



Curriculum Vitae

O. Vasheka



Olena Vasheka

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Account (profile) in academic databases
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Sex female | Date of birth 04.10.1975 | Citizenship Ukraine

Scientific degrees (specialization)	PhD degree in Plant Physiology
Academic rank	Docent
Position	Associate Professor
Department	Plant Biology
Faculty/Institute	Educational and Scientific Center "Institute of Biology and Medicine" of Taras Shevchenko National University of Kyiv
Part-time position	

EDUCATIONAL DISCIPLINES IN WHICH WAS INVOLVED:

Current year	1. Botany, laboratory classes, Bachelor's degree, EP Biology. 2. Latin language and Botanical terminology, workshops, Bachelor's degree, EP Landscape planning and landscaping. 3. Floriculture, lectures and laboratory classes, Bachelor's degree, EP Landscape design and landscaping. 4. Dendrology, lectures and laboratory classes, Bachelor's degree, EP Landscape design and landscaping. 5. Modern Strategy for Urban Greening, lectures and workshops, Master's degree, EP Landscape planning of urban environment. 6. Urban Ecology and Phytomelioration, lectures and laboratory classes, Bachelor's degree, EP Landscape design and landscaping. 7. Summer field workshop in botany, Bachelor's degree, EP Biology. 8. Paleobotany, lectures and laboratory classes, Master's degree, EP Biology. 9. Botany, lectures and laboratory classes, Bachelor's degree, EP Natural Sciences. Integrated program.
Previous Years	1. Applied Botany, lectures and laboratory classes, Specialist degree, EP Biology. 2. Basics of Scientific Research, workshops, Master's degree, EP Biology. 3. Basics of Plant Taxonomy, lectures and laboratory classes, Bachelor's degree, EP Biology. 4. Botany, laboratory classes, Bachelor's degree, EP Biology. 5. Botany, lectures and laboratory classes, Bachelor's degree, EP Natural Sciences. Integrated program. 6. Dendrology, lectures and laboratory classes, Bachelor's degree, EP Landscape

	design and landscaping. 7. Evolutionary Morphology and Anatomy of Angiosperms, lectures and laboratory classes, Bachelor's degree, EP Biology. 8. Floriculture, lectures and laboratory classes, Bachelor's degree, EP Landscape design and landscaping. 9. Latin language and Botanical terminology, workshops, Bachelor's degree, EP Landscape design and landscaping. 10. Laboratory Workshop on Plant Biology, laboratory classes, Bachelor's degree, EP Biology. 11. Medical biology, workshops, Bachelor's degree, EP Medicine. 12. Medicinal plants and Fungi, lectures and laboratory classes, Master's degree, EP Biology. 13. Methods of Teaching Biology in School, workshops, Specialist degree, EP Biology. 14. Monocotyledons, lectures and laboratory classes, Bachelor's degree, EP Biology. 15. Ornamental Dendrology, laboratory classes, Bachelor's degree, EP Landscape design and landscaping. 16. Ornamental Herbaceous Plants, lectures and laboratory classes, Bachelor's degree, EP Landscape design and landscaping. 17. Paleobotany, lectures and laboratory classes, Master's degree, EP Biology. 18. Plant Resource Science, lectures and laboratory classes, Bachelor's degree, EP Ecology. 19. Phytogeography with Basics of Ethnobotany, lectures and laboratory classes, Master's degree, EP Biology. 20. Strategy for Urban Greening, lectures and workshops, Master's degree, EP Landscape design of urban environment. 21. Systematics of Angiosperms, lectures and laboratory classes, Bachelor's degree, EP Biology. 22. Systematics of Vascular Plants, lectures and laboratory classes, Bachelor's degree, EP Biology. 23. Summer field workshop in botany, Bachelor's degree, EP Biology. 24. Urban Ecology and Phytomelioration, lectures and laboratory classes, Bachelor's degree, EP Landscape design and landscaping.
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EXPERIENCE IN SCIENTIFIC AND SCIENTIFIC-EDUCATIONAL WORK:

Period (starting from last)	Description
Science 2020	Associate Professor Taras Shevchenko National University of Kyiv; 64/13, Volodymyrska Street, City of Kyiv, Ukraine, 01601; http://www.knu.ua/ Area of activity: Education / Science
From 2011 to 2020	Assistant Professor Taras Shevchenko National University of Kyiv; 64/13, Volodymyrska Street, City of Kyiv, Ukraine, 01601; http://www.knu.ua/ Area of activity: Education / Science
From 2002 to 2011	Senior Researcher, O.V. Fomin Botanical Garden Taras Shevchenko National University of Kyiv; 64/13, Volodymyrska Street, City of Kyiv, Ukraine, 01601; http://www.knu.ua/ Area of activity: Science
From 2001 to 2002	Researcher, O.V. Fomin Botanical Garden Taras Shevchenko National University of Kyiv; 64/13, Volodymyrska Street, City of Kyiv, Ukraine, 01601; http://www.knu.ua/

