

CURRICULUM VITAE

Yaryna Oleksandriivna Butenko

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Education*

National University of Life and Environmental Sciences of Ukraine, Ecology and Environmental Protection, qualified ecologist, teacher of a higher educational institution, 25.12.2009.

Degree*

Candidate of Agricultural Sciences, majoring in «Agricultural Land Reclamation», 29.06.2021. Kyiv, Institute of Water Problems and Land Reclamation

Professional work experience* (for the last 10 years)

11.2021 - present Senior researcher of the Department of Information Technologies and Innovation Marketing of the Institute of Water Problems and Land Reclamation of the National Academy of Agrarian Sciences of Ukraine

10.2019 - 10.2021 Researcher of the Department of Information Technologies and Innovation Marketing of the Institute of Water Problems and Reclamation of the National Academy of Agrarian Sciences of Ukraine

02.2019 - 09.2019 Researcher of the Department of Sustainable Use and Development of Reclaimed Areas of the Institute of Water Problems and Land Reclamation of the National Academy of Agrarian Sciences of Ukraine

01.2014 - 01.2019 Researcher of the Department of Irrigated Land Use of the Institute of Water Problems and Land Reclamation of the National Academy of Agrarian Sciences of Ukraine

Main research activity

Participation in collective research projects

(no more than 5 positions in the last 10 years)

45.00.02.05 P. To develop methods and tools for supporting decision-making in agricultural production on irrigated lands based on ground and remote monitoring data (2016-2018) (performer)

45.00.01.03 F. To establish regularities of energy-mass exchange processes in the "soil-plant-atmosphere" system, to develop scientific and methodological bases for planning irrigation in modern conditions of agricultural production (2016-2020) (performer)

05.02.02.19. To develop a complex of information systems and consulting services for planning sustainable water and land use in reclamation areas (2018-2020) (performer)

04.03.00.24 P. To develop intelligent decision-making systems using telecommunication technologies for managing irrigated agriculture (2021-2023) (performer)

Project of the World Bank, IWP&LR and MGO Primavera "Assessment of damages and needs caused by the military aggression of the Russian Federation to reclamation infrastructure at the local level, at the level of territorial communities, small, medium and large agricultural enterprises, organizations of water users in the area of irrigation and drainage systems (RDNA), expert project from IWP&LR. 2023 (performer)

Main scientific achievements

Published scientific works*

(no more than 10 positions in the last 10 years)

Hoffmann, M., Butenko, Y. and Traore, S. Evaluation of Satellite Imagery to Increase Crop Yield in Irrigated Agriculture // AGRIS on-line Papers in Economics and Informatics, 2018, Vol. 10, No. 3. P. 45-55. ISSN 1804-1930. DOI 10.7160/aol.2018.100304. (Scopus).

Zhovtonog O.I., Filipenko L.A., Demenkova T.F., Polishchuk V.V., Butenko Y.O. Taking into account climate changes and the intensity of droughts when planning irrigation in the Southern Steppe zone of Ukraine // Reclamation and water management: Mezhd. subject of science coll. - Issue 1 (107). - K.: Edelweiss Publishing House, 2018. - P. 37-46. 9

Matyash T.V., Kovalchuk V.P., Knysh V.V., Dyl K.O., Polishchuk V.V., Salyuk A.F., Butenko Y.O., Chorna K.I. Methods and sources of obtaining data for knowledge bases of technical, technological, organizational measures in planning water and

land use in reclaimed territories. Reclamation and water management. 2021. No. 1 (113). P. 25-28.

Polishchuk V.V., Zhovtonog O.Y., Salyuk A.F., Butenko Y.A., Chorna K.I. Indicative assessment of irrigation use based on ground and remote monitoring data / Collection of articles mezhdunar. scientific - practical conf. "Management of water resources in the conditions of globalization", dedicated to the 105th anniversary of the birth of Professor L. E. Tazhibayev, March 11-12, 2021. Almaty: Aitumar. 2021. P.71-77.

