



Faculty of Environmental Sciences CZU Prague



Faculty of
Environmental Sciences

University Full of Life

fzp.czu.cz

Michael Komárek

Czech University of Life Sciences (CZU)

FOUNDED 1906

- 3rd largest university in Prague
- More than 20 000 students @ more than 150 study programmes at BSc, MSc, and PhD levels, 1 700 employees (academic, administrative & technical staff)
- Six faculties of agricultural and life sciences education and research
- WWW.CZU.CZ



Czech University of Life Sciences (CZU)



Faculty of
Environmental Sciences



Faculty of Forestry
and Wood Sciences



Faculty of Economics
and Management



Faculty of
Engineering



Faculty of Tropical
AgriSciences



Faculty of Agrobiolgy,
Food and Natural Resources

Faculty of Environmental Sciences (FZP)

Dean: Prof. Michael Komárek

- About 2800 students
- Students from 50 countries
- Six departments dedicated to education and research in environmental sciences
- www.fzp.czu.cz



Faculty of Environmental Sciences (FZP)

Priority research areas

- community ecology,
- climate change and hydrology,
- biodiversity conservation,
- protected area management,
- biotechnical land consolidation in the landscape,
- water resource management,
- environmental chemistry and remediation,
- landscape planning, incl. EIA/SEA,
- spatial planning



„We explore global environmental issues with an emphasis on applied outcomes.“

Faculty of Environmental Sciences (FZP)



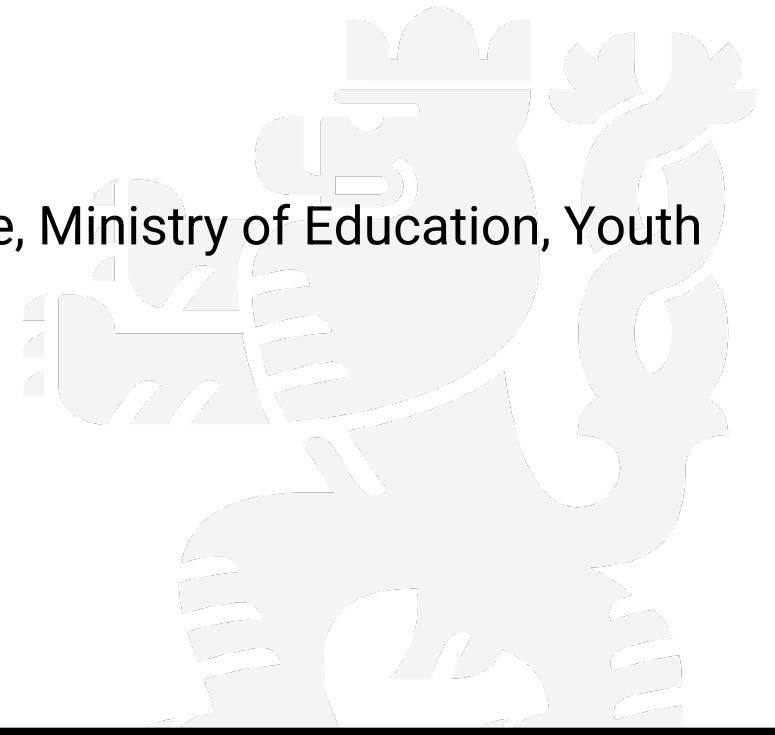
Research activities

- **National funding programmes**

TAČR, GAČR, Ministry of the Environment, Ministry of Agriculture, Ministry of Education, Youth and Sport, etc.

- **International programmes**

H2020, Europe, Interreg, COST, ERC, MSCA, ESA, etc.

