

**Curriculum vitae**  
**&**  
**List of publications**

## PERSONAL INFORMATION

Jan Titěra

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**Genders:** Man | **Date of birth:** 03/01/1992 | **Nationality:** Czech

## WORK EXPERIENCE

### **01/01/2023 – Present; Grassland researcher**

Technical University of Liberec

Studentská 1402/2, 46117 Liberec (Czechia)

Professional, scientific and technical activities

Lectures for students

### **17/08/2018–31/12/2022; Grassland researcher**

Crop Research Institute

Rolnická 6, 46001 Liberec (Czechia)

Professional, scientific and technical activities

## EDUCATION

### **01/10/2016–Present; Ph.D.**

Czech University of Life Sciences, Prague (Czechia)

Ecology

### **09/2014–03/06/2016; Ing.**

Czech University of Life Sciences, Prague (Czechia)

Applied ecology

### **30/09/2011–10/06/2014; Bc.**

Czech University of Life Sciences, Prague (Czechia)

Applied ecology

## TRAININGS AND COURSES

### **15/04/2022– 15/09/2022; Student internship (Pwllpeiran Upland Research Centre)**

Aberystwyth (Wales, Great Britain)

Studying of the scientific articles published in the context of the grassland research in Wales

Joining a plant breeding team (breeding process of the plants, planting seeds, cutting plants in the greenhouse, plant selection, fertilization of permanent plots)

Collecting of botanical data in the long-term sheep grazing experiment and in the CSP experiment

Processing and analyses of the botanical data

### **05/08/2021– 25/02/2022; Student internship (Raumberg-Gumpenstein institute)**

Raumberg (Austria)

Assistance with the data preparation in the SatGrass project (modelling yield dynamics and quality parameters of the forage from the grasslands in Austria by using satellite data)  
Data analyses from the long-term grasslands experiments

**01/08/2020 – 04/05/2021; DBU (Deutsche Bundesstiftung Umwelt); Student internship (Technical University Dresden, International Institute Zittau)**

Zittau (Germany)

Soil analysis in laboratory (using spectroscopy) – to find available nutrients for the plants from different grasslands experiments

Work on the international projects

Grasslands research work (preparation of scientific articles)

**06/02/2020–26/02/2020; 22. International winter language school from German**

Osnabrück (Germany)

Intensive language course on the level B1 - certificate of successful completion (final mark 1.7)

Speaking with small groups (max. 10 people); Grammar practicing; Listening exercises; Individual work on various topics (music, policy, geography); Presentation of selected topics to other students

**15/04/2019–15/09/2019; Student internship (Georg-August-Universität Göttingen)**

Göttingen (Germany)

Work in long-term cattle grazing grassland experiment (Reliehausen); Ingrowth cores methods (net root mass productivity, total root mass); Greenhouse testing of phenotypic adaptations of *Dactylis glomerata* and *Festuca rubra* species under different grazing intensities and different patches types

**27/02/2019–28/02/2019; Scientific writing**

Liberec (Czechia)

Structure of scientific article; How to write different parts of article; Which mistakes to avoid; Ethical codex of scientific writing; How are scientific articles evaluated.

**27/01/2019–03/02/2019; CANOCO course**

České Budějovice (Czechia)

Lectures about multivariate data analysis; Learning how to use program CANOCO; Scientific data evaluating in CANOCO; Presenting of achieved results.

**01/10/2018–04/10/2018; Staff training - Set up and management of field trials to determine ecosystem services**

BOKU (University of Natural Resources and Life Sciences), Vienna (Austria)

Trial set up and statistics; Cover crops and their hidden halves; Nutrients mobilisation and rhizosphere processes; Soil fauna; Plant pathogens.

**03/09/2018–14/09/2018; Summer course on Bioeconomy**

University of Hohenheim, Stuttgart (Germany)

Complete life cycle of bio-based products: bioenergy, biomaterials, food technology as well as socioeconomic and ethical aspects of a future economy.

