

# Zigmantas Gudžinskas

## CONTACT INFORMATION

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## EDUCATION AND ACADEMIC DEGREE

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1994 Doctor of Sciences awarded by Vilnius University and Institute of Botany (Natural Sciences, Biology, Botany, B004)  
Doctoral Thesis: „Alien Plant Species in Lithuania”.  
Research area: plant invasions, ecology, phytogeography.

1987–1991 Vilnius Pedagogical University.  
Diploma Thesis: “Alien species of the Poaceae family in the flora of Lithuania”

## PROFESSIONAL EXPERIENCE

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2021–present **Senior researcher**  
Laboratory of Flora and Geobotany, Nature Research Centre

2017–2021 **Researcher**  
Laboratory of Flora and Geobotany, Nature Research Centre

2013–2017 **Junior researcher**  
Laboratory of Flora and Geobotany, Nature Research Centre

1996–2013 **Senior researcher**  
Laboratory of Flora and Geobotany, Institute of Botany

1994–1996 **Researcher**  
Laboratory of Flora and Geobotany, Institute of Botany

1991–1994 **Junior researcher**  
Laboratory of Flora and Geobotany, Institute of Botany

## RESEARCH INTERESTS

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The scope of the research: immigration and naturalisation of alien and invasive plant species, factors influencing their reproduction and spread, impact on native species and ecosystems; diversity of Lithuanian flora and its changes due to anthropogenic factors; composition of populations of rare and endangered plant species and their changes due to natural and anthropogenic causes; taxonomy and nomenclature of plants; accumulation of secondary metabolites in plants and their dependence on ecological conditions

## PUBLICATIONS

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

1. **Gudžinskas Z.**, Žalneravičius E. 2016. *Solidago ×snarskisii* nothosp. nov. (Asteraceae) from Lithuania and its position in the infrageneric classification of the genus. – *Phytotaxa*, 253(2): 147–155. <https://doi.org/10.11646/phytotaxa.253.2.4>
2. **Gudžinskas Z.**, Petrulaitis L., Žalneravičius E. 2019. *Asclepias speciosa* (Apocynaceae, Asclepiadoideae): a rare or unrecognized alien species in Europe? – *PhytoKeys*, 121: 29–41. <https://doi.org/10.3897/phytokeys.121.33573>
3. **Gudžinskas Z.**, Petrulaitis L., Žalneravičius E. 2020. Emerging invasion threat of the liana *Celastrus orbiculatus* (Celastraceae) in Europe. – *NeoBiota*, 56: 1–26. <https://doi.org/10.3897/neobiota.56.34261>
4. Mykhailenko O., **Gudžinskas Z.**, Kovalyov V., Desenko V., Ivanauskas L., Bezruk I., Georgiyants V. 2020. Effect of ecological factors on the accumulation of phenolic compounds in *Iris* species from Latvia, Lithuania and Ukraine. *Phytochemical Analysis*, 31 (5): 545–563.
5. Wandjou J.G.N., Quassinti L., **Gudžinskas Z.**, Nagy D.U., Cianfaglione K., Bramucci M., Maggi F. 2020. Chemical composition and antiproliferative effect of essential oils of four *Solidago* species (*S. canadensis*, *S. gigantea*, *S. virgaurea* and *S. ×niederederi*). – *Chemistry & Biodiversity*, 17 (11): e2000685.
6. 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. <https://doi.org/10.3391/bir.2020.9.2.24>
7. **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. <https://doi.org/10.3391/bir.2021.10.2.22>
8. **Gudžinskas Z.**, **Taura L.** 2021. *Scirpus radicans* (Cyperaceae), a newly-discovered native species in Lithuania: population, habitats and threats. – *Biodiversity Data Journal*, 9: e65674. <https://doi.org/10.3897/BDJ.9.e65674>
9. 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. <https://doi.org/10.3390/d14060488>
10. **Gudžinskas Z.**, **Taura L.** 2022. Do reproductive traits of invasive populations of Scotch broom, *Cytisus scoparius* (Fabaceae), outperform native populations? – *Plants*, 11(16): 2158. <https://doi.org/10.3390/plants11162158>
11. **Taura L.**, Kamaitytė-Bukelskienė L., Sinkevičienė Z., **Gudžinskas Z.** 2022. Study on the rare semiaquatic plant *Elatine hydropiper* (Elatinaceae) in Lithuania: Population density, seed bank and conservation challenges. – *Frontiers in Bioscience-Landmark*, 27(5): 162. <https://doi.org/10.31083/j.fbl2705162>

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

1. **Gudžinskas Z.**, Petrulaitis L., Žalneravičius E. 2017. New woody alien plant species recorded in Lithuania. – *Botanica Lithuanica*, 23 (2): 153–168. <https://doi.org/10.1515/botlit-2017-0017>
2. **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. <https://doi.org/10.2478/botlit-2018-0004>
3. 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. <https://doi.org/10.2478/botlit-2018-0001>
4. **Gudžinskas Z.**, **Taura L.** 2020. New alien plant species recorded in South Lithuania. – *Botanica*, 26(2): 170–183.

