

# Lukas Petrusaitis

## CONTACT INFORMATION

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<https://www.linkedin.com/in/lukas-petrusaitis-9b42bb226/>

## EDUCATION AND ACADEMIC DEGREE

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| 2019 – 2023 | Vilnius University, Nature Research Centre, PhD in Ecology and environmental sciences.<br>PhD thesis topic: “Comparative Assessment of the Biological and Ecological Traits Determining the Invasiveness of Alien <i>Cornus</i> Taxa in Lithuania”.<br>Research was carried out at the Institute of Botany, Laboratory of Flora and Geobotany.                                |
| 2015 – 2017 | Vilnius University, Botany / Master studies (Magna Cum Laude)<br>Master thesis topic: “Diversity, distribution and population structure of the genus <i>Sympyotrichum</i> in Lithuania”.<br>Research was carried out at the Institute of Botany, Laboratory of Flora and Geobotany.<br>Research area: population structure, phytocenology, traits that lead to naturalization |
| 2015 – 2017 | Šiauliai University, Ecology and environmental sciences / Bachelor studies.<br>Thesis topic: “Diversity, ecology and distribution of the genus <i>Sympyotrichum</i> in Lithuania”.<br>Research was carried out at the Institute of Botany, Laboratory of Flora and Geobotany.<br>Research area: alien species, taxonomy; identification of critical taxa, morphometry.        |

## PROFESSIONAL EXPERIENCE

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| 2024 10 - present | <b>Researcher</b><br>Laboratory of Flora and Geobotany                             |
| 2023 02 – 2024 10 | <b>Junior Researcher</b><br>Laboratory of Flora and Geobotany, Institute of Botany |
| 2019 01 – 2022 12 | <b>PhD student</b><br>Laboratory of Flora and Geobotany, Institute of Botany       |
| 2016 05 – 2023 02 | <b>Biologist</b><br>Laboratory of Flora and Geobotany, Institute of Botany         |

## RESEARCH INTERESTS

Population and distribution studies of native and alien species, experimental development work in the areas of invasive plant control and conservation of protected plant species. The object of research is alien and rare plant species, both in terrestrial and aquatic ecosystems. Also, taxonomically complex genera in Lithuania and neighbouring countries, characteristics of alien and

local woody plants, that determine their establishment in the southern part of the European hemiboreal. Aquatic plants as bioindicators or river ecological status.

## PUBLICATIONS

*Scientific articles published in journals (books), indexed in „Clarivate Analytics Web of Science“ database (with citation index):*

1. Gudžinskas Z., **Petrulaitis L.**, Žalneravičius E. 2019. *Asclepias speciosa* (Apocynaceae, Asclepiadoideae): a rare or unrecognized alien species in Europe? – *PhytoKeys* 121: 29–41.
2. Gudžinskas Z., **Petrulaitis L.**, Žalneravičius E. 2020. Emerging invasion threat of the liana *Celastrus orbiculatus* (Celastraceae) in Europe. – *NeoBiota* 56: 1–26.
3. **Petrulaitis L.**, Gudžinskas, Z. 2020. The first records of two alien woody species, *Cornus alternifolia* and *Cornus amomum*, in Lithuania. – *BioInvasions Records*, 9 (2): 384–392.
4. Gudžinskas Z., **Petrulaitis L.**, Taura L. 2021. *Asclepias syriaca* (Apocynaceae) and its invasiveness in the southern part of the Boreal region of Europe – evidence from Lithuania. – *BioInvasions Records* (10) 2: 436–452.
5. **Petrulaitis L.**, Rašomavičius V., Uogintas D., Gudžinskas Z. 2022. Soil Seed Bank of Alien and Native *Cornus* (Cornaceae) Taxa in Lithuania: What Determines Seed Density and Vertical Distribution in Soil? – *Diversity* 14 (6): 488.
6. **Petrulaitis L.**, Gudžinskas Z., 2023. Drivers and Effects of Cryptic Invasion of *Cornus sanguinea* subsp. *australis* in Lithuania. – *Diversity* 15(1):107.
7. Sinkevičienė Z., Kamaitytė-Bukelskienė L., **Petrulaitis L.**, Gudžinskas Z., 2023. Current Distribution and Conservation Issues of Aquatic Plant Species Protected under Habitats Directive in Lithuania. – *Diversity* 15(2), 185.
8. Vilizzi L., Piria M., Pietraszewski D., Giannetto D., Flory S.L., Herczeg G., Baş Sermenli H., Britvec M., Jukoniene I., **Petrulaitis L.**, Vitasović-Kosić I., Almeida D., Al-Wazzan Z., Bakiu R., Boggero A., Chaichana R., Dashinov D., De Zoysa M., Gilles A.S. Jr, Gouletquer P., Interesova E., Kopecký O., Koutsikos N., Koyama A., Kristan P., Li S., Lukas J., Moghaddas S.D., Monteiro J.G., Mumladze L., Oh C., Olsson K.H., Pavia R.T. Jr, Perdikaris C., Pickholtz R., Preda C., Ristovska M., Slovák Švolíková K., Števove B., Ta K.A.T., Uzunova E., Vardakas L., Verreycken H., Wei H., Yoğurtçuoğlu B., Ferincz Á., Kirkendall L., Marszał L., Paganelli D., Stojchevska C., Tarkan A.S., Yazlık A. Development and application of a second-generation multilingual tool for invasion risk screening of non-native terrestrial plants. *Science of the Total Environment*. (917): 170475.
9. Walusiak E., Cieślak E., Wilk-Woźniak E., Szczepaniak M., Herrmann A., **Petrulaitis L.**, Rašomavičius V., Uogintas D., Krztoń W., 2024. A wide range of abiotic habitat factors and genetic diversity facilitate expansion of *Trapa natans* within its native range. *Journal of Environmental Management*. 370: 122468

