

# Vitalijus Stirké

## CONTACT INFORMATION

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## EDUCATION AND ACADEMIC DEGREE

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From 2019 PhD student of Ecology and Environmental Sciences  
Research theme: “Peculiarities of small mammal ecology in commercial orchards and berry plantations ”, scientific supervisor: doc. dr. Linas Balčiauskas

2008 Strategic Management and Policy faculty at Mykolas Romeris University  
Master of Environmental Protection Policy and Public Administration

2006 The Faculty of Nature Sciences Department at Vilnius Pedagogical University  
Bachelor degree in biology and teacher qualification

## PROFESSIONAL EXPERIENCE

2005 until now A biologist in the mammalian ecology laboratory

## RESEARCH INTERESTS

The main research trends are investigations of mammal species diversity, abundance and dynamics, habitat and spatial distribution, demographical structure and ecology of populations, as well as the assessment of functional regularities of mammal populations and communities in different landscapes and under anthropogenic impact.

## PUBLICATIONS

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

1. Balčiauskas, L., **Stirkė, V.**, Garbaras, A., Skipitytė, R., & Balčiauskienė, L. (2022). Stable Isotope Analysis Supports Omnivory in Bank Voles in Apple Orchards. *Agriculture*, 12(9), 1308.
2. **Stirkė, V.**, Balčiauskas, L., Balčiauskienė, L. (2022). Spatiotemporal variation of small mammal communities in commercial orchards across the small country. *Agriculture*, 12, 632
3. Balčiauskas, L., **Stirkė, V.**, & Balčiauskienė, L. (2022). Rodent fertility in commercial orchards in relation to body mass and body condition. *Agriculture, Ecosystems & Environment*, 329, 107886.
4. Balčiauskas, L., Ežerinskis, Ž., **Stirkė, V.**, Balčiauskienė, L., Garbaras, A., & Remeikis, V. (2022). The elemental composition of small mammals in a commercial orchard–meadow system. *Chemosphere*, 296, 134048.
5. Balčiauskas, L., Skipitytė, R., Garbaras, A., **Stirkė, V.**, Balčiauskienė, L., & Remeikis, V. (2021). Isotopic niche of syntopic granivores in commercial orchards and meadows. *Animals*, 11(8), 2375.

6. Balčiauskas, L., Balčiauskienė, L., Garbaras, A., & Stirkė, V. (2021). Diversity and Diet Differences of Small Mammals in Commensal Habitats. *Diversity*, 13(8), 346.
7. Balčiauskas, L., Skipitytė, R., Garbaras, A., Stirkė, V., Balčiauskienė, L., & Remeikis, V. (2021). Stable Isotopes Reveal the Dominant Species to Have the Widest Trophic Niche of Three Syntopic *Microtus Voles*. *Animals*, 11(6), 1814.
8. Stirkė, V., Balčiauskas, L., Balčiauskienė, L. (2021) Common vole as a focal small mammal species in orchards of the Northern Zone. *Diversity-Basel*, 13 (3): art. no. 134.
9. Balčiauskas, L., Balčiauskienė, L., & Stirkė, V. (2019). Mow the Grass at the Mouse's Peril: Diversity of Small Mammals in Commercial Fruit Farms. *Animals*, 9(6), 334.

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

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2018 – 2019      Determination of the distribution of common vole (*Microtus arvalis*) in commercial orchards and berry plantations, on the registration of plant protection products. Project funded by Ministry of Agriculture of the Republic of Lithuania. Position: executor. Duration: 2018–2019.

## **PARTICIPATION IN SCIENTIFIC CONFERENCES**

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### *International scientific conferences:*

1. Stirkė, V., Balčiauskas, L., Balčiauskienė, L. 2022. We might win the battle, but not the war: breeding of small mammals in the commercial orchards. 11th International Conference on Biodiversity Research, October 20–22. Daugavpils, Latvia. Book of abstracts, Daugavpils University Academic Press “Saule”, p. 127. [https://biodiversityconference.biology.lv/public/conferences/6/AB\\_2022.pdf](https://biodiversityconference.biology.lv/public/conferences/6/AB_2022.pdf)
2. Balčiauskas, L., Stirkė, V., Skipitytė, R., Garbaras, A., Ežerinskis, Ž., Balčiauskienė, L. 2022. Small mammal ecology in commercial orchards and berry plantations: case study in Lithuania. 2nd edition global conference on agriculture and horticulture, September 01-03, 2022, Paris, France.
3. Stirkė, V., Balčiauskas, L., Balčiauskienė, L. 2022. Small mammal diversity and abundance in commercial orchards in relation to habitat and agricultural factors. The 2nd International Electronic Conference on Diversity (IECD 2022)—New Insights into the Biodiversity of Plants, Animals and Microbes, section: Animals Diversity; 2022 March 15–30. <https://sciforum.net/paper/view/1>
4. Jasiulionis, M., Stirkė, V., Balčiauskas, L. 2022. Invasive raccoon dog (*Nyctereutes procyonoides*) and raccoon (*Procyon lotor*) monitoring in Lithuania based on camera traps data. The 2nd International Electronic Conference on Diversity (IECD 2022)—New Insights into the Biodiversity of Plants, Animals and Microbes, section: Animals Diversity; 2022 March 15–30. <https://sciforum.net/paper/view/12406>
5. Balčiauskas L., Stirkė V., Balčiauskienė L. 2021. Do orchards maintain favorable states of small mammal communities? XVI International Interdisciplinary Conference Current Environmental Issues-2021, September 22-23. 2021, Bialystok, p.27
6. Rakauskaitė, P., Stirkė, V., Rudaitytė-Lukošienė, E., Balčiauskas, L., Butkavikas, D., Prakas, P. 2021. Molecular identification of *Sarcocystis* parasites in rodents. COINS 2021. February 27, Vilnius, Lithuania. Internetinė prieiga: <https://thecoins.eu/wp-content/uploads/2021/03/The-COINS-2021-Book-of-Abstracts.pdf>
7. Stirkė, V., Balčiauskas, L., Balčiauskienė, L. ABS3706: To the dismay of the landlord, small mammal communities in orchards and homesteads. 7th International Conference on Agricultural and Biological Sciences (ABS 2021), August 8th-11th, 2021 Bohai University, China

