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**Research interests:** Forest ecology, Green infrastructure, Natural resources management, Landscape ecology, GIS

**Education:**

2016 PhD – Physical geography and landscape science, National institute of geophysics, geodesy and geography – BAS

2012 Master of Engineering in Geodesy, University of architecture, civil engineering and geodesy, Sofia

**Academic recognition:**

Danubius Young Scientist Award, 2016. Federal Ministry of Science, Research and Economy, Austria

**Training:**

2016: Post-doctoral fellow in the international research center UMI iGlobes, CNRS/Department of Biosphere 2, University of Arizona, USA

**Employment:**

2018 - present: Chief assistant in section Forest ecology, Forest Research Institute, BAS

2017 - 2018: Assistant in section Forest ecology, Forest Research Institute, BAS

2017: Consultant - Water resources data and mapping, Water security & IWRM GSG program, The World Bank Group

2016: Key expert "Spatial data processing" – TUNESinURB Project

2014-2016: Researcher – SWAN Project

**Administrative responsibilities:**

2018 - present: PR in Forest Research Institute – BAS

**Membership in scientific organisations:** Bulgarian Cartographic Association; Bulgarian Geographic Society; Bulgarian Antarctic Institute, Ecosystem Services Partnership (ESP)

**Publications:**

Selected publications over the last five years:

- Georgieva M, Zhelev C, Zhiyanski M, Georgiev G, Hristova M., Bozhilova, M, **Yaneva R**, Koychev, B (2024) Conceptual basis for studying the fungal biodiversity in organogenic soils in the area of the Bulgarian Antarctic Base 'St. Kliment Ohridski' on Livingston Island. *Silva Balcanica*, 25, (1), Pensoft, DOI: 10.3897/silvabalcanica.25.e119195, 5-11
- Dimitrov D.P, **Yaneva R** (2024) Influence of temperature anomalies on the annual growth of the width of annual rings of common beech (*Fagus sylvatica* L.) in Stara Planina (in Bulgarian). *Forest science*, 60, 3, Dedraks, 83-93
- Glushkova M, Zhiyanski M, **Yaneva R** (2023) Assessment and mapping the potential of mountain ecosystems in "Pirin" NP to provide "Cultural heritage". *Silva Balcanica*, 24, 2, Pensoft, DOI:10.3897/silvabalcanica.24.e106658, 45-57
- Polyakov V, Abakumov E, Nizamutdinov T, Tembotov R, Ivanov M, Mavludov B, Kushnov I, **Yaneva R**, Zhiyanski M (2023) Concentration of trace elements in Mountain and Polar Regions of the World. *Geosciences*, 13, MDPI, DOI:<https://doi.org/10.3390/geosciences13060188>, 188. SJR (Scopus):0.66
- Glushkova M, Zhiyanski M, Bozhilova M, **Yaneva R** (2022) Mapping of selected cultural ecosystem services provided by protected areas in Velingrad Municipality. *Forest Science, Special Issue, Prof. Marin Drinov*, ISSN:0861-007X, 193-203
- Abakumov E, **Yaneva R**, Polyakov V, Zhiyanski M (2022) Characterization of Humic Acids Isolated from Selected Soils of Livingston Island by CP/MAS 13C NMR and ESR Spectroscopy. *Applied and Environmental Soil Science*, Hindawi, <https://doi.org/10.1155/2022/7540077>
- Abakumov E, Lupachev A, **Yaneva R**, Zhiyanski M (2022) Micromorphological structure of maritime antarctic cryosols (King-George and Livingston Islands, West Antarctica). *Czech Polar Reports*, 11, 2, Masaryk University Press,
- Stoeva L, Zhiyanski M, Glushkova M, **Yaneva R**, Markoff I (2021) Highland forest ecosystems in Rila mountain and their role in providing climate regulation services at a regional level. *Наука за гората*, 57, 2, проф. Марин Дринов, Институт за гората - БАН, ISSN:0861-007X, 125-134
- Zhiyanski M, Glushkova M, Dodev Y, Bozhilova M, **Yaneva R**, Hristova D, Semerdzhieva L (2021) Role of the cultural ecosystem services provided by natural heritage in forest territories for sustainable regional development. *Journal of the Bulgarian Geographical Society*, Volume 45, Pensoft, 61-66
- Glushkova M, Zhiyanski M, Nedkov S, **Yaneva R**, Stoeva L (2020) Ecosystem services from mountain forest ecosystems: conceptual framework, approach and challenges. *Silva balcanica*, 21, 1, DOI: 10.3897/silvabalcanica.21.e54628, 47-68
- Yaneva R**, Zhiyanski M, Dodev Y (2020) Bioaccumulation of potentially toxic elements within the soil-plant system in Central Balkan region: analysis of the forest ecosystem capacity to mediate toxic elements. *Environmental Geochemistry and Health*, Special Issue, Springer Netherlands, 565-577.
- Glushkova M, Zhiyanski M, **Yaneva R** (2020) Assessment and mapping of mountain forest ecosystem services: the case study of Pirin National park. *Proceedings Vol. 1, 8th International Conference on Cartography and GIS, Nessebar, Bulgaria* ISSN: 1314-0604, Eds: Bandrova T., Konečný M., Marinova S., 1, Bulgarian Cartographic Association, 251-259.

