антропогенното въздействие върху природната среда на ниво „речен басейн“ (ModAiNe)“. Project leader: Assoc. Prof. Emilia Tcherkezova, PhD.
6. **Contract ГПФ ТХ 01/09.05.2022.** *Digitization and Creation of a 360-Degree HDR 4K Virtual Tour with Interactive Tags for the "Ilia Delev Museum of Unique Crystals", the Museum of Geology and Paleontology, the Museum of Mineralogy, Petrography and Mineral Resources at the University of Mining and Geology "St. Ivan Rilski", and the Museum of Physics.* Funded by the University Scientific Fund of the University of Mining and Geology "St. Ivan Rilski". Project leader: Assist. Prof. Kamelia Marinova, PhD.
7. **Contract ХТ 004-10.05/2023.** *Creation of an Information Guide for the "Ilia Delev Museum of Unique Crystals", the Museum of Geology and Paleontology, and the Museum of Mineralogy, Petrography and Mineral Resources at the University of Mining and Geology "St. Ivan Rilski".* Funded by the University Scientific Fund of the University of Mining and Geology "St. Ivan Rilski". Project leader: Chief Assist. Prof. Elitsa Zareva, PhD.
8. **Contract ХТ-005/08.03.2024.** *Indexing of the Exhibitions at the "Ilia Delev Museum of Unique Crystals" Using QR Codes and Creation of an Exhibition of UV Minerals.* Funded by the University Scientific Fund of the University of Mining and Geology "St. Ivan Rilski". Project leader: Chief Assist. Prof. Elitsa Zareva, PhD.
9. **Contract ГПФ-253/08.03.2024.** *Monitoring of Slope Processes through Remote Sensing and Field Investigations and Modelling.* Funded by the University Scientific Fund of the University of Mining and Geology "St. Ivan Rilski". Project leader: Chief Assist. Prof. Dimitar Sachkov, PhD.
10. **Contract ХТ-006/01.04.2025.** *Software-Based 3D Reconstruction and Visualization of Museum Specimens.* Funded by the University Scientific Fund of the University of Mining and Geology "St. Ivan Rilski". Project leader: Chief Assist. Prof. Elitsa Zareva, PhD.
11. **Contract ГПФ-258/01.04.2025.** *Corundum Mineralization in Marbles from the Central Rhodopes: Mineralogical and Geochemical Characteristics.* Project leader: Chief Assist. Prof. Kamelia Marinova, PhD.