# Robert Veres

**Date of birth:** 23/06/1995 | **Place of birth:** Cluj-Napoca, Romania

**Nationality:** Hungarian, Romanian | **Gender:** Male | **Phone number:** (+40) 747205360 (Mobile)

**Email address:** rober.veres@ubbcluj.com | **Email address:** veresrobi18@gmail.com

**Skype:** veres.robert31 | **Address:** Str. Republicii, rn. 44, 400015, Cluj-Napoca, Romania (Work)

## WORK EXPERIENCE

### FIELD EXERCISES – ROMANIA

Different field exercises during my Bsc, in the Danube Delta, in the Carpathians and in Doda Piliin ("Apuseni" National Park, Romania).

Biogeography field practice in Turkey and Albania.

### DATABASE ADMINISTRATOR – TRANSDIPTERA WORK GROUP – 01/10/2015 – 01/07/2017 – CLUJ-NAPOCA, ROMANIA

I worked a database manager for the TransDiptera work group at the University during Bsc.

### PROFESSIONAL TRAINING – JORDÁN FERENC – 01/08/2019 – 31/08/2019 – TIHANY, HUNGARY

I attended professional training in the Balaton Limnological Institute in Tihany for a month. During the training I studied machine learning procedures and their application in the field of ecology. The training was supervision by the Institute Director, Jordán Ferenc.

### UNIVERSITY TEACHING ASSISTANT – UNIVERSITY OF BABEȘ-BOLYAI – 01/09/2019 – Current – CLUJ-NAPOCA, ROMANIA

I hold Bio-mathematics, Biostatistics and Ecology internships and seminars as a teaching assistant at University of Babeș-Bolyai. Throughout these seminars, I help students to learn the basics of programming and usage of the R statistical environment, and different ways they can apply these methods in an ecological context.

### MODELLING – UNIVERSITY OF HELSINKI – 02/11/2020 – 06/11/2020 – HELSINKI, FINLAND

I took part in an advanced series of lectures organized by the University of Helsinki, during which I learned the theoretical basics of Hmsc (Hierarchical Modeling of Species Communities) and its applications in the R statistical software.

### GUEST RESEARCHER – SENCKENBERG SOCIETY FOR NATURE RESEARCH – 01/03/2021 – 31/12/2021 – FRANKFURT, GERMANY

My work as a guest researcher at Senckenberg involved performing library preparation for genetical material sequencing and bioinformatics analyses.

### GUEST RESEARCHER – SENCKENBERG SOCIETY FOR NATURE RESEARCH – 11/04/2022 – 31/12/2022 – FRANKFURT, GERMANY

My work as a guest researcher at Senckenberg involved bioinformatics analyses on soil invertebrate data as well as creating and managing the team's Kraken2 genetic sequence databases.

**GUEST RESEARCHER – SENCKENBERG SOCIETY FOR NATURE RESEARCH** – 01/01/2023 – 31/12/2023 – FRANKFURT, GERMANY

My work as a guest researcher at Senckenberg involved bioinformatics analyses on soil invertebrate data as well as creating and managing the team's Kraken2 genetic sequence databases. I also started working on an analysis which involves the whole genome of the gall inducing wasp species *Diplolepis Rosae.* The aim of this last study is to uncover the process behind gall formation.

**GUEST RESEARCHER – SENCKENBERG SOCIETY FOR NATURE RESEARCH** – 01/01/2024 – 31/12/2024 – FRANKFURT, GERMANY

My work as a guest researcher at Senckenberg involved bioinformatics analyses on soil invertebrate data as well as creating and managing the team's Kraken2 genetic sequence databases. I am also working on different analyses which involves the whole genome of the gall inducing wasp species *Diplolepis Rosae.* The aim of this last study is to uncover the process behind gall formation.

**UNIVERSITY TEACHING ASSISTANT – UNIVERSITY OF BABEȘ-BOLYAI** – 01/09/2023 – Current – CLUJ-NAPOCA, ROMANIA

I hold Bioinformatics internships and seminars as a teaching assistant at University of Babeș-Bolyai. Throughout these seminars, I help students to learn basic and advanced usage of Linux (Ubuntu), including BASH programming. I also teach modern bioinformatical analysis techniques, including the usage of programs like R statistical environment, NCBI BLAST, Kraken2 and Anvi'o 7.

## EDUCATION AND TRAINING

01/10/2014 – 01/07/2017 Cluj-Napoca, Romania
**BIOLOGIST** University of Babeș-Bolyai, Faculty of Biology and Geology, Biology Section

**Field of study** Biology │ **Level in EQF** EQF level 6

01/10/2017 – 02/07/2019 Cluj-Napoca, Romania
**BIOLOGIST AND ECOLOGIST** University of Babeș-Bolyai, Faculty of Biology and Geology, Terrestrial and Aquatic Ecology Section

**Field of study** Environmental sciences , Statistics │ **Level in EQF** EQF level 7

01/10/2019 – CURRENT Cluj-Napoca, Romania
**BIOLOGIST AND ECOLOGIST** University of Babeș-Bolyai, Doctoral School, Integrated Biology Section

**Field of study** Environmental sciences , Statistics │ **Level in EQF** EQF level 8

17/04/2023 – 21/04/2023 Berlin, Germany
**ENVIRONMENTAL METAGENOMICS** Physalia Courses

Metagenomics is a widely used tool for the analysis of microbial communities as it gives access to the genomes of uncultured microorganisms. Particularly in complex ecosystems (e.g. soil), currently uncultured taxa typically comprise a large fraction of the microbial communities. Metagenomics has many benefits compared to amplicon sequencing, as it gives information not only on the taxonomic diversity but also on the functional composition of microbial communities. Recent bioinformatic developments now allow the recovery of metagenome-assembled genomes (MAGs) at an incredible depth.

