Name	Alina Krainychenko
Position, Department/Faculty	Associate Professor at the Department of Higher Mathematics and System Analysis, Faculty of Rocket and Space Engineering
Academic Degree, Academic Title	PhD in Applied Mathematics
Email:	a.krainychenko@khai.edu
Scopus Author ID:	
Web of Science ResearcherID:	
ORCID iD:	0009-0004-5881-4143
Google Scholar:	https://scholar.google.com/citations?user=C-Y5VpwAAAAJ&hl=uk&oi=ao
ResearchGate:	

EDUCATION:

Basic education (university, major, year of graduation):
In 2019 completed the full course of National Aerospace University "Kharkiv Aviation Institute". Obtained qualification: Master's Degree. Program Subject Area "System Analysis". Educational program "System Analysis and Management".

Postgraduate/Doctoral studies:
The specialized Scientific Council at the National Aerospace University "Kharkiv Aviation Institute" conferred the Doctor of Philosophy Degree. Field of Study "Mathematics and Statistics". Programme Subject Area "Applied Mathematics". Diploma No. N25 № 001900, issued on July 14, 2025.

Additional training, certification programs:
-

WORK EXPERIENCE:

Professional Career (Workplace, Years, Position):
Assistant of Department of Higher Mathematics and System Analysis, since 1 September 2021 to 31 August 2025.
Associate Professor of Department of Higher Mathematics and System Analysis, since 1 September 2025 to present.

Teaching Experience:
2021–present.

Experience in International or National Projects:
-

RESEARCH ACTIVITIES:

Main Research Areas:

NATIONAL AEROSPACE UNIVERSITY «KHARKIV AVIATION INSTITUTE»

Mechanics of deformable solids. Theory of elasticity for multi-connected transversely isotropic bodies.

Number of Publications (Scopus, WoS, others):
4

Monographs, Textbooks:
-

Participation in Scientific Conferences:
4

TEACHING ACTIVITIES:

Courses Taught:
Higher Mathematics — 2021–present.

Author Courses, Academic Programs:
-

Methodological Materials, Textbooks:
-

GRANTS AND PROJECTS:

Participation in International and National Projects:
text

Grants, Scholarships, Academic Mobility Programs:
text

PROFESSIONAL ACHIEVEMENTS AND AWARDS:

Honorary Titles:
-

Distinctions, Awards, Prizes:
-

Membership in Professional Associations:
Active member of the public organization "Ukrainian Scientific and Educational IT Society" since 28.06.2024. Certificate No. 24-00038 FS

INTERNATIONAL ACTIVITIES:

Internships:
-

Cooperation with Foreign Universities:

-

Teaching/Lecturing Abroad:

-

SELECTED PUBLICATIONS:

Key Articles (Scopus, WoS, others):

1. Ніколаєв О. Г., Крайніченко А. С. Пружний трансверсально-ізотропний простір з двома одновісними паралельними круговими тріщинами і супутні проблеми базисності // Вісник національного технічного університету «ХПІ». Серія: Математичне моделювання в техніці та технологіях. – 2022, № 1. – С. 22-35. DOI: 10.20998/2222-0631.2022.01.11

2. Nikolaev O. G., Krainichenko A. S. Some problems for transversal isotropic space with periodic anti-crack packages // Вісник національного технічного університету «ХПІ». Серія: Математичне моделювання в техніці та технологіях. – 2024, № 2(7). – С. 55-64. DOI: 10.20998/2222-0631.2024.02(7).06

3. Nikolaev, O. G., Krainichenko, A. S. Some problems for transversaly isotropic space with periodic crack systems // Проблеми обчислювальної механіки і міцності конструкцій. – 2024, вип. 38. C. 229 – 247. DOI: 10.15421/4224118

4. Nikolaev O. H., Krainychenko A. S. Justification of the Fourier method in boundary-value problems of the theory of elasticity for a symmetrically loaded transversally isotropic oblate spheroid and its application to a hollow spheroid. *Visnyk of the National Technical University "KhPI". Series: Mathematical Modeling in Engineering and Technologies*. 2025. No. 1 (8). DOI: https://doi.org/10.20998/2222-0631.2025.01(8).12

Books, Chapters in Collective Monographs:

-

Links to Citation Database Profiles:
https://scholar.google.com/citations?user=C-Y5VpwAAAAJ&hl=uk&oi=ao

ADDITIONAL INFORMATION:

Language Proficiency:
Ukrainian – native
English – pre-intermediate
Russian – fluent

IT Skills:
C++, C#, MATLAB

Social and Community Activities:
Participation in organizing the City Open Mathematical Quest-Competition "Space Math Magic: Stars of Kharkiv" 2024 for school students.