Curriculum vitae

**Vojtěch Abraham**

14th March 1983 in Jablonec nad Nisou, Czech Republic

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**Education:**

• 2001-2003: Environmental Studies, Faculty of Science, Charles University, Prague

• 2003-2006: Master's degree - "Mgr.' awarded on 20 September 2006, Department of Botany, Faculty of Science, Charles University, Prague: Biology specialised in Plant ecology (topic: Natural vegetation and its changes due to colonisation and forestry management in Bohemian Switzerland)

• 2006-2015: Doctoral degree - "PhD." awarded on 6 February 2015, "RNDr.' in 2016: Department of Botany, Faculty of Science, Charles University, Prague: Botany (topic: Palynological synthesis for the Czech Republic)

**Employment:**

• from 2025: Researcher at the Department of Palaeoecology, Botanical Institute of the Czech Academy of Sciences in Brno

• from 2007: Researcher at the Department of Botany, Faculty of Science, Charles University, Prague

• 2019-2021: Researcher at the Department of Vegetation Ecology, Botanical Institute of the Czech Academy of Sciences in Brno

• 2013-2016: Researcher at the Department of Botany, Faculty of Science, University of South Bohemia in České Budějovice

**Field experience abroad:**

Expedition for the protection of the Baikal seal, Lake Baikal, Russia; Paleolimnological research around Lake Ohrid in North Macedonia

**Overseas internships:**

• 2003: Systematic-Phytosociological Institute, University of Bern, Switzerland – course in palaeoecological methods (2 weeks)

• 2004-05: Albrecht-von-Haller-Institute for Plant Sciences, University of Göttingen, Germany – Erasmus programme (6 months)

• 2009: Department of Prehistory and Archaeology, University of Valencia, Spain – doctoral internship (4 months)

• 2024: School of Geography and Sustainable Development, University of St Andrews, United Kingdom – sabbatical (6 months)

**Grant Projects:**

Principal Investigator

• 2007-2009: Czech Quaternary Palynological Database (GA UK, 29407)

Co-Investigator:

• 2008-2012: Vegetation continuity and landscape dynamics. Present state and historical causes of diversity hotspots in a region with fluctuating colonisation (GA AV CR IAAX00050801) – principal investigator Jiří Sádlo

• 2016-2018: Origin of diversity in Central European landscapes: using recent pollen and vegetation models to reconstruct historical biodiversity changes (GAČR 16-10100S) – principal investigator Jan Roleček

• 2017-2019: Hidden human prehistoric activities in the mountains. Archaeological and pollen evidence from the Šumava Mountains (GAČR 17-17909S) - principal investigator Dagmar Dreslerová

• 2019-2021: Long-term history of woodland under human impact, archaeoanthracological synthesis for lowlands in the Czech Republic (GAČR 19-14292S) - principal investigator Jan Novák

Researcher:

• 2007-2011: Long-term development of the cultural landscape of Central Bohemia as a co-evolution of human impacts and natural processes (GA AV CR IAAX00020701) - principal investigator Petr Pokorný

• 2012-2015: Pollen-based land-cover reconstruction – model testing and its implications for Holocene environmental change studies (GAČR P504/12/0649) – principal investigator Petr Kuneš

• 2013-2015: Holocene environmental dynamics in the Hornomoravský úval region: key processes inducing the formation of the recent landscape mosaic (GAČR 13-11193S) – principal investigator Jan Novák

• 2014-2017: HACIER - Human, Agricultural, and Climatic Impact on Ecological Rules: macroecological analysis of palaeobiological datasets (Czech-Norwegian Research Programme 7F14208) – principal investigator Arnošt Leoš Šizling

• 2017-2019: Holocene retrogression of temperate forest ecosystems and environmental collapse in Bohemia during the 1st millennium BC: causes, processes, and consequences for biodiversity (GAČR 17-07851S) - principal investigator Petr Pokorný

• 2019-2021: Land use, social transformations, and woodland in Central European Prehistory. Modelling approaches to human-environment interactions (GAČR 19-20970Y) - principal investigator Jan Kolář

• 2024-2026: Palaeoecological reconstruction of ecosystems as a basis for conservation planning of protected areas (TAČR SS07010074) – principal investigator Jindřich Prach