8. Skipitytė R., Garbaras A., **Stirkė V.**, Balčiauskas L., Balčiauskienė L. Stable isotopes reveal the dominant species to have the widest trophic niche among three sympatric *Microtus* voles. 11.5 International conference on Applications of Stable Isotope Techniques to Ecological Studies, May 19-21, 2021, Vienna, P. 118
9. **Stirkė, V.**, Balčiauskas, L., Balčiauskienė, L., Skipitytė, R., Garbaras, A. 2021. Trophic ecology of small mammals in commercial orchards: insights from stable isotope studies. Open Readings 2021. 16–19 March, 2021, Vilnius.
10. Skipitytė, R., Garbaras, A., **Stirkė, V.**, Balčiauskas, L., Balčiauskienė, L. Do *Microtus* voles share the same trophic niche in commercial orchards? 11th Baltic Theriological Conference, 26-27 January 2021, Kaunas, Lithuania, Abstract book, p. 27. ISBN 978-609-454-510-8
11. **Stirkė, V.**, Balčiauskas, L., Balčiauskienė, L. Common vole feels comfortable in orchards. 11th Baltic Theriological Conference, 26-27 January 2021, Kaunas, Lithuania, Abstract book, p. 29. ISBN 978-609-454-510-8
12. Balčiauskas, L., **Stirkė V.**, Balčiauskienė, L. 2020. Title: Chunky reproduces better? Small rodent fertility and fitness in commercial orchards. Conference: The 1st International Electronic Conference on Animals—Global Sustainability and Animals: Science, Ethics and Policy. Section: Climate change and effects on the sustainability of animal systems. <https://sciforum.net/dashboard/author/submissions/95d985bd35f36ba89fa0048f83597259>.
13. Balčiauskas, L., Balčiauskienė, L., Skipitytė, R., **Stirkė, V.** 2019. Foraging strategies of small mammals from commercial orchards as indicated by isotopic signatures. “Current Environmental Issues 2019”. Bialystok, 24–26 September 2019.
14. Balčiauskas, L., Balčiauskienė, L., **Stirkė, V.** 2019. Diversity of small mammals in commercial gardens and berry fields of Lithuania. 10th International Conference on Biodiversity Research, Book of Abstracts, Daugavpils, 24.-26.04.2019. P. 56

#### *National scientific conferences:*

1. **V. Stirkė**, R. Skipitytė, L. Balčiauskas, L. Balčiauskienė 2019. Commensals or competitors: mice and vole in commercial orchards. Bio-future: Perspectives on the Natural and Life Sciences. Kaunas, December 11, 2019.

#### **OTHERS**

1. **Stirkė, V.**, Balčiauskas, L., Balčiauskienė, L. 2021 Ar visos pelės galime vadinti pelėmis? Biržiečių žodis. 2021 Gruodis Nr. 97 (10249): 10
2. **Stirkė, V.** 2019. Su kuo dalinatės derliumi? Sodo spalvos. 2019 spalvis Nr. 10 (274): 53-55.
3. Balčiauskas, L., Balčiauskienė, L., **Stirkė, V.** 2019. Intensyvi sodų priežiūra mažina graužikų gausumą. Agroverslo žurnalas. Mano ūkis. 2019 vasaris: 40–41.
4. Balčiauskienė, L., Balčiauskas, L., **Stirkė, V.** 2018. Nevadinkite visų graužikų pelėmis! Ūkininko patarėjas. 2018 lapkričio 20, Nr. 132 (3840): 12.
5. **Stirkė, V.** 2017. Susitikimas su vilkais Guodžių durpyne. Medžiotojas ir meškeriojas. 2017 sausis-vasaris, Nr. 1 (142): 24-25.
6. Alejūnas, P., Jasiulionis, M., **Stirkė, V.** 2015. Rudasis lokys – nedažnas svečias Lietuvoje. Medžiotojas ir meškeriojas. 2015 liepa-rugpjūtis, Nr. 4 (133): 22-23.