	Area of activity: Science
From 2000 to 2001	Junior Researcher, O.V. Fomin Botanical Gardens Taras Shevchenko National University of Kyiv; 64/13, Volodymyrska Street, City of Kyiv, Ukraine, 01601; http://www.knu.ua/
	Area of activity: Science
From 1995 to 1997	Master stuff, sector of introduction of herbaceous plants, O.V. Fomin Botanical Garden Taras Shevchenko National University of Kyiv; 64/13, Volodymyrska Street, City of Kyiv, Ukraine, 01601; http://www.knu.ua/
	Area of activity: Science

EDUCATION AND TRAINING:

Period (starting from last)	Description
June 1, 2022 - June 30, 2025	Leibniz University Hannover Leibniz Information Center for Science and Technology in Germany Open Educational Resources with Ukraine, № OER-019UA, 6 ECTS
May 26 - June 6, 2025	Ministry of Digital Transformation of Ukraine, Ministry of Education and Science of Ukraine, NGO Progresylny Big Course on AI in Education, BKШIO-0537, 1,5 ECTS
2024	Ministry of Education and Science of Ukraine, Taras Shevchenko National University of Kyiv Obtained academic title of docent, АД №015480, 24.06.2024
January 10 – February 10, 2024	The State Scientific Institution "Institute of Education Content Modernization" (Ukraine) Professional development for learners (educators) in a blended learning format "School of Educational Content Experts", Certificate №QOPXUDA17L09, 1 ECTS.
22 січня - 29 березня 2024 р.	M.G. Kholodny Institute of Botany of the NAS of Ukraine, Department of Phytohormonology Mastering modern methods of studying the influence of various compounds (including pollutants of various origins) on the growth and development of sporophytes and gametophytes of ferns (case of sporophytes of the aquatic fern <i>Salvinia minima</i>) to create test systems (60 a.h. / 2 ECTS)
October 1 - October 31, 2023	Gottfried Wilhelm Leibniz Universität Hannover, Germany DAAD Project Eastern Partnership 2023 "Various approaches of phytoremediation of contaminated soils and water bodies by ferns and higher plants"
May 10 – May 31, 2023	Taras Shevchenko National University of Kyiv Psychological-pedagogical support of psychological competence for higher education specialists (30 a.h./ 1 ECTS) Certificate №KU02070944/000793-23
2023	Taras Shevchenko National University of Kyiv Advanced training and development of pedagogical competencies of lecturers KNU TEACH WEEK 4, January 2023
October 1 – December 23, 2022	Gottfried Wilhelm Leibniz Universität Hannover, Germany DAAD Ukraine digital: Ensuring academic success in times of crisis (2022)
March 16 – May 15, 2022	Sapienza University of Rome, Italy Mastering of methods for using database TRY (global database of curated plant traits) and data analysis of morphological and anatomical traits of alien plant species.
2022	Taras Shevchenko National University of Kyiv Advanced training and development of pedagogical competencies of lecturers KNU TEACH WEEK 3 (0.5 ECTS), January 2021
2021	Taras Shevchenko National University of Kyiv Advanced training and development of pedagogical competencies of lecturers KNU TEACH WEEK (1 ECTS), January 2021
February 17 – March 8, 2020	Sapienza University of Rome, Italy Mastering methods for the research of archaeophyte plant species (<i>Platanus orientalis</i> L.) in selected historical villas, parks, and botanical gardens in the Lazio region.
February 1 – March 8, 2019	Sapienza University of Rome, Italy

	Mastering of methods for investigation IAS (invasive alien species) in the field (in selected areas in the city of Rome) and ex situ (in the Botanical Garden). Attendance to lection of Prof. Loretta Gratani titled "Plant ecology" for students of the Department of Environmental Biology of Sapienza University.
October 15 – November 15, 2018	M.G. Kholodny Institute of Botany of the NAS of Ukraine, Department of Phytohormonology Mastering of modern methods of ferns gametophyte culture.
October 8 – November 11, 2017	Sapienza University of Rome, Italy Mastering of methods of the estimation of photosynthetic capacity and morpho-structural characteristics of <i>Wollemia nobilis</i> from the Botanical Garden of Rome. Attendance to lection of Prof. Loretta Gratani titled "Environmental monitoring of natural and anthropized systems" for students of the Department of Environmental Biology of Sapienza University
September 13 – October 13, 2016	Sapienza University of Rome, Italy Mastering of methods of the estimation of carbon sequestration capacity of vegetation inside the Botanical Garden of Rome. In particular, in order to analyzed the effect of vegetation in air quality amelioration in urban area Attendance to workshops of Botany for students at the Department of Environmental Biology of Sapienza University.
1997 - 2000	Taras Shevchenko National University of Kyiv , PhD student Obtained qualification PhD degree in biological sciences, ДК №011725, (PhD thesis «Physiological features of introduced ferns of Dryopteridaceae Ching family with different rhythms of seasonal development»
1992 - 1997	Taras Shevchenko National University of Kyiv , student Obtained qualification Biologist – Ecologist and Physiologist of Plants, Lecturer of Biology, AKI №97008293