5. **Taura, L.**, Gudžinskas Z. 2020. Life stages and demography of invasive shrub *Cytisus scoparius* (Fabaceae) in Lithuania. – *Botanica*, 26(1):1–14.
6. Gudžinskas Z., **Taura L.** 2021. Confirmed occurrence of the native plant species *Eleocharis ovata* (Cyperaceae) in Lithuania. – *Botanica*, 27(1): 44–52.
7. **Gudžinskas Z.**, Petrulaitis L. 2021. New alien taxa of the genus *Cornus* (Cornaceae) recorded in Lithuania and Latvia. – *Botanica*, 28 (1): 100–108. <https://doi.org/10.35513/Botlit.2021.2.6>
8. Gudžinskas Z., **Taura L.** 2022. Rediscovery of endangered species *Laphangium luteoalbum* (Asteraceae) in Lithuania. – *Botanica*, 28(1): 60–66. <https://doi.org/10.35513/Botlit.2022.1.7>

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

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| 2020–2021 | <b>Leading researcher.</b> The contract for the procurement of CITES expertise and consultancy services. Ministry of the Environment.  |
| 2018–2019 | <b>Leading researcher.</b> Service contract for the preparation of the report on the part of the Regulation (EU) No 1143/2014 of the European Parliament and of the Council concerning the prevention and management of the introduction and spread of invasive alien species. Ministry of the Environment.  |
| 2017–2018 | <b>Leading researcher.</b> Analysis of unintentional introduction and spread pathways of invasive alien species of concern to the Union in Lithuania and the identification of priority pathways of entry, in the framework of the implementation of the Regulation of the European Parliament and of the Council of 22 October 2014. Ministry of the Environment. |
| 2016–2017 | <b>Leading researcher.</b> Service for the preparation of invasive species abundance management plans (plants). Ministry of the Environment.   |

## **PARTICIPATION IN SCIENTIFIC CONFERENCES**

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### *International scientific conferences:*

1. Petrulaitis L., **Gudžinskas Z.** 2017. *Symphyotrichum* species possess potential threat to meadow habitats. – “14<sup>th</sup> Eurasian Grassland Conference: Semi-natural grasslands across borders”, June 4–11, Riga, Latvia. Book of Abstracts: 44. [https://egc2017.namupro.de/sites/egc2017.namupro.de/files/images/Book\\_of\\_Abstracts\\_14EGC.pdf](https://egc2017.namupro.de/sites/egc2017.namupro.de/files/images/Book_of_Abstracts_14EGC.pdf)
2. **Gudžinskas Z.**, Petrulaitis L. 2018 Evaluation of *Celastrus orbiculatus* (Celastraceae) invasiveness: a case study. – “10<sup>th</sup> International Conference on Biological Invasions. New Directions in Invasion Biology”, September 3–7, Dublin, Ireland. Book of Abstracts: 61. [https://na.eventscloud.com/file\\_uploads/db6fe9076cf680d794ca865581d89dd6\\_NEOBIOTA\\_singlesV3\\_290818.pdf](https://na.eventscloud.com/file_uploads/db6fe9076cf680d794ca865581d89dd6_NEOBIOTA_singlesV3_290818.pdf)
3. 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. [https://dukonference.lv/files/2021\\_978-9984-14-942-4\\_DU%2063%20startp%20zinatn%20konf%20tezes.pdf](https://dukonference.lv/files/2021_978-9984-14-942-4_DU%2063%20startp%20zinatn%20konf%20tezes.pdf)
4. 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. [https://www.elus.ee/wp-content/uploads/2022/09/NEOBIOTA-2022\\_Book-of-Abstracts.pdf](https://www.elus.ee/wp-content/uploads/2022/09/NEOBIOTA-2022_Book-of-Abstracts.pdf)
5. 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. <https://icbotmyco.com/wp-content/uploads/2022/09/BOTMYCO-2022-Abstracts-Book.pdf>

***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. [https://www.lma.lt/uploads/files/2021-11-25%20BIOATEITIS%20prane%c5%a1im%c5%b3%20santraukos\\_internetui.pdf](https://www.lma.lt/uploads/files/2021-11-25%20BIOATEITIS%20prane%c5%a1im%c5%b3%20santraukos_internetui.pdf)

**PARTICIPATION IN THE STUDY PROCESS**

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***Supervision of PhD students:***

Natural Sciences (N000). Ecology and Environmental Science (N012)

Lukas Petrulaitis	Comparative study on traits and ecological performance of alien and native <i>Cornus</i> species in the southern hemiboreal zone of Europe.	2019-01-02– 2022-12-31
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Natural Sciences (N000). Ecology and Environmental Science (N012)

Laurynas Taura	The effect of reproductive and functional traits on the stability of populations of threatened plant species under climate change	2020-10-01– 2024-09-30
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