CURRICULUM VITAE

SERHII SYDORENKO

Date of birth: 08 DEC 1988
Nationality: Ukrainian

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EDUCATION:

12.2011 – 12.2014	Ph.D. programme in forest sciences and forestry speciality, Ph.D. in Agricultural Sciences, Ukrainian Research Institute of Forestry and Forest Melioration named after G. M. Vysotsky, Kharkiv, Ukraine
09.2010 – 12.2011	Master of Science in Forestry, Faculty of Forestry, Kharkiv National Agrarian University named after V. V. Dokuchayev, Kharkiv, Ukraine
09.2006 – 06.2010	Bachelor in Forestry, Faculty of Forestry, Kharkiv National Agrarian University named after V. V. Dokuchayev, Kharkiv, Ukraine

PROFESSIONAL EXPERIENCE:

2011–present	Department of Forest ecology, URIFFM:
2019–present	the **Expert Group on Forest Fires** as an expert representing Ukraine **(**EU, DG Environment, Joint Research Centre**)**
2021–present	The Head of Forest Ecology Sector
2018– present	Senior Research Officer
2017–2018	Research Officer
2014–2017	Junior Research Officer
2011–2014	Ph.D. Student

Areas of activities:

Forestry
- Forest ecology

Wildfire management
- Forest fuel assessment and modelling
- Fuel management
- Prediction of post fire tree mortality

Patterns of species fire resistance
Postfire forest resilience and restoration

Curriculum vitae

Company& reference person (name & contact details):

Prof. Viktor Tkach, Director of URIFFM, Corresponding Member of National Academy of Agrarian Sciences of Ukraine

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MEMBERSHIP OF PROFESSIONAL BODIES:

National expert in the Expert Group on Forest Fires **(**EU, DG Environment, Joint Research Centre, EFFIS**)**.

OTHER SKILLS:

Tools	Scale
GIS / Geospatial analisis: QGis, Google Earth Engine etc.	advanced
Data Analysis (SPSS, Statistica, RStudio)	advanced
Programing skills: Java script, R	intermediate
Remote sensing	advanced
Foreign Languages: English Russian	 upper intermediate / fluent

PERSONAL SKILLS:
Strong analytical skills, ideas person, team player, self-motivated, fast learner, positive.

KEY QUALIFICATIONS:

Experienced in the development of methods for evaluation of the current state of forests ecosystems health and the influence of anthropogenic factors on them. Highly proficient in the study of post fire forest growth and trees mortality, studying the fire resistance of different forest stands and its improvement, studying the features and probability of the forest fire occurrence in different types of forest ecosystems, forest fuels formation in various natural zones of Ukraine, development of scientific basis for conducting fire protective treatment based on fire risk assessment. Experienced in Fire Management Plans developing based on the cutting edge research. Skilled in research with active using of geospatial analysis and remote sensing methods.

Since 2011 S. Sydorenko participates in scientific projects of the State Forest Resources Agency of Ukraine, Food and Agriculture Organization (FAO), US Forest Service and USAID in the following areas: fire science, forestry, forest ecology, fire ecology, fire monitoring, forest fuel research. Since 2019 S. Sydorenko participates in the Expert Group on Forest Fires **(**DG Environment, Joint Research Centre**)** as an expert representing Ukraine.

KEY PROJECTS:

01.2010 – 12.2014 To develope *structural-functional changes of forests in the conditions of antropotechnogenic influence and to develop recommendations for the forestry management (Project of State Forest Resources Agency of Ukraine, State registration No 0110U001926). / Junior Researcher.*

01.2020 – 12.2024 Identify different aspects of pyrogenic damage on forests in different natural zones of Ukraine and develop science-based approches to reduce its negative effects Project of State Forest Resources Agency of Ukraine, State registration No 0120U101893). T*/ Senior Researcher.*

2020 – Integrated Natural Resources Management in Degraded Landscapes in the Forest-Steppe and Steppe Zones of Ukraine (GCP/UKR/004/GFF) / Senior Researcher.

02.04.2021–13.08.2021 Ukraine, USAID Economic Resilience Activity (ERA): Assessment of economic and ecological impact of forest fires in Luhansk Oblast, development of Forest restoration strategy and implementation of Environmental Impact Assessment (REQ-SEV-21-0001) / Senior Researcher.

05.10.2021 for now – US Forest Service expert, coordinator of the Fire Management Plan development; Ukraine, US FS / «Forest fire safety in Ukraine». Under the Grant Agreement № 18-IG-11132762-423 from 17.09.2018 / Subproject: Plan of fire safety and fire safety enforcement measures on the territory of exclusion zone and zone of unconditional (mandatory) displacement (fire management plan) / Project manager.

SELECTED PUBLICATIONS:

1. Voron V.P, Borysenko V.H., Muntian V.K, Tkach O.M., Sydorenko S.H., Melnyk Ye.Ye., Barabash I.O. (2018) Thermal influence of surface fires on forest soils. Forestry and Forest Melioration, 132, 105-114 (in Ukrainian).
2. Sydorenko, S. H., & Liubchych, A. M. (2019). Postfire tree mortality modelling for pine stands damaged by summer surface fires in the left-bank forest-steppe of Ukraine. № 135 (2019) : Forestry and Forest Melioration. https://doi.org/10.33220/1026-3365.135.2019.157
3. Sydorenko, S. H., Voron, V. P., Sydorenko, S. V., & Bolohov, O. M. (2019). Main indicators of scots pine (Pinus sylvestris L.) fire resistance within Left-bank Forest-Steppe. Forestry and Forest Melioration, (135), 149-156. https://doi.org/10.33220/1026-3365.135.2019.149
4. Koval I., Sydorenko S (2019) The influence of surface fire on radial and height growth of Pinus sylvestris L. in forest-steppe in Ukraine. Folia Forestalia Polonica. Vol. 61 (2)). Instytut Badawczy Leśnictwa Forest Research Institute, Poland. – 2019. – С. 123–134.
5. Yavorovskyi P. P., Hurzhii R. V., Sydorenko S. H. (2019). Formation of the complex of ground forest fuel in pine forests of Kyiv Polissya. Ukrainian Journal of Forest And Wood Science, 10(2): 72-80. https://doi.org/10.31548/forest2019.02.072.
6. Sydorenko S. H. (2020) Fire resistance and post-pyrogenic tree mortality in pine forests in the left-bank part of Kharkiv region at different levels of fire danger. Forestry and Forest Melioration (136) 134-141 https://doi.org/10.33220/1026-3365.135.2019.149

LAST CONFERENCE PRESENTATIONS

1. Sydorenko S. Approaches to managing forests after fire. «Environmental change and the forest fires». Istanbul Regional Directorate of Forestry Campus, Istanbul Universitesi-Cerrahpaşa. Turkey, Istanbul, September 4-5 2021. p. 9.
2. Sydorenko S., Voron V., Sydorenko S.V., Koval. I., Melnyk Ye. Forest fire risks in Ukraine in the context of climate change. Proceedings of abstracts from the international scientific conference ENVIRO 2021, held under the auspices of the dean of Horticulture and Landscape Engineering Faculty, Slovak University of Agriculture in Nitra. SUA in Nitra, 2021. P. 24. DOI: https://doi.org/10.15414/2021.9788055224084 ISBN 978-80-552-2408-4