PERSONAL SKILLS

Name	Level (description)
Native language	Ukrainian
Foreign language 1	English, (B2/C1), Certificate №4882 "English for professional purposes". Taras Shevchenko National University of Kyiv. Language Center (19.12.2023)
Foreign language 2	Italian (fluent speaker)
Communicative competence	Communication skills obtained while working as a lecturer at Taras Shevchenko National University of Kyiv, at scientific conferences and seminars, and during qualifying internships
Organizational /management competence	Guidance of educational and professional practices at ESC «Institute of biology and medicine», guidance of students' scientific coursework, and thesis. Approximately 30 students were trained to defend their undergraduate and graduate-level thesis. During 2002-2011, acted as secretary of the Academic Council of the O.V. Fomin Botanical Garden, including meetings and preparation of all necessary documentation.
Computer skills	Standard set of PC user (MS Word, Excel, Access, PowerPoint, Adobe Photoshop, and other software - for scientific and educational publications, illustrations, presentations, photo editing, and communication).
Professional skills (not mentioned above)	Microscope Software, AxioVision LE, Adobe InDesign CC, Microsoft Publisher, software for statistical analysis (Past, R-statistics).
Fields of professional interests	Pteridology, physiology of ferns, ecological plasticity and mechanisms of ecological adaptation of plants; horticulture of ferns, ex situ ferns conservation.

ADDITIONAL INFORMATION

Item	Titles of publications, projects, conferences, awards and prizes, memberships in academies and societies, etc
Textbooks / studentbooks / Manuals	Author of 146 publications. Author of 18 books and manuals for students and nine educational videos. Selected Works: Vasheka O.V., Badanina V.A. Selected chapter of dendrology. Textbook. – Kyiv: Palyvoda A.V., 2024. - 140 p. ISBN 978-966-437-792-5 [in Ukrainian]. Course Botany (5 episodes). Projekt 'Open Education Resources with Ukraine', Taras