## **PERSONAL SKILLS**

Mother tongue(s): Czech

Foreign language(s): English: B2; German: B1+

## **PUBLICATIONS**

### **Scientific publications with IF**

Pavlu L., Poetsch E.M., Pavlu V.V., Titěra J., Hejzman M., Gaisler J., Hopkins A., 2022. The Admont Grassland Experiment: 70 years of fertilizer application and its effects on soil and vegetation properties in an alluvial meadow managed under a three-cut regime. *Science of the Total Environment*. 808, 152081. <https://doi.org/10.1016/j.scitotenv.2021.152081>

Swacha G., Meserszmit M., Pavlu L., Pavlu V.V., Kajzrová K., Kassahun T., Raduła M.W., Titěra J., Kacki Z., 2023. Drivers of species-specific contributions to the total live aboveground plant biomass in Central European semi-natural hay grasslands. *Ecological Indicators*. 146, 109740. <https://doi.org/10.1016/j.ecolind.2022.109740>

Titěra J., Pavlu L., Pavlu V.V., Blažek P. What is a suitable management for *Typha latifolia* control in wet meadows? *Applied Vegetation Science*. Under review.

Titěra J., Pavlu V.V., Pavlu L., Hejzman M., Gaisler J., Schellberg J., 2020. Response of grassland vegetation composition to different fertilizer treatments recorded over ten years following 64 years of fertilizer applications in the Rengen Grassland Experiment. *Applied Vegetation Science*. 23, 417-427. <https://doi.org/10.1111/avsc.12499>.

### **Scientific publications without IF**

Titěra J., Haase H., Kassahun T., Nwaogu Ch., Pavlu K., Kändler M., Pavlu L., Gaisler J., Paška F., Heidenreich H., Liepelt G., Jonášová I., Pavlu V., 2018. Divergrass- A cross border project to promote sustainable management of grasslands. *ACC Journal*. 24, 61-78. ISSN 1803-9782.

### **Book publications**

Pavlu V., Kacki Z., Kajzrová K., Meserszmit M., Pavlu L., Stefanska-Krzaczek E., Swacha G., Titěra J., Wasiak P., 2021. Biomasa travních porostů jako obnovitelný zdroj energie. Biodiverzita-Biomasa-Bioplyn/Biomasa užitkův zelených jako odnawialne źródło energii Bioróżnorodność-Biomasa-Biogaz. Výzkumný ústav rostlinné výroby, v.v.i.. Praha. 20 pp. ISBN: 978-80-7427-354-4.

Pavlu, L., Gaisler, J., Pavlu, V., Haase, H., Kändler, M., Titěra, J., Pavlu, K., Kassahun Teka, T. & Blechinger, K., 2019. Obhospodařování travních porostů pro podporu biodiverzity v přeshraniční oblasti Liberec-Žitava. Výzkumný ústav rostlinné výroby, v.v.i., Praha. 72 pp. ISBN: 978-80-7427-320-9.

Pavlů, L., Gaisler, J., Pavlů, V., Haase, H., Titěra, J., Pavlů, K., Kassahun Teka, T. & Blechinger, K., 2019. Bewirtschaftung von Grasland zur Förderung der Artenvielfalt im Grenzgebiet Zittau-Liberec. Výzkumný ústav rostlinné výroby, v.v.i., Praha. 76 pp. ISBN: 978-80-7427-320-6.

## Projects participation

Principal investigator, Small grant project (No. 30021/963-43/0) by Deutsche Bundesstiftung Umwelt (DBU).

Principal investigator, University grant project (IGA): Dynamics of nutrients in plants and soil and their relationship with plant species composition under long-term management of grasslands.

Co-investigator, EU, Interreg CZ/PL r.n. CZ.114.120/0.0/0.0/16\_026/0001092 Grassland biomass as a renewable source of energy - Biodiversity-Biomass-Biogas.

