Curriculum vitae

**RNDr. Eva Jamrichová, PhD. et PhD.**

Date of birth: 31th August 1982 in Nitra, Slovakia

[ORCID iconhttps://orcid.org/0000-0003-1259-9463](https://www.scopus.com/redirect.uri?url=https://orcid.org/0000-0003-1259-9463&authorId=37028356200&origin=AuthorProfile&orcId=0000-0003-1259-9463&category=orcidLink%22)

**Research activities:**

Palaeoecology and vegetation history; Tree migration; Detection of human impact in pollen records, Western Carpathians, Pannonian lowland.

**Methods of investigations:**

Analyses of pollen; NPP (Non Pollen Palynomorphs); Micro-charcoal; LOI (Loss-on-ignition); depth-age modelling

H-index: **12 (WOS)**

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**Education and jobs**

2000–2005: Master degree, Department of Natural Sciences, The Constantine Philosopher University in Nitra, Slovakia, in: Biology and Chemistry (Thesis: Small mammal biodiversity in orchards and adjacent habitats).

2005–2009: PhD. degree, Faculty of Natural Sciences, The Constantine Philosopher University in Nitra, Slovakia, in: Environmentalistic, Conservation and Land-use (Thesis: „Selected landscape properties as settlement factors in Nitra region during the Neolithic, Eneolithc (Late Neolithic) and the Bronze Age).

2008: RNDr. Degree, Department of Natural Sciences, The Constantine Philosopher University in Nitra, Slovakia, in: Botany (Thesis: Reconstruction and development of Late Glacial and Holocene vegetation of Poprad basin performed by pollen analysis of peat bog in Spišská Teplica).

2008-2016: PhD. degree, Department of Botany, Faculty of Natural Sciences, Charles University in Prague, in: Botany (Thesis: Anthropogenic impact on landscape transformation and vegetation changes reflecting in pollen spectra from central-eastern Europe).

2009-2019: scientist at Department of Botany and Zoology, Masaryk University, Brno, Czech Republic

Since 2009: scientist at Department of Vegetation Ecology, Institute of Botany of the Czech Academy of Science, Brno, Czech Republic.

**Abroad stays**

3–4/2010: Institute of Plant Science, University of Bern, Switzerland

11–12/2010: Instytut Botaniki Polskiej Akademii Nauk w Krakowe, Polsko

**Projects**

*Researcher:*

2008-2012: Lowland woodland in the perspective of historical development (GAAV ČR IAA600050812. Project leader: Radim Hédl

2008-2011: Origin and development of the Western Carpathian calcareous-fens and their biota: the question of glacial relicts and refuges (GAAV ČR KJB601630803). Project leader: Michal Horsák

2011-2015: Environmental gradients, vegetation dynamics and landscape changes in the West Carpathians from the Late Glacial up to the present time (GAČR P504/11/0429). Project leader: Petra Hájková

2012-2016: Long-term woodland dynamics in Central Europe: from estimations to a realistic model.“ (European Research Council (XE) FP7/2007-2013 ERC Grant agreement no. 278065). Project leader: Péter Szabó

2012-2015: Pollen-based land-cover reconstruction - model testing and its implications for Holocene environmental change studies**“ (**GA ČR P504/12/0649**). Project leader: Petr Kuneš**

## **2015-2017:** [Vztahy mezi člověkem, klimatem a vegetací v předindustriální krajině na různých prostorových měřítcích (MUNI/M/1790/2014)](https://www.muni.cz/vyzkum/projekty/30944) Project Leader: Michal Hájek.

**2016-2018:** [Origin of diversity of Central European landscapes: using recent pollen and vegetation models to reconstruct historical biodiversity changes](https://edit.natur.cuni.cz/biologie/botanika/struktura/paleoekologie/projekty/origin-of-diversity-of-central-european-landscapes?set_language=en)(GA-10100S). Project leader: Jan Roleček

## 2017-2019: [Holocenní vývoj evropské bioty mírného pásu: vlivy klimatu, refugií a lokálních faktorů testované na komplexních datech nezávislých proxy (GA17-05696S)](https://www.muni.cz/vyzkum/projekty/36126). Project leader: Michal Horsák.