Polishchuk V., Zhovtonog O., Saliuk, A., Butenko, Y., & Chorna, K. Model Complex of Information System "GIS Poliv" and Remote Sensing Data use to Adjust Model Parameters. In 2021 IEEE 3rd International Conference on Advanced Trends in Information Theory (ATIT) (pp. 211-214). IEEE. ISBN 978-166543845-2 DOI 10.1109/Atit54053.2021.9678578 (Scopus)

Presentation of scientific results

Reports at scientific conferences* (seminars, symposia, etc.)

(no more than 10 positions in the last 10 years)

Polishchuk V.V., Zhovtonog O.I., Salyuk A.F., Butenko Y.O., Chorna K.I. Integrated approaches to the planning of water and land use in reclaimed territories // Materials of the International. science and practice inter.-conf. dedicate On the 150th anniversary of the founding of the Department of Agriculture named after O.M. Mozheyka "Theoretical and practical aspects of modern farming systems", June 25, 2021. Kharkiv: Madrid Printing House, 2021. P.94-98

Matyash T., Bogayenko V., Shevchuk S., Kruchenyuk A., Butenko Y. Use of the "Polyv Online" system for monitoring observations and formation of irrigation regimes when growing corn for grain // Materials of the International Scientific and Practical Online Conference "Groundwater as a strategic resource for the economic development of the state", dedicated to the World Day of Water Resources, March 22, 2022, Kyiv.–P.106-107 <https://doi.org/10.31073/mivg2022>

Hordiienko O., Trofymchuk O., Anpilova Y., Butenko Y., Oboznyi O., Hilman P. Optimization of Data Sets and Improvement of Methods for Calculating the Soil Brightness Index // 16th International Conference Monitoring of Geological Processes and Ecological Condition of the Environment, Nov 2022, Volume 2022, P.1 – 5 <https://doi.org/10.3997/2214-4609.2022580104> (Scopus).

Improvement of scientific qualifications

Additional professional schools (trainings, summer schools, educational seminars, master classes, courses, etc., to acquire relevant scientific knowledge, skills and abilities) <i>(no more than 5 positions in the last 10 years)</i>	<i>Institute of Grain Crops of the National Academy of Agrarian Sciences of Ukraine, advanced training in the department of agrobiological resources of grain and leguminous crops. 2018</i> <i>Institute of Agroecology and Nature Management of the National Academy of Sciences, advanced training. 2021.</i>
Scientific internships abroad (lasting more than 2 months, in higher education institutions or research institutions, except correspondence and with the exception of CIS countries) (no more than 5 positions in the last 10 years)	<i>Borlaug Fellowship Program, Texas A&M University, USA. Conducting research on the topic "Modern methods of determining evapotranspiration, determining crop coefficients and remote sensing for irrigation management." 2016</i>
Membership in independent scientific organizations (non-institutional professional academic associations, societies, unions, unions of researchers, except trade unions) <i>(no more than 5 positions in the last 10 years)</i>	<i>MGO "Primavera" is an international, non-governmental, professional organization aimed at achieving the goals of sustainable development of rural areas and the use of land and water resources in agriculture.</i> <i>Expert</i> <i>https://primavera.pp.ua/about-us/</i>
Additional information about other important scientific achievements, qualifications, competences, or types of scientific activity that are significant for the implementation of the submitted research/development project	<i>2019. Conducting the lecture "The role of remote monitoring in organic farming" in accordance with the agreement between the European Bank for Reconstruction and Development, an international financial institution and the Institute of Water Problems and Land Reclamation.</i> <i>2023. Project "Market analysis for Rebuilding and Modernization of on-farm Irrigation in Ukraine", NIRAS</i> <i>Expert</i>

(no more than 5 positions in the last 10 years)	
Proficiency in foreign languages*	<i>English</i> <i>Italian (basic level)</i>