**Functions and Awards**

• The Czech Learned Society Prize for scientific activity in biology, ecology, and especially for studies on the European yew (Taxus baccata), 2001

• Co-founder and administrator of the national pollen database PALYCZ

• Steward of the global palaeoecological database Neotoma

• Review Editor for the field of palaeoecology in the journal Frontiers in Ecology and Evolution

Publications:

Articles in impact factor journals (from the most recent):

1. **Abraham V.**, Macek M., Tkáč P., Novák D., Pokorný P., Kozáková R., Jamrichová E., Soukupová M. G., & Kolář J. (2023): Pollen anthropogenic indicators revisited using large-scale pollen and archaeological datasets: 12,000 years of human-vegetation interactions in central Europe. – *Preslia* 95: 385–411.
2. **Abraham V.**, Man M., Theuerkauf M., Pokorný P., Bobek P., & Novák J. (2023): Spatially explicit, quantitative reconstruction of past vegetation based on pollen or charcoal data as a tool for autecology of trees. – *Landscape Ecology* 38: 1747–1763.
3. Kolář J., Macek M., Tkáč P., Novák D., & **Abraham V.** (2022): Long-term demographic trends and spatio-temporal distribution of past human activity in Central Europe: Comparison of archaeological and palaeoecological proxies. – *Quaternary Science Reviews* 297: 107834.
4. Macek M., **Abraham V.**, Tkáč P., Novák D., & Kolář J. (2023): The diversity and distribution of introduced plant species reflect 8000 years of settlement history. – *Journal of Ecology* 111: 787–798.
5. **Abraham V.,** Kuneš P., Vild O., Jamrichová E., Plesková Z., Werchan B., Svitavská-Svobodová H., & Roleček J. (2022): Spatial scaling of pollen-plant diversity relationship in landscapes with contrasting diversity patterns. – *Scientific Reports* 12: 17937.
6. **Abraham V.**, Hicks S., Svobodová-Svitavská H., Bozilova E., Panajiotidis S., Filipova-Marinova M., Jensen C. E., Tonkov S., Pidek I. A., Święta-Musznicka J., Zimny M., Kvavadze E., Filbrandt-Czaja A., Hättestrand M., Karlıoğlu Kılıç N., Kosenko J., Nosova M., Severova E., Volkova O., Hallsdóttir M., Kalniņa L., Noryśkiewicz A. M., Noryśkiewicz B., Pardoe H., Christodoulou A., Koff T., Fontana S. L., Alenius T., Isaksson E., Seppä H., Veski S., Pędziszewska A., Weiser M., & Giesecke T. (2021): Patterns in recent and Holocene pollen accumulation rates across Europe – the Pollen Monitoring Programme Database as a tool for vegetation reconstruction. – *Biogeosciences*18: 4511–4534.
7. Roleček J., **Abraham V.**, Vild O., Svitavská H., Jamrichová E., Plesková Z., Pokorný P. & Kuneš P. (2021). Holocene plant diversity dynamics show a distinct biogeographical pattern in temperate Europe. *Journal of Biogeography* 48, 1366–1376. https://doi.org/10.1111/jbi.14082
8. Kozáková R., Bobek P., Dreslerová D., **Abraham, V.** & Svobodová-Svitavská, H. (2021). The prehistory and early history of the Šumava Mountains (Czech Republic) as seen through anthropogenic pollen indicators and charcoal data. *The Holocene* 31, 145–159.
9. Roleček, J., Svitavská Svobodová, H., Jamrichová, E., Dudová, L., Hájková, P., Kletetschka, G., Kuneš, P. & **Abraham 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.
10. Novák J., Kočárová R., Kočár P. & **Abraham, V**., (2021). Long–term history of woodland under human impact, archaeoanthracological synthesis for lowlands in Czech Republic. *Quaternary International*. Anthracology: Charcoal Science in Archaeology and Palaeoecology 593–594, 195–203. https://doi.org/10.1016/j.quaint.2020.10.054
11. Bobek P., Svobodová-Svitavská H., Pokorný P., Šamonil P., Kuneš P., Kozáková R., **Abraham V.**, Klinerová T., Švarcová M.G., Jamrichová E., Krauseová E. & Wild J. (2019) Divergent fire history trajectories in Central European temperate forests revealed a pronounced influence of broadleaved trees on fire dynamics. *Quaternary Science Reviews*, 222, 105865