2021-2022: BESTFORCE Temperate mountain forest dynamics: their long-term divers and diversity at the continentality gradient (GA 20-13368S)

**Publication activity**

Total number of accepted publications in journals covered by Web of Knowledge: 21

Total number of other papers: 4

Articles in peer reviewed journals

Hájek M., Horsák M., Tichý L., Hájková P., Dítě D., **Jamrichová E.** (2011) Testing a relict distributional pattern of fen plants and terrestrial snail species at Holocene scale: a null model approach. *Journal of Biogeography,* 38: 742 – 755. DOI: 10.1111/j.1365-2699.2010.02424.x

Hájková P., Roleček J., Hájek M., Horsák M., Fajmon K., Polák M., **Jamrichová E.** (2011) Prehistoric origin of the extremely species-rich semi-dry grasslands in the Bílé Karpaty Mts. (Czech Republic and Slovakia). *Preslia*, 83: 185–204.

**Jamrichová E.,** Szabó P., Hédl R., Kuneš P., Bobek P., Pelánková B. (2013) Continuity and change in the vegetation of a Central European oakwood. *The Holocene*, 23: 46-56. DOI: 10.1177/0959683612450200

Hájková P., **Jamrichová E.,** Horsák M., Hájek M. (2013) Holocene history of *Cladium mariscum* dominanted calcareous fen: vegetation stability and landscape development. *Preslia* 85: 317 – 332.

# Jamrichová E., Hájková P., Horsák M., Rybníčková E., Lacina A., Hájek M. (2014) Landscape history, calcareous fen development and historical events in the Slovak Eastern Carpathians. *Vegetation History and Archaeobotany* 23: 497-513. DOI: 10.1007/s00334-013-0416-0

**Jamrichová E.,** Potůčková A., Hajnalová M., Barta P., Tóth P., Kuneš P. (2014) Early occurence of oak-dominated forest in northern part of the Little Hungarian Plain, SW Slovakia. *The Holocene* 24: 1810-1824. DOI: 10.1177/0959683614551225

Hájková P., Horsák M., Hájek M., Jankovská V., **Jamrichová E**., Moutelíkova J. (2015) Using multi-proxy palaeoecology to test a relict status of refugial populations of calcareous-fen species in the Western Carpathians. *The Holocene*, DOI: 10.1177/0959683614566251.

Hájek M., Dudová L., Hájková P., Roleček J., Moutelíková J., **Jamrichová E.,** Horsák M. (2016) Contrasting Holocene environmental histories may explain pattern of species richness and rarity in a Central European landscape. *Quaternary Science Reviews* 133: 48-61. DOI:10.1016/j.quascirev.2015.12.012

Gálová A., Hájková P., Čierniková M., Petr L., Hájek M., Novák J., Rohovec J., **Jamrichová E.** (2016) Origin of a boreal birch bog woodland and landscape development on a warm low moutain summit at the Carpathian-Pannonian interface. *The Holocene* 26: 1112-1126. DOI: 10.1177/0959683616632884

# Szabó P., Gálová A., Jamrichová E., Šumberová K., Šipoš J., Hédl R. (2016) Trends and events through seven centuries: the history of a wetland landscape in the Czech Republic.  *Regional Environmental Change*. **DOI:** 10.1007/s10113-016-1033-0.

# Abrahám V., Kuneš P., Petr L., Svitavská-Svobodová H., Kozáková R., Jamrichová E., Švarcová M.G., Pokorný P. (2016) A pollen-based quantitative reconstruction of the Holocene vegetation updates a perspective on natural vegetation in the Czech Republic and Slovakia. *Preslia* 88: 409-434.

# Jamrichová E., Hédl R., Kolář J., Toth P., Bobek P., Procházka J., Kadlec J., Szabó P (2017) Human impact on open temperate woodlands during the middle Holocene in Central Europe. *Review of Palaeobotany and Palynology* 245: 55-68. DOI: 10.1016/revpalbo.2017.06.002

**Jamrichová E**., Petr L., Jiménez-Alfaro B., Jankovská V., Dudová L., Pokorný P., Kołaczek P., Zernitskaya V., Čierniková M., Břízová E., Syrovátka V., Hájková P., Hájek M. (2017) Pollen-inferred millennial changes in landscape patterns at a major biogeographical interface within Europe*. Journal of Biogeography* 44, 2386 – 2397. DOI:10.1111/jbi.13038

Hájková P., **Jamrichová E.,** Petr L., Dudová L., Roleček J., Gálová A., Dresler P., Novák J., Hájek M. (2017) Persistance of a vegetation mosaic in a peripheral region: could turbulent medieval history disrupt Holocene continuity of extremely species-rich grasslands***?*** *Vegetation History and Archaeobotany*. DOI:  10.1007/s00334-017-0660-9.

