



Name	Katerina PODOROZHKO
Position, Department/Faculty	Assistant, Department of Geoinformation Technologies and Earth Space Monitoring, Faculty of Rocket and Space Engineering
Academic Degree, Academic Title	-
Email:	k.d.buriak@khai.edu
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ORCID iD:	0009-0000-9619-7650
Google Scholar:	https://scholar.google.com/citations?hl=uk&user=N6_mXosAAAAJ
ResearchGate:	-

EDUCATION:

Basic education (university, major, year of graduation):

National Aerospace University "Kharkiv Aviation Institute" - Department of geoinformation technologies and space monitoring of the Earth.

[2017-2021] Bachelor's Degree – first class honors. Qualification: Geodesy and Land Management

Postgraduate/Doctoral studies:

National Aerospace University "Kharkiv Aviation Institute"

[2021-2022] Master's Degree - with honors. Qualification: Geodesy and Land Management

[2023-2025] Doctoral studies (PhD) still in the process

WORK EXPERIENCE:

Professional Career (Workplace, Years, Position):

National Aerospace University "Kharkiv Aviation Institute"

Department of geoinformation technologies and space monitoring of the Earth:

[2024 - 2025] Department assistant

[2023-2025] Club leader: Remote sensing of the Earth. Junior Academy of Sciences

Teaching Experience:

[2023 – Present time] National Aerospace University "Kharkiv Aviation Institute"

RESEARCH ACTIVITIES:

Main Research Areas:

Cartography, cartographic design, GIS analysis, remote sensing (Earth observation), environmental and territorial monitoring, research on the dispersion of air pollutants in the atmosphere

Number of Publications (Scopus, WoS, others):

[over 25]



Monographs, Textbooks:

1. Danshyna, S. Spatial assessment of infrastructure projects [Text] / S. Danshyna, K. Podorozhko // Decision support systems in project and program management : collective monograph / edited by I. Linde. – European University Press. – Riga, ISMA, 2024. – pp. 41 – 52. DOI: <https://doi.org/10.30837/MMP.2024.041>.

Participation in Scientific Conferences:

2. Podorozhko, K. D. Analysis of the impact of a combination of factors on the condition of rivers as a result of the implementation of territorial development projects [Text] / K. D. Podorozhko // Information systems in project and program management: materials of the International scientific and practical conference (Koblevo, September 9-13, 2024) – Kharkiv: KNURE, 2024. – P. 189 – 193.
3. Danshina, S. Yu. Method of spatial analysis of riverbed deformation based on combined data [Text] / S. Yu. Danshina, K. D. Podorozhko // Restoration of ecosystems damaged by military operations: Ukrainian and European challenges: materials of the International Scientific and Practical Conference REDMO-2024, Kyiv, November 6, 2024. – Kyiv, 2024. – P. 20–25.
4. Podorozhko, K. D. Analysis of methods for studying anthropogenic pressure on rivers using information flow models [Text] / K. D. Podorozhko // Mathematical modeling and information and communication technologies for victory and recovery: materials of the XXIII International Scientific and Practical Conference, Kyiv, November 12-13, 2024. – Kyiv, 2024. – P. 141-143.
5. Use of agrobiomass in energy: spatial aspect of finding a location for a biofuel boiler room [Text] / S. Yu. Danshina, S. M. Andreyev, Yu. L. Buryak, K. D. Podorozhko // Waste management in Ukraine: legislation, economics, technologies: materials of the National Forum (Khmelnitskyi, November 28-29, 2024). – Kyiv: Center for Environmental Education and Information, 2024. – P. 150-154.
6. Podorozhko K. D. Analysis of the impact of a combination of factors on the condition of rivers as a result of the implementation of territorial development projects [Text]: report on research and development (final) // Development of information technologies for distributed environmental monitoring systems using remote sensing data: section of the report / National Aerospace University named after M.E. Zhukovsky "Kharkiv Aviation Institute"; scientific supervisor S.I. Gorelik. – DR 0122U002298. – Kharkiv, 2024.
7. Podorozhko K. D. Application of computer technologies for digital processing of geospatial data // Information and computer technologies: abstracts of the XV

International Scientific and Technical Conference, March 28–29, 2025, Zhytomyr.
– Zhytomyr, 2025. – P. 299.

8. Podorozhko K. D. Segmentation of objects using machine vision and open Earth observation data // Theoretical and Applied Cybersecurity (TACS-2025): materials of the III All-Ukrainian Scientific and Practical Conference. – 2025.

PROFESSIONAL ACHIEVEMENTS AND AWARDS:

Honorary Titles:

[None]

Distinctions, Awards, Prizes:

[None]

INTERNATIONAL ACTIVITIES:

Internships:

[None]

Cooperation with Foreign Universities:

[None]

Teaching/Lecturing Abroad:

[None]

SELECTED PUBLICATIONS:

Links to Citation Database Profiles:

https://scholar.google.com/citations?hl=uk&user=N6_mXosAAAAJ

ADDITIONAL INFORMATION:

Language Proficiency:

English Language Proficiency Level (B1)

Social and Community Activities:

theater director, volunteer