12. 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 scales. *The Holocene*, 29, 1708–1719.
13. Novák J., **Abraham V.**, Šída P., Pokorný P. (2019). Holocene forest transformations in sandstone landscapes of the Czech Republic: Stand-scale comparison of charcoal and pollen records. *The Holocene*, 29, 1468–1479.
14. Kuneš P., **Abraham V.** & Herben T. (2019) Changing disturbance-diversity relationships in temperate ecosystems over the past 12000 years. *Journal of Ecology*, 107(4), 1678-1688.
15. Novák J., **Abraham V.**, Houfková P., Kočár P., Vaněček Z. & Peška J. (2018). History of the Litovelské Pomoraví woodland (NE Czech Republic): A comparison of archaeo-anthracological, pedoanthracological, and pollen data. *Quaternary International*, 463, 352–362 (Anthracology: Local to Global Significance of Charcoal Science - Part III).
16. Svoboda J., Pokorný P., Horáček I., Sázelová S., **Abraham V.**, Divišová M., Ivanov M., Kozáková R., Novák J., Novák M., Šída P. & Perri A. (2018). Late Glacial and Holocene sequences in rockshelters and adjacent wetlands of Northern Bohemia, Czech Republic: Correlation of environmental and archaeological records. *Quaternary International*, 465, 234–250 (Impacts of gradual and abrupt environmental changes on Late glacial to Middle Holocene cultural changes in Europe).
17. Dreslerová D., Kozáková R., Chuman T., Strouhalová B., **Abraham V.**, Poništiak Š. & Šefrna L. (2018) Settlement activity in later prehistory: invisible in the archaeological record but documented by pollen and sedimentary evidence. *Archaeological and Anthropological Sciences*: 1–18.
18. **Abraham V.**, Novák J., Houfková P., Petr L. & Dudová L. (2017). A Landscape Reconstruction Algorithm and pedoanthracological data reveal Late Holocene woodland history in the lowlands of the NE Czech Republic. *Review of Palaeobotany and Palynology*, 244, 54–64.
19. Novák J., **Abraham V.**, Kočár P., Petr L., Kočárová R., Nováková K., Houfková P., Jankovská V. & Vaněček Z. (2017). Middle- and upper-Holocene woodland history in central Moravia (Czech Republic) reveals biases of pollen and anthracological analysis. *The Holocene*, 27(3), 349–360.
20. Šizling A. L., Pokorný P., Juřičková L., Horáčková J., **Abraham V.**, Šizlingová E., Ložek V., Tjørve E., Tjørve K. M. C. & Kunin W. (2016). Can people change the ecological rules that appear general across space? *Global Ecology and Biogeography*, 25(9), 1072–1084.
21. **Abraham 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 the natural vegetation in the Czech Republic and Slovakia. *Preslia*, 88(4), 409–434.
22. Kuneš P., Svobodová-Svitavská H., Kolář J., Hajnalová M., **Abraham V.**, Macek M., Tkáč P. & Szabó P. (2015). The origin of grasslands in the temperate forest zone of east-central Europe: long-term legacy of climate and human impact. *Quaternary Science Reviews* 116, 15–27.
23. **Abraham V.**, Oušková V. & Kuneš P. (2014). Present-day vegetation helps quantifying past land cover in selected regions of the Czech Republic. *PLoS ONE* 9(6), e100117.
24. Juřičková L., Horsák M., Horáčková J., **Abraham V.** & Ložek V. (2014). Patterns of land-snail succession in Central Europe over the last 15 000 years: main changes along environmental, spatial and temporal gradients. *Quaternary Science Reviews* 93, 155–166.
25. **Abraham V.** & Kozáková R. (2012). Relative pollen productivity estimates in the modern agricultural landscape of Central Bohemia (Czech Republic). *Review of Palaeobotany and Palynology*, 179, 1–12.
26. Daneck H., **Abraham V.**, Fér T. & Marhold, K. (2011). Phylogeography of Lonicera nigra in Central Europe inferred from molecular and pollen evidence. *Preslia*, 83(2), 237–257.
27. Kuneš, P., **Abraham, V.**, Kovářík, O. & Kopecký, M. (2009). Czech Quaternary Palynological Database (PALYCZ): review and basic statistics of the data. *Preslia*, 81(3), 209–238.