Glushkova M, Zhiyanski M, Bozhilova M, **Yaneva R** (2020) Mapping economic valuation of selected ecosystem services provided by a protected area in Rhodopes Mountain. Proceedings Vol. 1, 8th International Conference on Cartography and GIS, Nessebar, Bulgaria ISSN: 1314-0604, Eds: Bandrova T., Konečný M., Marinova S., 1, Bulgarian Cartographic Association. 222-232.

Zhiyanski M, Glushkova M, **Yaneva R** (2020) Mapping soil properties and radionuclides distribution in polar ecosystems of Livingston Island. Proceedings Vol. 1, 8th International Conference on Cartography and GIS, Nessebar, Bulgaria ISSN: 1314-0604, Eds: Bandrova T., Konečný M., Marinova S., 1, Bulgarian Cartographic Association, ISSN:1314-0604, 213-222.

Varumo L, **Yaneva R**, Koppel T, Koske I.-M, Garcia M.C, Sozzo S, Morello E, Dictor M-C (2020) An empirical analysis of citizen engagement for the EU post-2020 biodiversity strategy. Sustainability, 12, 4, MDPI, ISSN:20711050.

Abakumov E, Zhiyanski M, **Yaneva R** (2020) An ornithogenic factor in the formation of tundra vegetation and gray-humus soils on Livingston Island, West Antarctica. Russian ornithological journal, 29. (in Russian)

### **Research projects:**

Selected projects for last five years:

- Antarctica InSync: A Science Mission for Antarctica and the Southern Ocean in 2027-2030 as a contribution to the UN Ocean Decade, Funding: UNESCO, Coordinator: Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research (2023-2032)
- КП-06-КОСТ/11 Integrated system for supporting decision-making for environmental risk assessment and management – EcoRiskGuard, National Scientific Fund, Ministry of Education and Science. PI: Senior Assistant PhD Todor Stoyanov (2025-2027)
- A survey of fungal biodiversity in organogenic soils on Livingston Island, National programme for polar research, Ministry of education and science. Project coordinator: Prof. Margarita Georgieva (2023-2025)
- Evaluation of erosion and the effectiveness of implemented anti-erosion activities in the watershed of the Sedelska River, a tributary of Struma River, National Scientific Fund, Ministry of education and science. Project coordinator: Chief assist. Eli Pavlova-Traykova (2021-2023)
- Assessment and mapping of ecosystem services in high-mountain territories in Rila and Pirin for sustainable management of natural resources (MAPESMOUNT), National Scientific Fund, Ministry of education and science. Project coordinator: Assist. Prof. Maria Glushkova (2019 – 2023)
- Biodiversity of forest ecosystems in Sredna Stara planina Mountain under the condition of changes. National Scientific Fund, Ministry of education and science. Project coordinator: Chief assist. Rositsa Yaneva, PhD (2020-2022)
- Assessment of the regional contribution of soils of maritime Antarctica islands to global carbon balance with evaluation of stabilization and humification rate of organic matter -

National Scientific Fund, Ministry of education and science. Project coordinator: Prof. Miglena Zhiyanski (2019-2021)

- Greenhouse gases inventory from the land use, land-use change and forestry (LULUCF) and the relevant part of the UNFCCC National Report for 2018 and 2019: PI FRI-BAS: Assist. Lora Stoeva (2019 – 2021)
- Mapping and comparative assessment of ecosystem services in mountain protected areas in Rhodopes (Bulgaria) and Altai (Russia) – MOUNTPRO, National Scientific Fund, Ministry of education and science. Project coordinator: Assoc. Prof. Maria Glushkova, PhD (2019 – 2021)
- Forest treeline shifting in the forest reserve Tsarichina - example of positive response of the forest ecosystems to the climate change and land use change. National Scientific Fund, Ministry of education and science. Project coordinator: Chief assist. Dimitar P. Dimitrov, PhD (2019 – 2021)
- Soil Erosion and Torrential Flood Prevention: Curriculum Development at the Universities of Western Balkans Countries (SETOF). ERASMUS+, Horizon 2020. PI FRI\_BAS: Chief assist. Eli Pavlova-Traikova, PhD (2018-2021)
- National research program "Environmental protection and reduction of adverse events and natural disasters' risks"- WP 1.8, Ministry of education and science. PI FRI\_BAS: Prof. Miglena Zhiyanski (2018-2023)
- Biomonitoring of polar ecosystem components' state in Livingston Island under global changes (BIOMONPOLAR) – National programme for polar research, Ministry of education and science. Project coordinator: Prof. Miglena Zhiyanski (2018 –2019)
- Integrated analysis on the capacity of forest ecosystems from Sredna Stara planina Mountain to reduce the impact of toxic elements: state, dispersion, decay and impact - National Scientific Fund, Ministry of education and science. Project coordinator: Chief assist. Rositsa Yaneva, PhD (2020-2022)