**Jamrichová E**., Gálová A., Gašpar A., Horsák M., Frodlová J., Hájek M., Hajnalová M., Hájková P. (2018) Holocene development of two calcareous spring fens at the Carpathian-Pannonian borderland controled by climate and human impact. *Folia Geobotanica*. DOI: 10.1007/s12224-018-9324-5

Bobek P., Šamonil P., **Jamrichová E.** (2018) Biotic controls on Holocene fire frequency in a temperate mountain forest, Czech republic. *Journal of Quaternary Science*. [doi.org/10.1002/jqs.3067](https://doi.org/10.1002/jqs.3067)

Wiezik M., Hájková P., **Jamrichová E.**, Hrivnák R., Hájek M. (2018) Pre-industrial composition of woodlands and modern deforestation events in the southern part of the Western Carpathians. *Review of Paleobotany and Palynology* 260; 1-15. DOI.10.1016/j.revpalbo.2018.10.009

**Jamrichová E.**, Bobek P., Šolcová A., Tkáč P., Hédl R., Valachovič M (2019): Lowland pine forests in the northwestern Pannonian Basin: between natural forest nad modern plantations. *Regional Environmental Change* 19: 2395-2409. DOI:10.1007/s10113-019-01555-y

Kuneš P., Abraham V., Werchan B., Plesková Z., Fajmon K., **Jamrichová E.,** Roleček J. (2019) Relative pollen productivity estimates for vegetation reconstruction in central-eastern Europe inferred at local and regional scale. *The Holocene*. DOI: 10.1177/0959683619862026

Šímová A., Pánek T., Galka M., Zernitskaya V., Hájková P., Brodská H., **Jamrichová E.**, Hájek M. (2019) Landslides increased Holocene habitat diversity on a flysh bedrock in the Western Carpathians. *Quaternary Science Reviews* 2019: 68-83.

DOI: 10.1016/j.quatscirev.2019.07.009.

Hájková P., **Jamrichová E.**, Wiezik M., Peterka T., Petr L., Singh P., Máliš F., Fajmonová Z., Hájek M. (2019) Spruce representation in zonal woodlands may be overestimated when using pollen from peatlands. *Rewiev of Palaeobotany and Palynology* 271: 104104. DOI: 10.1016/revpalbo.2019.104104

Bobek P., Svitavská-Svobodobá H., Pokorný P., Šamonil P., Kuneš P., Kozáková R., Abrahám V., Klinerová T., Švarcová M.G., **Jamrichová E.**, Krauseová E., Wild H. (2020) Divergent fire history trajectories in Central European temeprate forests reveald a pronounced influence of broadleaved trees on fire dynamics. *Quaternary Science Reviews* 222: 105865. DOI: [10.1016/j.quascirev.2019.105865](https://www.researchgate.net/deref/http%3A%2F%2Fdx.doi.org%2F10.1016%2Fj.quascirev.2019.105865?_sg%5B0%5D=eqov27SZGnaMp6eYgNagUiyDazDRST0Q3FYeaqzdJLXZ9IPCxXSJcz7iwNwYTe-nDtPMpCP3oL88ACUp7NEtzHWOBg.ac8OAoMKIBRq4qFbDuLSoW_xPa8kvWOV68TeYQktJF-yGTWCSN2JPtiKfPC3v8q5Kpb_UZiFPl2e4c5kfkTeEQ)

Šolcová A., **Jamrichová E.**, Horsák M., Pařil P., Petr L., Heiri O., Květoň J., Křížek M., Hartvich F., Hájek M., Hájkpová P. (2020) Abrupt vegetation and environmental change since the MIS 2: a unique palaeorecord from Slovakia (Central Europe). *Quaternary Science Reviews* 230: 106170. DOI:10.1016/j.quatscirev.2020.106170

Divíšek J., Hájek M., **Jamrichová E.**, Petr L., Večeřa M., Tichý L., Willner W., Horsák M. (2020) Holocene matters: Landscape history accounts for current species richness of vascular plants in forests and grasslands of eastern central Europe. *Journal of Biogeography* 47: 721-735. DOI:10.1111/jbi.13787

Feurdean A., Vanniére B., Finsinger W. et al. (2020) Fire hazard modulation by long-term dynamics in land cover and dominant forest type in Eastern and Central Europe. *Biogeosciences* 17: 1213-1230. DIO: 10.5194/bg-17-1213-1230

Hájková P., **Jamrichová E.**, Šolcová A., Frodlová J., Petr L., Dítě D., Hájek M., Horsák M. (2020) Can relict-rich communities be an anthropogenic origin? Palaeoecological insight into ceonservation stratégy for endangered Carpathian travertine fens. *Quaternary Science Reviews* 234: 106241. DOI: 10.1016/j.quatscirev.2020.106241

