



Name	Oksana Luchsheva
Position, Department/Faculty	Senior lecturer, Department of Software Engineering / Faculty of Software Engineering and Business
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ResearchGate:	https://www.researchgate.net/profile/Oksana-Luchsheva

EDUCATION:

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

- University: National Aerospace University "N. E. Zhukovsky" 'Kharkiv Aviation Institute'
Year of Graduation: 2003

Degree: Specialist in Software for Automated Systems (with Honors)

- University: National Aerospace University "N. E. Zhukovsky" 'Kharkiv Aviation Institute'
Year of Graduation: 1995

Degree: Specialist in Automatic Control Systems

Qualification: Electromechanical Engineer

Additional training, certification programs:

- Professional Specialization "AI Essentials". Coursera, Google (August 2025), covering courses: Introduction to AI, Maximize Productivity With AI Tools, Discover the Art of Prompting, Use AI Responsibly, and Stay Ahead of the AI Curve.
- Professional Specialization "Google Prompting Essentials". Coursera, Google (August 2025), covering courses: Start Writing Prompts like a Pro, Design Prompts for Everyday Work Tasks, Speed Up Data Analysis and Presentation Building, and Use AI as a Creative or Expert Partner.
- Online Course "Specialized AI services for use in writing scientific articles". NGO Kharkiv IT Cluster (August 2025).
- Online Course "Educators Track: Digital Mastery Lecture Series". Genesis (August 2025), covering topics: EdTech tools and modern approaches, AI in education, project management, digital security, effective presentations, digital planning, and effective communication.
- Online Course "Modern approaches to the organization and automation of scientific activity with AI". NGO Kharkiv IT Cluster (August 2025).
- Online Course "The Big Course on AI in Education". Ministry of Digital Transformation of Ukraine & NGO "Progresylni" (June 2025).
- Online Course "Interdisciplinarity in Teaching: A Master Class". Ministry of Digital Transformation of

Ukraine & NGO "Progresylni" (March 2025).

- Online Course "Teachers' Smart Up: Winter Edition 2025". Sigma Software University (February 2025).
- Online Course "Python: Data Structures". Prometheus (November 2024).
- Online Course "Emotional Health of Educators: Psychological Resilience and Self-Care". Ministry of Digital Transformation of Ukraine & NGO "Progresylni" (November 2024).
- Online Course "Innovative Teaching: From Design Thinking to Artificial Intelligence". Ministry of Digital Transformation of Ukraine & NGO "Progresylni" (November 2024).
- Online Course "Learn to Program: The Fundamentals". Coursera, University of Toronto (August 2024).
- Online Course "Teachers' Smart Up: Summer Edition". Sigma Software University (July 2024).
- Online Course "Work Smarter with Microsoft Excel". Coursera, Microsoft (June 2024).
- Online Course "Progressive Teaching: An Intensive from the Islanders". Ministry of Digital Transformation of Ukraine & NGO "Progresylni" (April 2024).
- Online Course "Programming for Everybody (Getting Started with Python)". Coursera, University of Michigan (January 2024).
- Online Course "Learning Statistics with Python". Codefinity (January 2024).
- Online Course "IT Tools for Teachers". GlobalLogic Education (July 2023).
- Online Internship "Creation and Development of IT Products". Genesis IT Company (June 2023).
- Online Course "Python Programming for Big Data and Data Science". Kharkiv University of Technology "STEP" (May 2023).
- Workshop "Effective Tools and Processing of Natural Language and Computer Linguistics of the Ukrainian Language". Friedrich Schiller University Jena, Germany (December 2022).

WORK EXPERIENCE:

Professional Career (Workplace, Years, Position):

- Senior Lecturer, Software Engineering Department, National Aerospace University "Kharkiv Aviation Institute" (2009 – present)]
- Assistant Lecturer, Software Engineering Department, National Aerospace University "Kharkiv Aviation Institute" (2001 – 2009)
- Informatics Teacher (Concurrent), Aerospace Lyceum (KhAI) (2005 – 2015)]
- Engineer, Department of Occupational Safety, National Aerospace University "Kharkiv Aviation Institute" (1996 – 1998)]

Teaching Experience:

- Incorporated advanced digital platforms (e.g., Moodle, Zoom, Google Meet) and interactive teaching methods across four academic courses to enhance student engagement and support hybrid learning environments.
- Designed curricula and syllabi for Software Engineering courses, ensuring alignment with national academic standards and student requirements.
- Delivered lectures and practical workshops to diverse student groups, fostering active participation and effective classroom management.
- Assessed student progress through exams, projects, and presentations, delivering constructive feedback to promote academic and professional development.

RESEARCH ACTIVITIES:

Main Research Areas:

- Empirical Software Engineering and Data Analysis: Utilizing statistical techniques to evaluate software quality and optimize performance in Software Development Processes (SDPs).
- Software Requirements Engineering and Quality: Analyzing and modeling requirements, integrating UI/UX principles to enhance system reliability and user experience.
- Programming Education and Applied Informatics: Developing educational frameworks for teaching core programming (C++, C#) and Python-based statistical analysis applications.

