



Name	Yevheniia Sokolova
Position,	Associate Professor, Department Software
Department/Faculty	Engineering
Academic Degree,	PhD of Information Techologies
Academic Title	Associate Professor
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ResearchGate:	https://www.researchgate.net/profile/Yevhenii a-Sokolova?ev=hdr_xprf
SciProfiles:	2915362

EDUCATION:

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

Master's Degree in Software Engineering, Specialization: Software for Computer Systems and Automated Control

Kharkiv Aviation Institute [1/09/1986-28/02/1992

Postgraduate/Doctoral studies:

Associate professor

Ministry of Education and Science of Ukraine [25/02/16]

PhD in Information Technologies

Ministry of Education and Science of Ukraine [22/04/2011]

Additional training, certification programs:

Wildau-Kharkiv IT Bridge IV, DAAD Programme "Digital Ukraine: Ensuring Academic Success in Times of Crisis" – VR & AR in Education (Professional Development Course for Educators), 3 ECTS, Summer Semester 2025

Academic English B1: Reading, Listening, Writing and Speaking, 75 hours, Mariupol University, Mar 2025

Practical English, 90 hours, Mariupol University, Feb 2025

EPAM – Teacher's Internship, 60 hours, Feb 2025

Teaching in Times of War, 30 hours, National University of "Kyiv-Mohyla Academy", Jan 2025

IT Ukraine Association – Teacher's Internship, 180 hours, July 2024







NAQA – Training for Experts on Writing Accreditation Examination Reports, 90 hours, May 2024

Data Structure & Algorithm using C++: Zero To Mastery, 64.5 hours, Feb 2024

SSWU – TEACHERS' SMARTUP: Winter Edition 3.0, 30 hours (1 ECTS), Jan 2024

Artificial Intelligence and the Future of Education, 30 hours (1 ECTS), Nov 2023

Data Structures & Algorithms Essentials using C++, 27.5 hours, May 2023

SSWU – TEACHERS' SMARTUP: Winter Productivity, 30 hours (1 ECTS), Jan 2023

WORK EXPERIENCE:

Professional Career (Workplace, Years, Position):

Associate Professor, Department of Software Engineering, National Aerospace University [2011 – present] research activity, teaching: Basic Programming, C# Programming, Algorithms and Data Structures

Expert, National Agency for Quality Assurance in Higher Education [2019-Current] member of the expert group conducting accreditation examinations in the specialty 121 "Software Engineering"

Senior Lecturer, Department of Software Engineering, *National Aerospace University* [2001-2011] research activity, teaching: Basic Programming, C# Programming

Assistant, **Department of Software Engineering**, *National Aerospace University* [1998-2001] teaching Assistant, Basic Programming, Algorithms and Data Structures Courses

Software Engineer, *State Enterprise Research and Design Institute «Souz»* [1993-1998] Software Development

Software Engineer, Join-Stock Company «HARTRON» [1992-1993] Software Development

Experience in International or National Projects:

Wildau-Kharkiv IT Bridge, DAAD Programme "Digital Ukraine: Ensuring Academic Success in Times of Crisis" [2022 – present]

RESEARCH ACTIVITIES:

Main Research Areas:

metaprogramming, software verification & validation, software quality, software optimization

Number of Publications (Scopus, WoS, others):

Over 30 scientific publications, including indexed articles in Scopus and Web of Science databases; multiple conference proceedings and applied research outputs.

Monographs, Textbooks:

Co-author of 1 monograph in the fields of Software Tools for Automated Testing of Complex Technical Systems.







Participation in Scientific Conferences:

Regular participant (more 50) and speaker at international and national scientific conferences on marketing, education strategy, digital transformation, and sustainable university development (Ukraine, Poland, England, Germany, online forums).

TEACHING ACTIVITIES:

Courses Taught:

Basic Programming, C# Programming, Algorithms and Data Structures

Author Courses, Academic Programs:

Author of the course "C# Programming", "Algorithms and Data Structures", Developer of academic content for "Basic Programming", "C# Programming", "Algorithms and Data Structures"

Methodological Materials, Textbooks:

Co-author of textbooks in the field of programming Developed electronic resources and video materials for hybrid and online teaching (LMS: Moodle, Google Classroom)

GRANTS AND PROJECTS:

Participation in International and National Projects:

Wildau-Kharkiv IT Bridge, DAAD Programme "Digital Ukraine: Ensuring Academic Success in Times of Crisis" [2022 – present]

PROFESSIONAL ACHIEVEMENTS AND AWARDS:

Honorary Titles:

Honorary Certificate from the National Aerospace University National Aerospace University – Kharkiv Aviation Institute [2024]

Acknowledgment from the Kharkiv City Mayor

Kharkiv City Council [2020]

Membership in Professional Associations:

Kharkiv IT-Cluster [2021- present]

SELECTED PUBLICATIONS:

Key Articles (Scopus, WoS, others):

Manzhos, Y., Sokolova, Y. THE METHOD OF DATA COMPRESSION IN INTERNET OF THINGS COMMUNICATION | МЕТОД СТИСНЕННЯ ДАНИХ У МЕРЕЖІ ІНТЕРНЕТ РЕЧЕЙ, Radioelectronic and Computer Systems, 2020, (4), pp. 57–67

Yuriy S. Manzhos, Yevheniia V. Sokolova A Method of IoT Information Compression // International Journal of Computing 21 (1), 100-110.







Manzhos, Y.; Sokolova, Y. A Software Verification Method for the Internet of Things and Cyber-Physical Systems. Computation 2023, 11, 135. https://doi.org/10.3390/computation11070135

Manzhos, Y., & Sokolova, Y. (2024). A type system for formal verification of cyber-physical systems C/C++ software. Radioelectronic and Computer Systems, 2024(1), 127-142. doi:https://doi.org/10.32620/reks.2024.1.11

Manzhos, Y., Sokolova, Y. The Software Development Lifecycle of Cyber-Physical Systems. BICHИК XHTУ No 1, 2024, 237-245 DOI https://doi.org/10.35546/kntu2078-4481.2024.1.33

Kirilenko, O., Ryzhkova, V., Rybalko, L., Zahrebelnyi, O., & Sokolova, Y. (2024). The use of the SmartCat platform for the development of soft skills in masters of philology. Amazonia Investiga, 13(76), 247-257. https://doi.org/10.34069/AI/2024.76.04.20

Books, Chapters in Collective Monographs:

Turkin I. B., Lushchev P. A., Sokolova E. V. Programmnye sredstva dlya avtomatizatsii ispytaniy slozhnykh tekhnicheskikh kompleksov [Monograph]. Kharkiv: National Aerospace University, 2012. 212 p.

ADDITIONAL INFORMATION:

Language Proficiency:

Ukrainian — Native, English — [Intermediate]

Driving Licence: Category B

Personal Qualities: Responsible, self-motivated, open-minded

IT Skills:

Productivity Tools: Microsoft Office (Word, Excel, PowerPoint), Google Drive

Development Tools: Microsoft Visual Studio

Educational Platforms: Google Classroom, Moodle

Communication & Collaboration: Zoom, Google Meet, Social Media

Social and Community Activities:

Charity during the full-scale invasion of russia