Petr L., Petřík P., Chattová B., **Jamrichová E.**, Rohovec J., Matouskova S., Hajnalová M. (2020) The history of Pannonian lowland oak woodland-palaeoecological evidence from south-eastern Slovakia. *Folia Geobotanica* 55: 29-40. DOI: 10.1007/s12224-019-09360-5

Wiezik M., Petr L., Jankovská V., Hájková P., **Jamrichová E.**, Hrivnák R., Hillayová M., Jarčuška B., Máliš F., Hájek M. (2020) Western Carpathian mountian spruce woodlands at their southern margin: natural or anthropogenic origin? *Preslia* 92: 115-135. DOI:10.23855/preslia.2020.115

Roleček J., Svitavská-Svobodová H., **Jamrichová E.**, Dudová L., Hájková P., Kletetschka G., Kuneš P., Abrahám V. (2020) Conservation targets from the perspective of a palaeoecological reconstruction: the case study of Dářko peat bog in the Czech Republic. *Preslia* 92: 87-114. DOI: 10.23855/preslia.2020.87

Wiezik M., **Jamrichová E.**, Hájková P., Hrivnák R., Máliš F., Petr L., Jankovská V., Cierniková M., Hájek M. (2020)The last Glacial and Holocene history of mountain woodlands in the southern part of the Western Carpathians, with emphasis on the spread of *Fagus sylvatica. Palynology* 44: 709-722. DOI: 10.1080/0916122.2019.1690066

**Papers in other journals**

Jelínek P., Hlavatá J., Vavák J., Beňuš R., **Jamrichová E.** (2013) Natural Scientific Analyses at the Archaeological Excavation in Budmerice: Methods, Results, and Perspectives. *Interdisciplinaria Archaeologica* 4: 39-61.

**Jamrichová E.,** Hajnalová M., Tóth P. (2014) Human impact on the Holocene vegetation of Pařížské močiare marshes in SW Slovakia. *Scientia Iuvenis. Book of Scientific Papers*. Nitra, 191-199. ISBN 978-80-558-0650-1

Procházka J., Pišút P., **Jamrichová E.** (2015) Zazemňovanie gbelčianskej depresie počas holocénu vo svetle analýzy rostlinných makrozvyškov (profil Nová Vieska 2) [Infilling of the Gbelce depression during the Holocene period in the light of plant macrofossil analysis (profile Nová Vieska 2)]. *Geografický časopis* 67: 85-103.

Hájková P., Hájek M., Horsák M., **Jamrichová E.** (2015) Co víme o historii vápnitých slatinišť v Západních Karpatech (Our knowledge of the history of calcareous fens in the Western Carpathians). *Zprávy České Botanické Společnosti* 50: 267-282.

**Presentations at conferences**

(*presenting author is underlined, P-poster, T-talk*)

Jamrichová E.: Vplyv pravekého osídlenia na vývoj vegetácie v Spišskej Teplice (SV Slovensko) (T). Interdisciplinaria Archaeologica (2010), Nitra, Slovakia.

Jamrichová E., Bobek P., Pelánková B.: History of lowland woodland from the perspective of palaeoecology (P). 8th European Palaeobotany – Palynology Conference (2010), Budapest, Hungary.

Jamrichová E., Jankovská V.: Natural environment of human societies in Poprad Basin (NE Slovakia) from the Late Palaeolithic to the Medieval Period: landscape charakter and vegetation changes (P). XVIII. INQUA Congress (2011), Bern, Switzerland (2011).

Jamrichová E., Szabó P., Hédl R., Kuneš P., Pelánková B.: The role of management in the establishment of the European oakwood (P). Frontiers in Historical Ecology (2011), Birmensdorf, Switzerland.

Jamrichová E., Szabó P., Hédl R., Kuneš P., Pelánková B.: Úloha manažmentu pri vytváraní subkontinentálnyh dúbrav (P). Ekologie 2011, Kostelec nad černými lesy, Czech Republic (2011).

Jamrichová E., Hájková P., Horsák M., Rybníčková E., Lacina A., Hájek M. Vznik a vývoj vápnitých pramenísk ako dôsledok ľudskej činnosti –interdisciplinárny výskum vápnitých pramenísk východných Karpát (T). 18. Kvartér, Brno, Czech Republic (2012).

Jamrichová E., Szabó P., Hédl R., Kuneš P., Bobek P., Pelánková B.: Continuity and change in the vegetation of a temperate oakwood: a multidisciplinary study from the Central Europe (P). Konference environmentální archeologie (2013), České Budějovice, Czech Republic.