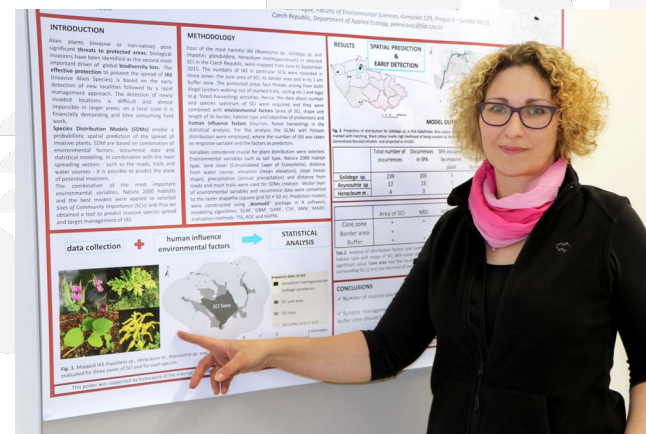


For more information about FES CZU projects, visit: <https://www.fzp.czu.cz/en/r-9411-projects-and-partnerships>



Elimination of invasive plant species in practice

The goal of the project is the **monitoring and elimination of invasive plant species in selected locations** according to the certified methodologies of the Ministry of the Environment of the Czech Republic. Monitoring of the threats to localities of interest by invasive non-native species, elimination of these species and evaluation of the **effectiveness of interventions will be carried out at the locations of the large-scale protected areas of the NP České Švýcarsko and PLA Labské Pískovce, NP Podyjí and NP and PLA Šumava.**



PI Kateřina Berchová-Bímová





T A
Č R

Centre for landscape and biodiversity



The main goal of the DivLand project is to **create and develop a research centre**, which will generate outputs useful for both strategic decision-making **in the field of nature conservation, landscape and biodiversity** and for solving ongoing problems in landscape and its ecosystems.

WG A - RESILIENT LANDSCAPE - CZU as a coordinator of the topic A

WG B - FOREST ECOSYSTEMS - CZU as a partner

WG C - AGROSYSTEMS & SOIL - CZU as a partner

WG D - INVASIONS - CZU as a partner

WG E - FUNCTIONAL BIODIVERSITY - CZU as a partner

WG F - SYNTHESIS



**PI Kateřina Černý
Pixová**

<https://divland.cz/en/>

Czech University of Life Sciences

Faculty of Environmental Sciences



BEAST
Project

Biodiversity dynamics across a continuum of space, time, and their scales

*The objective of BEAST is to **map and interpolate temporal biodiversity change in Europe, the US, and the world across continuous space, time, and their grains**, from locations as small as 1 m to countries and continents over the last ca 40 years, for birds, plants, and butterflies. To do this, we will combine data from local time series with high-quality gridded atlas data from countries and continents. We will use a new cross-scale model to interpolate biodiversity change jointly across space and time, and across the data gaps.*

<https://petrkeil.github.io/>



PI Petr Keil



GRACE
Project

GRASSland Communities Experiment (GRACE): 300 years of insight from a large-scale natural experiment

*GRACE is a joint grant from the **Austrian FWF and Czech GACR**, with co-PIs Adam Clark (University of Graz) and Petr Keil (CZU, Prague), and cooperation partners Franz Essl at Uni. Vienna and Hana Skokanová at VUKOZ, Brno. Other external collaborators include Helge Bruelheide and Ute Jandt at Uni. Halle (Germany), Stefan Dullinger at Uni. Vienna, and Milan Chytrý at Masaryk University Brno, as well as the European Vegetation Archive (EVA) and its ReSurveyEurope initiatives.*

The research focuses on tracking the interactive dynamics of landscapes and grassland plant communities based on the natural experiment arising from differences in landscape structure along the Austrian-Czech border region.

<https://petrkeil.github.io/>



Earth
Bridge

Building Bridges between Earth observation and Environmental Sciences

EarthBridge aims to substantially increase the interdisciplinary research capacity of CZU in the field of environmental sensing and EO and to contribute to the further development and use of environmental EO tools by a wider community.



PI Vítězslav Moudrý

www.earthbridge.eu

Czech University of Life Sciences



Senior and junior research exchanges



Scientific training



Project management training



Summer school



A joint study programme



A synthesis project for early-career researchers



Involvement of regional/national institutions

Faculty of Environmental Sciences

Thank you for you attention

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