	Shevchenko National University of Kyiv, https://doi.org/10.5446/s_1940 Vasheka O., Papenbrock J. Lycophytes (Lycopodiopsida). Plant Taxonomy, Taras Shevchenko National University of Kyiv. Projekt 'Open Education Resources with Ukraine', 2024. https://doi.org/10.5446/68596 Vasheka O., Papenbrock J. Ferns (Monilophytes). Plant Taxonomy, Taras Shevchenko National University of Kyiv et al., 2023. https://doi.org/10.5446/63215 Vasheka O.V., Shevchik V.L. It is easy to identify - ferns!: Guidelines. - Kyiv: Palyvoda A.B., 2021. 48 p. ISBN 978-966-437-601-0 [in Ukrainian] Workbook of Medical Biology: Practical course / V.M. Trokhymets, O.K. Voronina, K.S. Afanasieva, M.V. Inomistova, V.Ye. Kalynovskiy, I.A. Koseretska, N.A. Matushkina, S.V. Melnychuk, V.R. Petlovana, O.V. Protsenko, S.R. Rushkovsky, I.M. Vareniuk, O.V. Vasheka. – Kyiv: SPC «Kyiv University», 2019. – 135 p. Martinyuk V.O., Shevchik V.L., Vasheka O.V. It is easy to identify - carnation family! : Guidelines. - Kyiv: Palyvoda A.B., 2019. 29 c. [in Ukrainian] Badanina V.A., Futorna O.A., Vasheka O.V., Loban L.O. Evolutionary morphology of Magnoliophyta. Lecture notes: textbook. Manual for students of higher education institutions. - Kyiv: Palivoda, 2018. - 102 p. [in Ukrainian]
Publications	Selected Works: Vasheka O., Kryshenyk V., Palagecha R., Dzurenko N. Leaf phenotypic plasticity of four Eleutherococcus species growing in the urban environment. <i>Studia Biologica</i>. 2025, 19 (2). -P. 121–132. Gratani L., Vasheka O., & Bigaran F. (2021). Metal accumulation capability by <i>Platanus acerifolia</i> (Aiton) Willd., <i>Ailantus altissima</i> (Mill.) Swingle, <i>Robinia pseudoacacia</i> L. and <i>Quercus ilex</i> L., largely distributed in the city of Rome. <i>American Journal of Plant Sciences</i>, 2, 163-185. https://doi.org/10.4236/ajps.2021.121010 DOI: 10.4236/ajps.2021.121010 Vasheka O., Gratani L., & Puglielli G. (2019). Leaf physiological and structural plasticity of two <i>Asplenium</i> (Aspleniaceae) species coexisting in sun and shade conditions // <i>Plant Ecology and Evolution</i> 152 (3): 426–436. https://doi.org/10.5091/plecevo.2019.1525 Vasheka O., Spoletini A., Catoni R., Pepe M., & Gratani L. (2019). Age-related changes in anatomical and morphological leaf traits of <i>Wollemia nobilis</i> // <i>Modern Phytomorphology</i>. . 13: 47–53. https://doi.org/10.5281/zenodo.190110 Vasheka O., Puglielli G., Crescente M.F., Varone L., & Gratani L. (2016). Anatomical and morphological leaf traits of three evergreen ferns (<i>Polystichum setiferum</i>, <i>Polypodium interjectum</i> and <i>Asplenium scolopendrium</i>) // <i>American Fern Journal</i>. – Vol. 106, 4. - P. 258–268. Romanenko K O., Babenko L.M., Vasheka O.V., Romanenko P., & Kosakivska I.V. In vitro phytohormonal regulation of fern gametophytes growth and development // <i>Russian Journal of Developmental Biology</i>, 2020, Vol. 51, No. 2, pp. 71–83. 2020, published in <i>Ontogenez</i>, 2020, Vol. 51, No. 2, pp. 81–95. Gratani L., Vasheka O., & Bigaran F. Phenotypic plasticity of <i>Platanus acerifolia</i> (Platanaceae): morphological and anatomical trait variations in response to different pollution levels in Rome // <i>Modern Phytomorphology</i>. 2020. 14: 55–63. DOI: 10.5281/zenodo.200112 Romanenko K.O., Kosakivska I.V., Babenko L.M., Vasheka O.V., Romanenko P.O., Negretsky V.A., & Minarchenko V. M. Effects of exogenous cytokinins on spore germination and gametophyte morphogenesis of <i>Dryopteris filix-mas</i> (L.) Schott in vitro culture // <i>Cytology and Genetics</i>, 2019, Vol. 53, No. 3, pp. 192–201. https://doi.org/10.3103/S0095452719030034 Babenko, L., Vasheka, O., Shcherbatiuk, M.M., Romanenko, P., Voytenko, L.V., & Kosakivska, I.V. (2019). Biometric characteristics and surface microstructure of vegetative and reproductive organs of heterosporous water fern <i>Salvinia natans</i>.

	Flora. 252, 44–50. https://doi.org/10.1016/j.flora.2019.02.006 Babenko L.M., Romanenko K.O., Shcherbatiuk M.M., Vasheka O.V., Romanenko P.O., Negretsky V.A., & Kosakivska I.V. (2018). Effects of exogenous phytohormones on spore germination and morphogenesis of <i>Polystichum aculeatum</i> (L.) Roth gametophyte in vitro culture // Cytology and genetics. – Vol. 52, 2. –P. 39-50. Romanenko K., Babenko L., Shcherbatiuk M., Negretsky V., Kosakivska I., Vasheka O., & Romanenko P. (2017). Effects of gibberellic acid and benzylaminopurine on morphogenesis of <i>Polystichum aculeatum</i> L. // Studia Biologica. . Tom 11, №3–4. – C. 39-40. Vasheka O.V. & Bezsmertna O.O. Ferns Atlas of Ukrainian flora: monograph. K. : PALIVODA AV, 2012. - 160 p. [in Ukrainian]
Conferences	Selected Conferences: Scientific and practical conference "Botanical readings named after Franz Delyavin", V.N. Karazin Kharkiv National University, Kharkiv, Ukraine, September 22–24, 2025 XV Congress of the Ukrainian Botanical Society (Ivano-Frankivsk, Ukraine, September 30 - October 4, 2024). Conference of the Ukrainian Plant Industry Association "Green Cities" (Kyiv, Ukraine, 6.12.2019); 7th Environmental Physiology of Ectotherms and Plants. Tartu, Estonia (31.07-04.08 2017); Floriculture: history, theory, practice: VII Int. scientific. conf. (May 24-26, 2016, Minsk, Belarus) II International Plant Science Conference (IPSC) "Not only food: Sustainable development, agro-biodiversity conservation & human wellbeing". Pavia (Italy) (14-16 September 2015) 5th Symposium on Asian Pteridology and Garden Show, 15-21 November 2010 Shenzhen Fairy Lake Botanical Garden, CAS (China)
Participation in organizations	Member of the American Fern Society Member of the Ukrainian Botanical Society
Citations	h-5