During this one week course I learned state-of-the-art bioinformatic approaches to analyse metagenomic data. This covered both read- and assembly-based methods, focusing on the strenght of each of these methods depending on the research question. I used data from both short- (e.g. Illumina) and long-read (e.g. Nanopore) sequencing platforms, as it improves dramatically MAG assembling and binning compared to short-read-only methods.

**Website** https://www.physalia-courses.org/ │ **Field of study** Environmental metagenomics

**INTRODUCTION TO PYTHON PROGRAMMING FOR BIOLOGISTS** Physalia Courses

Throughout the course, I learned python programming concepts and practical applications, in the field of bioinformatics.

**Website** https://www.physalia-courses.org/ ｜ **Field of study** Python Programming for Biologists

## LANGUAGE SKILLS

Mother tongue(s):  **HUNGARIAN** ｜ **ROMANIAN**

Other language(s):

|  | UNDERSTANDING | | SPEAKING | | WRITING |
|---|---|---|---|---|---|
|  | Listening | Reading | Spoken production | Spoken interaction |  |
| **ENGLISH** | C1 | C1 | C1 | C1 | C1 |

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

## SKILLS

R CRAN ｜ SQL ｜ Python ｜ Microsoft Office package: Microsoft Word, Excel, PowerPoint, Access ｜ Linux (Terminal Commands, Bash/Shell)

## PUBLICATIONS

2018
### New faunistic records of the genus Limonia Meigen (Limoniidae, Diptera, Insecta) from the Balkan region

Kolcsár L., Oláh T., Veres R., Török E., Keresztes L., (2018) New faunistic records of the genus Limonia Meigen (Limoniidae, Diptera, Insecta) from the Balkan region - Entomologica Romanica 21: 45 - 59, DOI: 10.24193/entomolrom. 21

2020
### Increasing network stability towards large food webs

Veres, R., & Laszló, Z. (2020). Increasing network stability towards large food webs. doi: doi.org/10.1101/2020.07.02.183723

2023
### MetaInvert: A new soil invertebrate genome resource provides insights into below-ground biodiversity and evolution

Collins, G., Schneider, C., Boštjančić, L. L., Burkhardt, U., Christian, A., Decker, P., Ebersberger, I., Hohberg, K., Lecompte, O., Merges, D., Muelbaier, H., Romahn, J., Römbke, J., Rutz, C., Schmelz, R., Schmidt, A., Theissinger, K., Veres, R., Lehmitz, R., … Balint, M. (2023). The MetaInvert soil invertebrate genome resource provides insights into below-ground biodiversity and evolution. Commun Biol 6, 1241 (2023). https://doi.org/10.1038/s42003-023-05621-4

2023
### No evidence for phylogenetic structure or environmental filtering of springtail microbiomes

Veres R., Romahn J., Schneider C., & Balint M. (2023). No evidence for phylogenetic structure or environmental filtering of springtail microbiomes. https://submit.biorxiv.org/submission/queue?queueName=papers_under_review

2025
### Checklist of the genus Cortinarius in Romania: taxonomic and distributional insights

E. Szaboó, A.l. Deó Nes, R. Veres, B. Dima, L. Keresztes (2025). Checklist of the genus Cortinarius in Romania: taxonomic and distributional insights, Studia Universitatis Babeş-bolyai Biologia, Vol. 70, Issue 2, p. 27-53, https://doi.org/10.24193/subbbiol.2025.2.03

## CONFERENCES AND SEMINARS

08/04/2016 – 09/04/2016 Romania, Cluj-Napoca
**Veres R., Oláh T., Kolcsár L., Keresztes L.: TransDiptera Online Database: a digital system for managing faunistic data**

17. Cluj Biologist Days

31/03/2017 – 01/04/2017 Romania, Cluj-Napoca
**Veres R., Keresztes L., Kolcsár L.: Regional analysis of the crane flies (Tipulidae, Diptera) fauna in the Romanian Carpathians**

18. Cluj Biologist Days

12/04/2019 – 14/04/2019 Romania, Cluj-Napoca
**Veres R., Laszló Z: On the stability of large food webs**

20. Cluj Biologist Days

23/05/2019 – 26/05/2019 Romania, Cluj-Napoca
**Veres R., Laszló Z: On the stability of large food webs**

ETDK conference, 3rd place

03/05/2021 – 06/05/2021 Romania, Cluj-Napoca
**Veres R., Laszló Z: On the stability of large food webs**

OTDK conference (the next stage of the ETDK conference), 3rd place

19/11/2021 – 20/11/2021 Romania, Cluj-Napoca
**Modeling the global distribution of Diplolepis rosae (Hymenoptera: Cynipidae)**

BioTA 2021 conference

17/07/2022 – 22/07/2022 Helsinki, Finland
**Co-occurrence models for global distribution of Robin's pincushion (Diplolepisrosae) based on citizen science and open-source environmental data**

XXVI International Congress of Entomology

04/12/2025 – 05/12/2025 Online
**Distribution and prevalence of Diplolepis (Hymenoptera: Diplolepididae) induced galls on wild roses in Romania: insights from a four-year survey**

The International Society of Hymenopterists, Hymathon 2025: A 24 hour marathon of Hymenoptera!

*Signature*

19/12/2025