



## Adam Kantor

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### WORK EXPERIENCE

#### Postdoctoral researcher

*Plant Science and Biodiversity Centre, Slovak Academy of Sciences* [ 9/2023 – Current ]

City: Bratislava

Country: Slovakia

#### Field surveyor in agricultural research

*EFTAS Fernerkundung Technologietransfer GmbH, Münster, DE* [ 4/2023 – 6/2023 ]

Country: Czechia

Website: <https://wikis.ec.europa.eu/pages/viewpage.action?pageId=25560696>

I worked at a position of freelance surveyor for the European Monitoring of Biodiversity in Agricultural Landscapes (EMBAL) project being coordinated by EFTAS. I participated in a training in which I was taught how to determine and record specified parameters in the field and how to subsequently post-process and deliver the collected data using QGIS software. I did the field survey on assigned plots in the eastern part of the Czech Republic.

EMBAL is an EU funded project which aims to analyze the land cover and land use in the agricultural landscapes of all EU member states. During the project, freelance contractors were employed to conduct field survey at the arable land and meadows within assigned plots, on which they were commissioned to monitor and record various parameters regarding e.g. agricultural management, plant biodiversity richness, pollination potential related to the variability of flowering species, habitat classification, presence of landscape elements, and overall nature value. For more information on the project visit the link specified below.

#### Plant distribution data processor

*Pladias project - Mgr. Zdeněk Kaplan, Ph.D. (Institute of Botany, Czech Academy of Sciences)* [ 6/2020 – 12/2020 ]

Country: Czechia

I worked on processing of plant distribution data for the project Pladias (Database of the Czech Flora and Vegetation). I was employed as a contractor to translate and retype information about plant distribution extracted from literature excerpts or collections of herbarium specimens. Based on available information, I needed to identify the locality, the authors and date of collection of the plant samples, providing its localization in Czech republic with the highest possible precision. I filled the data into digital forms, which were later used to generate distribution maps of czech flora available on pladias.cz and published in the series in the journal Preslia.

In 2016-2017, I also participated in the project Pladias without contract. I collaborated on producing of distribution map of the endangered orchid species *Dactylorhiza incarnata*, which involved revision of identification of specimens in the major herbarium collections in the Czech republic, and again, subsequent translation and procession of data. The distribution map was published in Kaplan et al., Preslia 89: 333–439, 2017, where I am listed as a co-author of the map of *Dactylorhiza incarnata*.

## **Inventory controller**

**LIMA úklid servis Olomouc s.r.o.** [ 9/2016 – 11/2016 ]

City: Olomouc

Country: Czechia

I did an inventory control in Olomouc University Hospital. My job was to communicate with head nurses and to coordinate the physical monitoring of the inventory components at particular departments of the hospital.

## **EDUCATION AND TRAINING**

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### **Doctor of Philosophy**

**Comenius University in Bratislava, Faculty of Science** [ 9/2019 – 8/2023 ]

City: Bratislava

Country: Slovakia

Field(s) of study: Botany

Thesis: Evolution of members of the genus *Cardamine* L. from the Anatolia-Caucasus region and the Balkan Peninsula

Plant Science and Biodiversity Centre, Slovak Academy of Sciences represented an external schooling institution in Slovakia covering the study at the Comenius University in Bratislava. Additionally, the doctoral study was realized under Cotutelle programme, being supervised by two tutors from two scientific institutions located in two countries: Mgr. Judita Zozomová, PhD. (Plant Science and Biodiversity Centre, SAS, Bratislava, Slovakia) and Mgr. Marek Slovák, PhD. (Department of Botany, Charles University, Prague, Czechia).

### **Doctor of Philosophy**

**Charles University in Prague, Faculty of Science** [ 9/2020 – 8/2023 ]

City: Prague

Country: Czechia

Field(s) of study: Botany

Thesis: Evolution of members of the genus *Cardamine* L. from the Anatolia-Caucasus region and the Balkan Peninsula

The doctoral study was realized under Cotutelle programme (see the notes under the doctoral study at the Comenius University for more details).

### **Master's degree**

**Palacký University Olomouc, Faculty of Science** [ 2017 – 2019 ]

City: Olomouc

Country: Czechia

Field(s) of study: Botany

### **Bachelor's degree**

**Palacký University Olomouc, Faculty of Science** [ 2013 – 2017 ]

City: Olomouc

Country: Czechia

Field(s) of study: Biology and Ecology

### **C1 (CAE) English state exam**

**Milan Hodža Bilingual Grammar School** [ 2008 – 2013 ]

City: Sučany

Country: Slovakia

Field(s) of study: Bilingual English-Slovak high school

## LANGUAGE SKILLS

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Mother tongue(s): **Slovak** | **Czech**

**Other language(s):**

**English**

**LISTENING C1 READING C1 WRITING C1**

**SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1**

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## ORGANISATIONAL SKILLS

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### Field sampling

Experience with independent work, collection of plant material and car driving abroad, covering Türkiye, Central and Southern Europe (Albania, Austria, Bosnia and Herzegovina, Bulgaria, France, Germany, Greece, Hungary, Italy, Kosovo, Montenegro, North Macedonia, Poland, Serbia, Switzerland, Türkiye).