Co-investigator, EU, Interreg SN/CZ r.n. 100264999 Sustainable grassland management for supporting biodiversity.

## Conferences

Komainda M., Titěra J., Tonn B., Kajzrová K., Pavlů V.V., Isselstein J., 2022. Adaption of selected grasses towards micro-environmental conditions under long-term extensive grazing. In: Delaby L., Baumont R., Brocard V., Lemauviel-Lavenant S., Plantureux S., Vertès F., Peyraud J.L. (eds.). Grassland at the heart of circular and sustainable food systems. ISBN: 978-2-7380-1445-0.

Titěra J., Jürgen S., Pavlů V., Hejcman M., Pavlů L., Gaisler J., Nwaogu C., 2018. Variability of plant species composition and main functional groups in the Rengen Grassland Experiment. In: Horan B., Hennessy D., O'Donovan M., Kennedy E., McCarthy B., Finn J.A., O'Brien B. (eds.). Sustainable meat and milk production from grasslands. ISBN: 978-1-84170-643-6.

Titěra J., Jürgen S., Pavlů V., Nwaogu Ch., Hejcman M., Pavlů L., Gaisler J., 2017. Long-term dynamic of fertilized vegetation In: Mertens J., Tropek R. (eds.). Ekologie 2017 6th Conference of the Czech Society for Ecology.

Titěra J., Novák J., Pavlů V., Pavlů L., 2019. Effect of different management measures on the suppression of *Rumex obtusifolius* and *Urtica dioica* in formerly cattle resting places in mountain areas? Kostelecké inspirování 2018. ISBN: 978-80-213-2894-5.

Titěra J., Novák J., Pavlů V., Pavlů L., Gaisler J., 2018. What is a suitable management for occurrence of *Rumex obtusifolius* in mountain grasslands. In: Huguenin-Elie O., Studer B., Kölliker R., Reheul D., Probo M., Barre P., Feuerstein U., Roldán-Ruiz I., Mariotte P., Hopkins A. (eds.). Improving sown grasslands through breeding and management. ISBN: 978-3-033-07278-7.

Titěra J., Pavlů L., Pavlů V., 2022. Effect of different cutting intensity and ash application on soil characteristics, plant species composition and diversity in the mountains hay meadow in

Jizerské hory Mts. In: Hemelíková A., Harabiš F. (eds.). Kostelecké inspirování 2022. ISBN: 978-80-213-3222-5

Titěra J., Pavlů L., Pavlů V., Gaisler J., 2019. What is a suitable management for *Typha latifolia* control in wet meadow? In: Harabiš F., Řeřicha M., Ševčík R. (eds.). Kostelecké inspirování 2019. ISBN: 978- 80 213-2981-2.

Titěra J., Pavlů L., Pavlů V.V., 2022. What is a suitable management for *Typha latifolia* control in wet meadow? In: Delaby L., Baumont R., Brocard V., Lemauviel-Lavenant S., Plantureux S., Vertès F., Peyraud J.L. (eds.). Grassland at the heart of circular and sustainable food systems. ISBN: 978-2-7380-1445-0.

Titěra J., Pavlů V., Pavlů L., Hejcman M., 2020. The Admont Grassland Experiment: 70 years of fertilizer application and its effects on species diversity and plant species composition under a three-cut regime. In: Harabiš F., Řeřicha M., Ševčík R. (eds.). Kostelecké inspirování 2020. ISBN:978-80-213-3053-5.

Titěra J., Pavlů V., Pavlů L., Hejcman M., Gaisler J., Schellberg J., 2020. Was vegetation equilibrium achieved after 74 years of fertilizer applications in the Rengen Grassland Experiment? In: Virkajärvi P., Hakala K., Hakojarvi M., Helin J., Herzon I., Jokela V., Peltonen S., Rinne M., Seppänen M., Uusi-Kämppeä (eds.). Meeting the future demands for grassland production. ISBN: 978-952-326-944-6.