Jamrichová E., Jankovská V.: Vplyv človeka na postglaciálny vývoj vegetácie Popradskej kotliny (T). 10. Stretnutie prírodovedcov (2013) Liptovská Lúžna, Slovakia.

Jamrichová E., Hájková P., Horsák M., Hájek M.: The whole Holocene development of vegetation of the Ihned West Carpathians – Pannonian borderland: spreading of mesophilous trees, continuity of open grasslands and human impact (T). The First Interdisciplinary Symposium, Biogeography of the Carpathians: Evolution of Biodiversity in a Spaciotemporal Context (2013), Kraków, Poland.

Jamrichová E., Potůčková A., Horsák M., Hajnalová M.: Šírenie mezofilných drevín, pretrvávanie otvorených stanovísk a čudský impakt v období ranného a stredného holocénu v oblasti severnej časti Panónskej nížiny (JZ Slovensko) (T). 19. Kvartér (2013), Brno, Czech Republic.

Jamrichová, E., Petr, L., Hájková, P.: Postglaciálny vývoj vegetácie Slovenska vo svetle najnovších poznatkov (T). 3. Geologicko-Paleontologicko-Archeologická Diskusia (2014), Bratislava, Slovakia.

Jamrichová E., Potůčková A., Horsák M., Hajnalová M., Barta P., Kuneš P.: Early occurence of temperate oak-dominated vegetation in northern part of Pannonian Plain (P). Culture, Climate and Environment Interactions at Prehistoric Wetland Sites (2014), Bern, Switzerland.

Jamrichová E., Hédl R., Szabó P., Kolář J., Tkáč P., Bobek P.: Persistence of temperate open woodlands in Europe under the influence of human management (T). 9th European Palaeobotany and Palynology Conference (2014), Padova, Italy.

Jamrichová E., Hédl R., Szabó P., Kolář J., Tkáč P., Chudomelová M.: Persistence of open woodland under the influence of human management (P). Conference of Environmental Archaeology (2015), České Budějovice, Czech Republic.

Gálová A., Jamrichová E., Szabó P., Hédl R., Šumberová K.: The 500 years of lowland wetlands vegetation changes as relation to human impact and climate change (P). Climate variability and human impacts in Central and Eastern Europe during the last two millennia (2015), Gdansk, Poland.

Jamrichová Eva, Kuneš Petr, Svitavská-Svobodová Helena, Dudová Lydie: Spread of temperate trees during the Allerød period to the northern part of the Pannonian plain (Southern Moravia, Czech Republic) (P). 58thAnnual Symposium of the International Association for Vegetation Science: Understanding broad-scale vegetation patterns, Brno (2015), Czech Republic.

Jamrichová E, Petr L, Jiménez- Alfaro B, Jankovská V, Dudová L, Pokorný P, Kołaczek P, Zernitskaya V, Čierniková M,Břízová E, Hájková P, Hájek M: Pollen-inferred millennial changes in landscape patterns at a major biogeographical interface within Europe (P). EPD Meeting and Training workshop (2016), Aix-en-Provance, France.

Jamrichová E, Kolář J, Hédl R, Tkáč P, Szabó P, Hajnalová M, Tóth P, Chudomelová M, Bobek P, Kuneš P (T) Prehistoric human impact on lowland open woodland in Central-Eastern Europe (T). World Archaeological Congress (WAC) (2016), Kyoto, Japan.

Jamrichová E.,Hájková P., Petr L., Hájek M. (invited T) Vplyv človeka na zmeny vegetácie a krajiny za posledných 7500 rokov v Západných Karpatoch a severnej časti panónskej nížiny. Conference of Environmental Archaeology (2018), Nitra, Slovakia.

Jamrichová E., Šolcová A., Hájková P., Petr L., Hájek M. (T) Persistence of temperate trees during the Late Glacial period in the Central-East Europe (Czechia and Slovakia). 10th EPPC Conference (2018), Dublin, Ireland.

Courses and workshop participation

Workshop: Soil Micromorphology in General and Archaeological Context, January 2014, Brno, Czech Republic

Workshop: The Theory of Pollen Analysis and Landscape Reconstruction Algorithm, February 2015, Czech Republic.

Wood and Wood charcoal Analysis, February 2015, České Budějovice, Czech Republic.

Summer school: COST-INTIMATE 2nd Training and Research School in Paleoclimatology, June 2013, Baile Tusnad, Romania.

Others

2011: Poster award: Eva Jamrichová, Szabo P, Hédl R, Kuneš P, Pelanková B: The role of management in the establishment of European oakwoods. Frontiers in Historical Ecology, Birmensdorf, Switzerland.