Number of Publications (Scopus, WoS, others):

Scopus: 2 articles, WoS: 2 articles. Total Publications: 10.

Participation in Scientific Conferences:

Participated in over 30 scientific conferences, presenting research at more than 5 international events.

TEACHING ACTIVITIES:

Author Courses, Academic Programs, Courses Taught:

- Statistics and Python Programming
(Bachelor's, interdisciplinary course emphasizing data analysis techniques).
- Computing and Programming Fundamentals
(Bachelor's, tailored course for Computational Linguistics and Humanities students).
- Introduction to Computer Science and Technology
(Bachelor's, general education course for Humanities students).
- Probability and Empirical Methods in Software Engineering
(Bachelor's, core course for Software Engineering programs).

Methodological Materials, Textbooks:

- Textbook Authorship: Served as author and co-author for two specialized textbooks in the Software Engineering field.
- Digital Content Development: Designed and produced electronic learning resources and video tutorials for hybrid and fully online teaching, hosted on Learning Management Systems (LMS), including Moodle and Google Classroom.
- Manuals: Developed 10+ comprehensive methodological manuals and laboratory workbooks for core engineering and statistics disciplines.

GRANTS AND PROJECTS:

Participation in International and National Projects:

- "Software development technologies for Internet of Things and cloud services ecosystem platforms", National Aerospace University named after M.E. Zhukovsky "Kharkiv Aviation Institute", State registration number: 0224U001872, 01.01.2021 – 31.12.2023
- "Intellectualization of Internet of Things software", National Aerospace University named after M.E. Zhukovsky "Kharkiv Aviation Institute", State registration number: 0221U100711, 01.01.2018 - 31.12.2020

PROFESSIONAL ACHIEVEMENTS AND AWARDS:

Honorary Titles:

Acknowledgment from the Kharkiv City Mayor Kharkiv City Council (2024)

Membership in Professional Associations:

Member of the Non-Governmental Organization "Progresylni" (2023 – Present)

SELECTED PUBLICATIONS:**Key Articles (Scopus, WoS, others):**

- Shevchenko I.V., Luchsheva O.V. Incremental Approach to Planning Students' Work on a Joint Software Project // Open Information and Computer Integrated Technologies, No. 100, 2024. – P. 119–130. <https://doi.org/10.32620/oikit.2024.100.1>
- Oksana Luchsheva, Ihor Turkin, and Pavlo Luchshev, "Navigation Assistive Application for the Visually Impaired People", in Proceedings of 2020 IEEE The 11th IEEE International Conference on Dependable Systems, Services and Technologies, DESSERT'2020, 14-18 May, 2020, Kyiv, Ukraine, pp.320-325, ISBN 978-1-7281-9957-3/20/\$31.00 ©2020 IEEE [10.1109/DESSERT50317.2020.9125013](https://doi.org/10.1109/DESSERT50317.2020.9125013)
- Luchsheva Oksana, Turkin Ihor, Klymenko Ihor and Narozhnyy Vitaliy, "Smartphone for Smart Physics Learning", in Proceedings of 2020 IEEE International Scientific and Technical Conference, Integrated computer technologies in mechanical engineering – synergetic engineering, Software engineering and IT, Data and Knowledge Engineering (ICTM-2020), 29-30 October, 2020, Kharkiv, Ukraine, pp. 135-146, <https://doi.org/10.1007/978-3-030-66717-7>
- Oksana Luchsheva, Ihor Turkin, Yuliia Kuznetsova, and Pavlo Luchshev, "Navigation Support Method Taking into Account Urban Canyon Limitations for Visually Impaired People", in Proceedings of 2019 IEEE International Scientific-Practical Conference Problems of Infocommunications, Science and Technology (PIC S&T), 8-11 October, 2019, Kyiv, Ukraine, pp. 552-556, <https://doi.org/10.1109/PICST47496.2019.9061535>

Links to Citation Database Profiles:

<https://www.webofscience.com/wos/author/record/AAJ-6499-2021>
<https://www.scopus.com/authid/detail.uri?authorId=57216484591>
<https://scholar.google.com/citations?user=7vi5x9YAAAAJ>
<https://www.researchgate.net/profile/Oksana-Luchsheva>
<https://orcid.org/0000-0003-3855-2815>


ADDITIONAL INFORMATION:**Language Proficiency:**

Ukrainian, English

IT Skills:

- Basic: OS: Windows; Office Suite: Microsoft Office (Advanced, including VBA for automation)
- Programming Languages: Python, C++, C#, Pascal
- Software Engineering: SDLC, Design Patterns, UML, BPMN
- Development Tools & Environments:
IDE & Environments: PyCharm, Visual Studio, VS Code, Google Colab



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- In the top left corner, there are decorative geometric shapes consisting of a dark blue rectangle and a light blue triangle pointing towards the right.
- Libraries & Frameworks: .NET, Pandas, NumPy, Scikit-learn
 - Educational Technology & Methodological Skills:
 - LMS: Moodle, Google Classroom
 - Curriculum Development & Project-Based Learning