*Scientific articles published in journals (books), indexed in „Clarivate Analytics Web of Science“ database (without citation index):*

1. Gudžinskas, Z., **Petrulaitis, L.**, Arlikevičiūtė, L., 2014. *Vaccinium macrocarpon* – a new alien plant species in Lithuania. *Botanica Lithuanica*. 20 (1): 41–45.
2. Gudžinskas, Z., **Petrulaitis, L.**, 2014. *Helianthus grosseseratus* a new alien plant species in Lithuania. *Botanica Lithuanica*. 20 (2): 173–176.
3. Gudžinskas, Z., **Petrulaitis L.**, 2016. New alien plant species recorded in the southern regions of Latvia. *Botanica Lithuanica*. 22(2): 153–160.
4. Gudžinskas Z., **Petrulaitis L.**, Žalneravičius E. 2017. New woody alien plant species recorded in Lithuania. – *Botanica Lithuanica*, 23 (2): 153–168.

5. Gudžinskas Z., Žalneravičius E., **Petrulaitis L.** 2018. Assessment of the potential of introduction, establishment and further spread of invasive alien plant species of European Union concern in Lithuania. – *Botanica*, 24 (1): 37–48.
6. **Petrulaitis L.**, Gudžinskas Z. 2018. What are we conserving? A case study of *Mentha longifolia* and allied species in Lithuania. – *Botanica*, 24 (1): 3–14.
7. Gudžinskas Z., **Petrulaitis L.** 2021. New alien taxa of the genus *Cornus* (Cornaceae) recorded in Lithuania and Latvia. – *Botanica*, 28 (1): 100–108.
8. **Petrulaitis L.** 2022. *Lotus maritimus* L. (Fabaceae), alien species new to Lithuania. – *Botanica*, 28 (1): 39–45.
9. **Petrulaitis L.**, 2023. *Veronica peregrina* (Plantaginaceae), an alien species rediscovered in Lithuania. – *Botanica*, 29(2): 91–95.

## **PARTICIPATION IN INTERNATIONAL AND NATIONAL SCIENTIFIC PROGRAMMES AND PROJECTS**

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| 2024–2027 | <b>Project implementer</b> Modernizing and Optimizing Biomonitoring of Lithuania Rivers – LMT grant no. P-MIP-24-601  |
| 2023–2025 | <b>Project implementer</b> Coexistence of native and alien plant and tick species along roadsides – LMT grant no. S-MIP-23-1  |
| 2022–2023 | <b>Junior researcher</b> Investigations of the Status of Invasive and Alien Species in Lithuania.   |
| 2020–2022 | <b>Biologist</b> Investigations of the Status of Invasive and Alien Species in Lithuania.   |
| 2018–2020 | <b>Babitats specialist</b> Conservation of biodiversity in open wetland habitats of the LV-LT cross-border region applying urgent and long-term management measures.  |
| 2017–2018 | <b>Assessor</b> 2017–2018 Analysis of unintentional introduction and spread of the invasive alien species of the EU Concern in Lithuania and identification of the priority introduction pathways, implementing the Regulation of the European Parliament and of the Council (1143/2014) on the Prevention and management of the introduction and spread of invasive alien species. |
| 2016–2018 | <b>Co-author</b> Preparation of the publication “Lithuanian Red Book”.  |
| 2016–2018 | <b>Assessor</b> Evaluation of protected animals, plants and mushrooms in Lithuania according to IUCN categories and preparation of species descriptions.  |

## **INTERNSHIP AND TRAINING**

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| 2024 10 | EMBO "Project Management" Vilnius University, Vilnius, Lithuania.  |
| 2024 09 | AI Bootcamp for Researchers: From Data to Article Or Grant Proposal in 48 Hours – Lithuanian Research Council, Vilnius, Lithuania. |
| 2024 04 | DNA barcoding: from sequences to species – Norwegian University of Science and Technology, Trondheim, Norway.                      |
| 2022 07 | „Forest genetic monitoring „, Lithuanian Research Centre for Agriculture and Forestry (LAMMC), Kaunas, Lithuania.                  |
| 2022 03 | „Integrative Taxonomy in the big Data Era“, Muséum national d'Histoire naturelle (MNHN), Paris, France.                            |

## PARTICIPATION IN SCIENTIFIC CONFERENCES

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### International scientific conferences:

1. **Petrulaitis L.**, Gudžinskas Z. 2021. The structure and density of *Cornus* seeds in the soil seed bank in Lithuania. – „The 63<sup>rd</sup> International Scientific Conference of Daugavpils University“, April 15–16, Daugavpils, Latvia.
2. Kamaitytė-Bukelskienė L., **Petrulaitis L.**, Sinkevičienė Z. 2022. Recent distribution of *Najas minor* and *Najas flexilis* in Lithuania. – „The 64<sup>th</sup> International Scientific Conference of Daugavpils University“, April 21–22, Daugavpils, Latvia. Book of Abstracts: 11.
3. **Petrulaitis L.**, Gudžinskas Z. 2022. Ecology and invasiveness of the genus *Cornus* in Lithuania. – „12<sup>th</sup> International Conference on Biological Invasions NEOBIOTA: Biological Invasions in a Changing World“, September 12–16, Tartu, Estonia. Book of Abstracts: 118.
4. **Petrulaitis L.**, Gudžinskas Z. 2022. Silent invasion of *Cornus sanguinea* subsp. *australis* in Lithuania. – „2<sup>nd</sup> International Conference on Botany and Mycology“, September 19–20, Sofia, Bulgaria. Book of Abstracts: 37
5. Uogintas D., **Petrulaitis L.**, Kitrytė N., Šimanskaitė V., 2023. Coexistence of native and alien plant and tick species along roadsides: introduction to a project. 31<sup>st</sup> European Vegetation Survey. 2023 May 21-25, Rome, Italy.
6. Zavatta L., Ranalli R., **Petrulaitis L.**, Barberis M., Zenga E.L., Flaminio S., Lutovinovas E., Lazauskaitė M., Bortolotti L., Galloni M., 2024. Ecological dynamics of the invasive species *Erigeron annuus*: impact on pollinator communities and resource availability. 7<sup>th</sup> European Congress of Conservation Biology “Biodiversity positive by 2030” 17-21 June 2024 – Bologna, Italy.
7. **Petrulaitis L.**, Gudžinskas Z. 2024. Less productive, but successful. A case of *Cornus sericea* invasion in Lithuania. International Conference Research and Practice in Forest Ecology. Kórnik, Poland, May 8-10.
8. **Petrulaitis L.**, Šimanskaitė V., Kitrytė N., Uogintas D., 2024. Functional diversity in roadside plant communities: a case study on the impact of alien species in Lithuania. „13<sup>th</sup> International Conference on Biological Invasions NEOBIOTA. Book of Abstracts Anastácio, P., Brandão, P., Chainho, P., Trindade, H. & Ribeiro, F. (Eds.). September 3–6, Lisboa, Portugal.
9. Uogintas D., **Petrulaitis L.**, Kitrytė N., Šimanskaitė V., 2024. KELVEG - The Database of Roadside Vegetation in Lithuania. International Association for Vegetation Science (IAVS) 2024 Abstract Book. Funchal, Madeira, Portugal.
10. Ranalli R., Zavatta L., **Petrulaitis L.**, Barberis M., Flaminio S., Lutovinovas E., Lazauskaitė M., Zenga E.L., D'Agostino M., Bortolotti L., Galloni M., 2024. Impatto della specie aliena invasiva *Erigeron annuus* (L.) Desf. (Asteraceae) sulle dinamiche di impollinazione negli ecosistemi europei. Gruppo Di Lavoro Per Le Specie Alloctone Riunione Scientifica e Amministrativa 2024, Orto Botanico di Roma, Roma, Italia.

### National scientific conferences:

1. **Petrulaitis L.**, Gudžinskas Z., 2021. Biological traits of the genus *Cornus* that determine their naturalization in Lithuania. – 14<sup>th</sup> Conference of young researchers of Lithuania „Biofuture: perspectives of nature and life sciences, November 24, Kaunas, Lithuania: 15.

## **Supervision of bachelor and master students:**

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|-------------------|--|-----------|
| Aušrinė Kvilklytė | Bachelor thesis: Population and habitat diversity of the broad-leaved helleborine ( <i>Epipactis helleborine</i> L.) in anthropogenic habitats in Lithuania (Vilnius University) | 2022-2024 |
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## **Books**

Gudžinskas Z., **Petrulaitis L.**, Uogintas D., Vaitonis G., Balčiauskas L., Rakauskas V., Arbačiauskas K., Butkus R., Karalius S., Janulaitienė L., Rašomavičius. Invasive and alien species in Lithuania – Vilnius: Nature Research Centre, 2023. – 312 p. iliustr. – ISBN 978-609-8255-32-4

## **Other professional activity:**

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| From 2024 | Nature Research Centre Council on Invasive species – Coordinator                               |
| From 2024 | Nature Research Centre Early Career Researchers Committee – Member                             |
| From 2024 | Nature Research Centre Collections Department – Member   |
| From 2024 | International Aquatic Plants Group – Member  |
| From 2023 | International Research Group on Charophytes – Member   |
| From 2022 | Council on Invasive Species to the Ministry of Environment – Member                            |
| From 2019 | International Association for Open Knowledge on Invasive Alien Species (INVASIVESNET) – Member |
| From 2017 | Eurasian Dry Grassland Group (EDGG) – Member   |