

МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ
БІЛОЦЕРКІВСЬКИЙ НАЦІОНАЛЬНИЙ АГРАРНИЙ УНІВЕРСИТЕТ

СЕРТИФІКАТ

виданий

Міськовій Олені Вікторівні

за участь у II міжнародній науково-практичній
інтернет-конференції
«СУЧАСНІ ВИКЛИКИ І АКТУАЛЬНІ ПРОБЛЕМИ
ЛІСІВНИЧОЇ ОСВІТИ, НАУКИ ТА ВИРОБНИЦТВА»
15 квітня 2022 року

Ректор університету

Олена ШУСТ

ANALYSIS OF VEGETATION ECOLOGY DATA IN

Online workshop organized by the IAVS Young Scientists Working Group
April 2022

CERTIFICATE OF COMPLETION

This is to certify that

Dariia Shyriaieva (Ukraine)

successfully completed requirements of the #AnaVeg2022 online workshop by receiving the score 95 points
(out of 100, with 70 being passing threshold).

The workshop included five 3-hours lectures with theory and exercise related to methods of ordination,
classification and diversity analysis, and also homework assignments and online quiz.

The course was lectured by Dr. David Zelený, with Po-Yu Lin as teaching assistant.



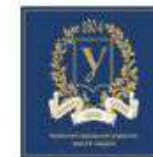
IAVS

David Zelený
Lecturer of the workshop
Associate Professor at National Taiwan University, Taiwan

BioDATA



UiO : Natural History Museum
University of Oslo



V.N. KARAZIN KHARKIV
NATIONAL UNIVERSITY



GBIF

Global Biodiversity
Information Facility



Norwegian Directorate
for Higher Education
and Skills

CERTIFICATE OF PARTICIPATION

The University of Oslo Natural History Museum, the ForBio Research School in Biosystematics, GBIF Norway, and GBIF: the Global Biodiversity Information Facility, are pleased to award

Kateryna Lavrinenko

this certificate for active and valuable participation at the five-day course

BioDATA – Biodiversity data management skills for students

1st to 19th of August 2022, Ukraine – Estimated 40 hours is equal to 2 ECTS

Hugo de Boer
Acting Research Director
University of Oslo
Natural History Museum

Dag Endresen
GBIF Norway
University of Oslo
Natural History Museum

Dmitry Schigel
GBIF Scientific Officer
GBIF Secretariat

Laura Anne Russell
Programme Officer
GBIF Secretariat

Oleh Prylutskyi
Associate professor
V.N. Karazin Kharkiv
National University



СЕРТИФІКАТ

Даний сертифікат підтверджує участь

Міськової Олени Вікторівни

у роботі Всеукраїнської науково-практичної конференції
по обміну досвідом

**«Робота природоохоронних закладів України
під час військового стану»**

Директор комунального закладу Сумської обласної ради
«Регіональний ландшафтний парк «Сеймський»»

Марія Коняєв

Путівль, 20 вересня 2022 р.



Internship report

Ukrainian PhD student Dariia Shyriaieva has stayed at Masaryk University from September 2021 to February 2022 (autumn semester) with the Visegrad scholarship. During this period, she worked as planned under the supervision of Prof. Milan Chytrý, with the following achievements:

- data analysis of own database vegetation relevés using JUICE software (for vegetation classification) and R (for statistics and visualizations);
- processing of herbarium specimens to supplement the University Herbarium BRNU with specimens from the steppe region (Southwestern Ukraine);
- work on the manuscripts about vegetation diversity, species richness and ecological differentiation of the grasslands in Southern Bug river valley;
- completion of the EU-UA-001 Ukrainian Grassland Database, included in European Vegetation Archive (EVA), with data from South-Western Ukraine;
- participation in the 29th Conference of European Vegetation Survey: Revegetating Europe – Contributions of the EVS to the UN Decade on Ecological Restoration (Online conference, 6–7 September 2021) with oral presentation “Grasslands of the Buzkyi Gard National Nature Park (Ukraine): inventory, mapping, and management”;
- participation in the 63rd IAVS Annual Symposium (Online conference, 20–23 September 2021) with own oral presentation “Exploratory analysis of the spectral reflectance curves of habitat types: a case study on Southern Bug River valley, Ukraine” and poster presentation “Inventory of grassland habitats of Ukraine using phytosociological databases” (Kuzemko et al., including D. Shyriaieva);
- participation in the Plant Ecology Lab Meetings.

During the scholarship time in 2021–2022, Dariia Shyriaieva prepared her own scientific publications, contributed to scientific projects of Masaryk University and conducted other international cooperation, including the following achievements:

1. Shyriaieva D., Kubešová S. & Virchenko V. 2021. *Rhynchostegium megapolitanum*. In: New national and regional bryophyte records, 65. Journal of Bryology, v. 43, 67–91.
2. Biurrun I., Pielech R., Dembicz I., ..., Shyriaieva D., ... & Dengler J. 2021. Benchmarking plant diversity of Palaearctic grasslands and other open habitats. Journal of Vegetation Science 32(4), p. 1–21.
3. Moysiienko I., Vynokurov D., Shyriaieva D., ... & Dembicz I. 2022. Grasslands and coastal habitats of Southern Ukraine: First results from the 15th EDGG Field Workshop. Palaearctic Grasslands 52: 44–83.

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Please quote the Reference Number in your reply.



