OLHA KACHALOVA (Kuzmanenko)

Date of Birth May 31, 1981
Place of Birth Kyiv, Ukraine

Education

Master of Sciences Degree in Environmental Science, Ecology and Sustainable Development, National University of Kyiv-Mohyla Academy, Kyiv. Ukraine (2005)

Trainings & Courses taken

2023	**Geocomputation and Machine Learning for environmental applications** (Spatial Ecology Ltd.)
2023	**Python for Data Science** (Robot Dreams Online Educational Platform, Kyiv, Ukraine)
2022	**Mathematics & Statistics for Data Science** (Robot Dreams Online Educational Platform, Kyiv, Ukraine)
2013	**Introduction into ENVI 5.0** (TVIS Company, Kyiv, Ukraine)
2011	**Image processing in ERDAS Imagine 2011** (TVIS Company, Kyiv, Ukraine)
2011	**Thematic processing of multispectral satellite images in ERDAS Imagine 2011** (TVIS Company, Kyiv, Ukraine)

Work Experience

From 2022	Department of Landscape Ecology, Silva Tarouca Research Institute for Landscape and Horticulture, Brno, Czech Republic (Researcher)
2019 – 2023	VisiCom Company, Kyiv, Ukraine, (GIS and RS expert)
2017 – 2022	Individual Consultant for scientific and environment-related projects
2011 – 2017	NaUKMA Centre for Ecosystem Research, Climate Change and Sustainable Development (Research Associate)
2001 – 2010, 2014	Department of Geobotany and Ecology, Institute of Botany NAS of Ukraine (Junior Researcher)
2008 – 2014	National University of Kyiv-Mohyla Academy, Kyiv, Ukraine (Senior Lecturer)

Majn Projects

2022 – 2023	TAČR Project **Příčiny úpadku a systém účinné obnovy prioritních typů stanovišť subalpínských trávníků** remote sensing and mapping subalpine vegetation, modelling of subalpine grassland dying and recovering, data analysis
2018	**WWF Freshwater Program: Restoration of Danube Delta Islands** (WWF Eastern European Branch) mapping of vegetation via RS techniques, time-scale research of vegetation change
2014 – 2015	**UNDP Clima East: Conservation and Sustainable Use of Peatlands** (UNDP Ukraine) vegetation mapping
2013 – 2014	**Developing of Models, Methods and Algorithms for Forest-Steppe and Steppe Vegetation Communities Assessment with Use of Remote Sensing Data** (M.G. Kholodny Institute of Botany NAS of Ukraine) Vegetation and Remote Sensing Expert
2010 – 2012	**Avoidance of Greenhouse Gas Emissions by Restoration and Sustainable Management of Peatlands in Ukraine** (RSPB, UK & USPB, Ukraine & Michael Succow Foundation, Germany) Vegetation mapping and biomass stock assessment via remote sensing techniques
2010 – 2012	**Non-Linear Response of Ukrainian Grassland to Altered Precipitation** (NaUKMA Centre for Ecosystem Research, Climate Change and Sustainable Development & University of Oklahoma (USA), Karadag Nature Reserve (Ukraine) coordination of field experiment, vegetation survey

Main Articles and Conference Presentations

Kachalova O., Houška J. (2022) Retrospective analysis of the extent of subalpine grassland decline and detection of priority habitat types using remote sensing / Abs. of the Conference Životní prostředí - prostředí pro život 2022 12 – 14 September 2022. Praha, CENIA: 90 – 91. Link

Kachalova O., Norenko K., Didukh Ya. (2014) Impact of climate factors on accumulation and decomposition of aboveground plant biomass in steppe phytocenoses of Karadag nature reserve. NaUKMA Sci. Let. Biology and Ecology. V 158: 78 – 87. Link

Didukh Ya. P., Kuzmanenko O. L. (2013) Monitoring of grassland response to altered precipitation in Karadag nature reserve: a baseline study. Ukr. Bot. J. 70(1): 3–15
https://doi.org/10.15407/ukrbotj70.01.003/

Kuzmanenko O.L., Orlov O.O., Aksyom O.S., Mykytyuk O.Yu. (2012) Methodology for high-resolution vegetation mapping with use of remote sensing techniques. In: Habitats of Ukraine: scientific foundations of their research and practical results of the inventory. Kyiv, 2012

Didukh Ya., Kuzmanenko O., Vyshenska I., Khalaim O., Luo Yi. (2012) Steppe ecosystem response to manipulative alteration of precipitation levels / European Vegetation Survey 21st Workshop, Vienna, 24-27 May 2012. – Vienna, 2012.

Didukh Ya., Kuzmanenko O. (2010) The relationships between the concepts of habitat, biotope and ecotope. Ukr. Bot. J. 67(5): 668 – 679. Link

Kuzmanenko O.L. (2009). The project of the eco-network of the South-Eastern Mountainous Crimea using European approaches. In: Karadag - 2009: Collection of scientific works dedicated to the 95th anniversary of the Karadag Scientific Station and the 30th anniversary of the Karadag Nature Reserve of the National Academy of Sciences of Ukraine: 137 – 149.

Vasylenko, S. M., & Kuzmanenko, O. L. (2009). Characteristic of the Juniperus excelsa Bieb. population of Kyzyltash (Southern-eastern Crimea): density, age structure, phytosociological and ecological features. Chornomors'k. Bot. Zh, 5, 98-106. Link

Didukh, J., & Kuzmanenko, O. (2008) Classification and Coenotic Characteristics of Forest and Wood Habitats of Sudak-Feodosia Geobotanical Region of Crimean Mountains. NaUKMA Sci. Let., V. 80: 33 – 42. Link