**Chapters in books, popular science and other publications:**

1. **Abraham V.** & Pokorný P. (2025): Vývoj lesů na rekonstrukčních mapách. In *Hinterland. Archeologie severočeských pískovcových krajin*, pp. 121–134. – Kodudek, Praha.
2. **Abraham V.** (2024): Šíření a ukládání pylu v krajině. – Živa 251–254.
3. Pokorný P. & **Abraham V.** (2024): Elbsandstein- und Lausitzer Gebirge, Polzengebiet und Jeschkengebirge. In Feeser I., Dörfler W., Rösch M., Jahns S., Wolters S., & Bittmann F. (eds.), *Vegetationsgeschichte der Landschaften in Deutschland*, pp. 421–428. – Springer, Berlin, Heidelberg.
4. **Abraham V.** (2021): Od lísky k buku. – *Přírodovědci* 20–21.
5. Roleček J., **Abraham V.**, & Horsák M. (2021): Pestrá minulost druhové rozmanitosti. – *Časopis Vesmír* 100:.
6. Pokorný P. & **Abraham V.** (2021): Skrytější než jehla v kupce sena. – *Lesnická práce* 38–41.
7. Kozáková R., **Abraham V.**, Bobek P., Dreslerová D., & Svitavska-Svobodova H. (2020): Divoká, ale ne tak docela... Šumava v mladém pravěku. – *Časopis Šumava* - zvláštní příloha 4–5.
8. Dreslerová D., Kozáková R., Chuman T., Strouhalová B., **Abraham V.**, Poništiak Š., & Šefrna L. (2019): Settlement activity in later prehistory: invisible in the archaeological record but documented by pollen and sedimentary evidence. – *Archaeol Anthropol Sci* 11: 1683–1700.
9. Kuneš P. & **Abraham V.** (2017). History of Czech Vegetation Since the Late Pleistocene. In: Chytrý M., Danihelka J., Kaplan Z., & Pyšek P. (Eds) *Flora and Vegetation of the Czech Republic*. 193–227. Cham: Springer International Publishing. ISBN 978-3-319-63180-6.
10. Štor T., Sádlo J., **Abraham V.** & Martínek K. (2016). Změny fluviálního stylu během svrchního pleistocénu a holocénu na příkladu nivy řeky Ploučnice v severních Čechách. *Bulletin of Geosciences*, 49, 123–127.
11. Dreslerová D., Waldhauser J., **Abraham V.**, Kočár P., Křivánek R., Meduna P. & Sádlo J. (2013). Bezdězsko - Dokesko v pravěku a laténské sídliště v Oknech [The Bezděz – Doksy region (Northern Bohemia) in prehistory and the La Tène settlement at Okna]. *Archeologické rozhledy*, 65(3), pp 535–573.
12. Pokorný P., Novák J., Šída P., Divišová M., Kozáková R. & **Abraham V**. (2017). I. Vývoj vegetace severočeských pískovcových území od pozdního glaciálu po střední holocén. In: Svoboda, J. (Ed) *Mezolit severních Čech 2*. 11–37. Brno: Archeologický ústav AV ČR. (Dolnověstonické studie; 22). ISBN 978-80-7524-005-7.
13. Sádlo J., Meduna P., **Abraham V.**, Petřík P., Novák J., Pokorný P. & Svitavská-Svobodová H. (2015). Ctnostná jest, že ji nikdo nechtěl. *Vesmír*, 94(7), 424–430.
14. **Abraham V.** & Pokorný P. (2008). Vegetační změny v Českém Švýcarsku jako důsledek lesnického hospodaření – pokus o kvantitativní rekonstrukci. In: Beneš, J. & Pokorný, P. (Eds) *Bioarchaeologie v České Republice*. 443–470. Praha: Archeologický ústav AV ČR. ISBN 978-80-7394-026-3.
15. **Abraham V.** (2001). Tis červený na lokalitě Pod Dračí skálou. *Živa*, 2001(6), 281.

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