### Lab work

Experience with generating, processing and analysis of various types of data - morphometric, flow-cytometric, molecular analyses (DNA extraction, PCR, preparation of libraries based on next-generation sequencing).

## DIGITAL SKILLS

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Microsoft Office / Flomax / Adobe Illustrator / Adobe Photoshop / NCSS / R - Statistical Software / Geneious

## DRIVING LICENCE

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**Driving Licence:** AM

**Driving Licence:** B1

**Driving Licence:** B

## PUBLICATIONS

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### [Evolution of hygrophytic plant species in the Anatolia-Caucasus region: insights from phylogenomic analyses of Cardamine perennials](#)

[2023]

Kantor A. et al., 2023, Annals of Botany 131: 585-600

### **Balkan-Anatolian biogeographic links and the evolutionary significance of Anatolian mountains, as evidenced by Cardamine (Brassicaceae)**

[2023]

Kantor A. et al., Taxon, accepted for publication in September 2023

### [Allele sorting as a novel approach to resolving the origin of allotetraploids using Hyb-Seq data: A case study of the Balkan mountain endemic Cardamine barbaraeoides](#)

[2021]

Šlenker M. et al., 2021, Frontiers in Plant Science 12:659275

## CONFERENCES AND SEMINARS

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### Students Biosystematic Meeting

[ Skalica, Slovakia, 11/11/2022 – 13/11/2022 ]

Presentation: Birth of polyploids amidst the majority diploid cytotype: which mechanisms make it possible?

## **Student Conference of Plant Biology**

[ Charles University, Prague, Czechia, 20/9/2022 – 22/9/2022 ]

Poster: The joys and pitfalls of observing the plant-pollinator interactions in the field experiment

Link: <https://plantbioconference.wordpress.com/>

## **2nd International Conference on Botany and Mycology**

[ Sofia, Bulgaria [virtual], 19/9/2022 – 20/9/2022 ]

Presentation: Phylogenomic studies of Cardamine (Brassicaceae) provide new insights into the evolution and phylogeographic history of the Balkan mountain flora

Link: <https://icbotmyco.com/archive/>

## **Botany 2021**

[ [virtual], 18/7/2021 – 23/7/2021 ]

Poster: Evolution of Cardamine (Brassicaceae) perennials in Southwestern Asia and their phylogenetic relationships to related European polyploid species complexes

Link: <http://2021.botanyconference.org/engine/search/index.php?func=detail&aid=547>

## **Student Scientific Conference of Comenius University**

[ Bratislava, Slovakia, 21/4/2021 ]

Presentation: Phylogenetic relationships of members of the genus Cardamine from the Balkan Peninsula

Link: <https://fns.uniba.sk/svk/>

## **PROJECTS**

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### **APVV-22-0365 (Slovak Research and Development Agency)**

[ 2023 – 2027 ]

Topic: The role of reproductive systems, hybridization, and symbiosis in the evolution and long-term survival of vascular plants in a rocky environment

Position: Internal researcher

### **APVV-21-0044 (Slovak Research and Development Agency)**

[ 2022 – 2026 ]

Topic: Reticulate or divergent evolution? Resolving processes behind the high species richness and endemism in Brassicaceae genera

Position: Internal researcher

### **Doktograf (Slovak Academy of Sciences)**

[ 1/1/2022 – 31/12/2022 ]

Topic: The impact of Quaternary climatic changes and introgression on plant diversity in the Balkans: findings based on phylogeographic research of the mountain species *Cardamine acris*

Position: Principal investigator in the PhD student project provided by Slovak Academy of Sciences in Bratislava

### **START project (Charles University)**

[ 1/4/2021 – 31/3/2023 ]

Topic: Birth of polyploids amidst the majority diploid cytotype: which mechanisms make it possible?

Position: Internal researcher in the international team of doctoral students in the project provided by Charles University, Prague.

## **GAUK project (Charles University)**

[ 2021 – Current ]

Topic: Evolutionary relationships within the recently diversified genus *Oritrophium*: are we witnessing speciation continuum?

Position: Internal researcher in the PhD student project provided by Charles University, Prague. I am responsible for the morphometric analyses.

## **NETWORKS AND MEMBERSHIPS**

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### **Slovak Botanical Society**

[ Bratislava, Slovakia, 2019 – Current ]

Active membership - I presented at meetings of the society and organized a public botanical excursion.

## **VOLUNTEERING**

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### **Scouting Slovakia**

[ 2010 – Current ]

Volunteering and organization of activities for children.