4. **Shyriaieva D.V.**, Shyian N.M. 2021. *Trifolium vesiculosum* (Fabaceae) in Ukraine: a new find and historical overview. *Ukrainian Botanical Journal*, 78(2): 83–95.
5. **Shyriaieva D.V.** 2022. Ecological and coenotic differenciation of meadow vegetation of the National Nature Park “Buzkyi Gard”. *Ukrainian Botanical Journal* 79(1): 26–37.
6. **Shyriaieva D.V.** 2022. Ecological differentiation, classification and conservation value of the threatened sandy grasslands in Southern Bug River basin (South-Western Ukraine). (Paper prepared for publication in *Tuxenia* journal).
7. **Shyriaieva D.V.**, Shynder O.I. 2022. New data on distribution and ecology of the Balkanian-Pontic species *Silene frivaldszkyana* (Caryophyllaceae) in Ukraine. (Paper prepared for publication in *Botanica Serbica* journal).
8. Contribution to the project “Wild Edible Plants of Europe” (project leading by Corrado Marceno, Masaryk University) with species data from Ukraine.
9. Contribution to the project “Revision of the *Linaria angustissima/biebersteinii* group” (Masaryk University) with herbarium and species data from Ukraine.
10. Contribution to the project “Grassland habitats of Ukraine of pan-European importance: current status, losses extent and conservation strategy in the context of global climate change and anthropogenic transformation of the environment” (project leading by Anna Kuzemko).
11. Contribution to the project “Functional, syntaxonomical and phylogenetic diversity of steppes of Ukraine as a basis of an evaluation of their ecosystem services” (project leading by Denys Vynokurov).
12. Contribution to the project “Repeated plot surveys” (project leading by Martin Diekmann and Leonie Mazalla) with vegetation data from Ukraine.

In Brno on 25th February 2022


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Internship report

Ukrainian scholar Dariia Shyriaieva stayed at Masaryk University from September 2022 to February 2023 (autumn semester) with the support of the Visegrad scholarship. During this period, she worked as planned under the supervision of Prof. Milan Chytrý, with the following achievements:

- data analysis of own database vegetation relevés using JUICE software (for vegetation classification) and R (for statistics and visualizations);
- participation in the 17th Eurasian Grassland Conference: Grassland dynamics and conservation in a changing world (Tolosa, Spain, 12-18 September 2022) with an oral presentation "Dry grasslands of Southern Buh River valley in the steppe zone of Ukraine";
- participation in the Plant Ecology Lab Meetings;
- processing of herbarium specimens from the steppe region (southern Ukraine) for the University Herbarium BRNU;
- publication of scientific results:
 - **Shyriaieva D.** 2022. Classification, ecological differentiation, and conservation value of Pontic sandy grasslands in the Southern Buh River Basin (Ukraine). *Tuexenia* 42: 57–94. doi: 10.14471/2022.42.008.
 - Kuzemko, A.A., Budzhak, V.V., Vasheniak, Yu.A., Vynokurov, D.S., Didukh, Ya.P., Dziuba, T.P., Iemelianova, S.M., Kucher, O.O., Moysienko, I.I., Tokaryuk, A.I., Khodosovtsev, O.E., Chorney, I.I., Chusova, O.O., Shapoval, V.V., **Shyriaieva, D.V.**, Balashov, I.O. et al. 2022: Atlas of grassland habitats of Ukraine. Chernivtsi. 244 p.
 - Chusova O.O., **Shyriaieva D.V.**, Budzhak V.V., Chorney I.I., Dziuba T.P., Iemelianova S.M., ... & Kuzemko A.A. 2022. Protected species in grassland habitats of Ukraine. *Ukr. Bot. J.* 79(5): 290–307.
 - **Shyriaieva D.** & Vynokurov D. 2022: *Lathyrus sphaericus* Retz. – Pp. 283–284 in: Euro+Med-Checklist Notulae, 15. *Willdenowia* 52: 273–299. <https://doi.org/10.3372/wi.52.52205>
- contribution to the scientific projects of Masaryk University: "DivLand – Centre for landscape and biodiversity" (field sampling and data processing); "Structural, ecological and biogeographical attributes of European vegetation alliances" (contribution with data on vegetation alliances in Ukraine);
- other international cooperation: project "sScaleGrassDiv - Do the mechanisms of land-use effects on grassland plant diversity depend on spatial scales and environmental contexts?" (contribution to the project with own field data and participation in a workshop).

From February to June 2023, Dariia Shyriaieva will continue her stay at Masaryk University during the spring semester.

In Brno on 15th March 2023



Professor Milan Chytrý

Head of Department of Botany and Zoology
Faculty of Science
Masaryk University

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September 12, 2022

To: whoever it may concern

Confirmation of arrival

Herewith I confirm that Dariia Shyriaieva started her internship at the Department of Botany and Zoology, Faculty of Science, Masaryk University on September 1st, 2022. The expected length of her research period is till June 30th, 2023 (10 months). She will work under supervision of professor Milan Chytrý.

Supervisor is ready to support her with regular on-line consultations including vegetation analysis, assessment of ecological parameters and preparing an article.

Besides individual research working plan, additional educational activities are also planned: participation in online seminars and Lab Meetings of the Department of Botany and Zoology (including own presentations).

Professor Milan Chytrý

Head of the Department of Botany and Zoology

Faculty of Science

Masaryk University

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