

# Norbertas Noreika

## CONTACT INFORMATION

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[https://www.researchgate.net/profile/Norbertas\\_Noreika](https://www.researchgate.net/profile/Norbertas_Noreika)  
Google Scholar:  
<https://scholar.google.com/citations?user=iF4O2zQAAAAJ&hl=en>  
Twitter: @DrNoreika

## EDUCATION AND ACADEMIC DEGREE

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2011 – 2016 Doctor's Degree in Ecology and Evolutionary Biology, supervisor: D. Johan Kotze, On the deterioration and restoration of mire invertebrate communities, University of Helsinki, Faculty of Biological and Environmental Sciences, Helsinki, Finland.  
2009 – 2011 Master's Degree in Biology, supervisors: D. Johan Kotze; Søren Toft, Forest edge contrasts have a predictable effect on the spatial distribution of carabid beetles in urban forests, Aarhus University, Aarhus, Denmark.  
2005 – 2009 Bachelor's Degree in Biology, Vilnius University, Lithuania.

## PROFESSIONAL EXPERIENCE

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01.06.2022–until now Nature Research Centre, Laboratory of Entomology, **Senior Researcher**  
01.09.2021–until now Estonian University of Life Sciences, Institute of Agricultural and Environmental Sciences, Chair of Plant Health, **Senior Researcher**  
01.01.2019–31.08.2021 Estonian University of Life Sciences, Institute of Agricultural and Environmental Sciences, Chair of Plant Health, **Researcher**  
01.01.2018–31.12.2019 Swedish University of Agricultural Sciences, Department of Ecology, Uppsala, Sweden, **Post-Doc**  
01.05.2016–30.06.2018 University of Tartu, Faculty of Science and Technology, Institute of Ecology and Earth Sciences, **Post-Doc**  
01.07.2012–31.07.2012 Finnish Museum of Natural History, University of Helsinki, Finland, **Technical assistant**  
01.06.2010–31.12.2011 Department of Environmental Sciences, University of Helsinki, Finland, **Research assistant**  
01.11.2009–31.05.2010 Ecoinformatics and Biodiversity Research Group, Aarhus University, Denmark, **Database manager**  
01.02.2005–31.12.2005 Lithuanian Fund for Nature, **Assistant**

## RESEARCH INTERESTS

I am mainly interested in insect ecology and community ecology (carabid beetles are the main taxa of interest). Especially, my research is focused on various anthropogenic effects on insect

biodiversity as well as on individual insect species. My research themes cover conservation biology, restoration ecology, landscape and urban ecology, biodiversity and insect physiology.

My research reveals the integral picture of community/ecosystem formation, functioning and responses to anthropogenic activities. I aim to provide knowledge on practical issues of ecosystem restoration and conservation. Thus far I investigated many fundamentally different ecosystem types (from boreal to nemoral forests, mires, semi-natural grasslands, urban ecosystems, agroecosystems) and various organism groups (many insect taxa, spiders, plants, fungi).

Currently, I am principal investigator in personal project which aims to reveal what are the effects of pesticide usage on carabid beetles in agroecosystems in Estonia (on their feeding conditions, physiology and diversity).

My postdoctoral research at SLU (Uppsala, Sweden) was dealing primarily with restoration ecology. There I explored how plant-pollinator networks are re-wired due to the abandonment and subsequent restoration of semi-natural grasslands. As well, in order to make more general recommendations for ecosystem restoration I was performing meta-analyses on different ecosystem types. I worked on these topics in collaboration with Dr. Erik Öckinger.

I did my first postdoc at the University of Tartu, Estonia (supervisor prof. Meelis Pärtel). My research there aimed to uncover the mechanisms of biodiversity-productivity relationship in forest ecosystems. To achieve this I considered various taxonomic groups (plants, soil fungi, carabids) and took into account species pool size variation and historical landscape dynamics.

I completed my PhD in Ecology and Evolutionary Biology at the University of Helsinki, Finland (supervisor Doc. D. Johan Kotze). There I investigated the effects of negative anthropogenic disturbances (drainage, urbanisation) and subsequent restoration on mire invertebrate communities.

I finished my MSc studies at Aarhus University, Denmark. In my MSc thesis I demonstrated how differently contrasting urban forest edges affect carabid beetle assemblages. In addition, I performed research on behavioural and physiological aspects of insect ecology.

## **PUBLICATIONS**

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

### **2021**

**Noreika, Norbertas;** Pärtel, Meelis; Öpik, Maarja (2021). Effects of mutualistic and pathogenic soil mycobiota on forest ecosystem functioning: herbaceous phytometer growth on natural and sterilised soils. *Ecological Indicators*, 127, 107792. DOI: [10.1016/j.ecolind.2021.107792](https://doi.org/10.1016/j.ecolind.2021.107792).

### **2020**

**Noreika, Norbertas;** Partel, Meelis; Ockinger, Erik (2020). Community completeness as a measure of restoration success: multiple-study comparisons across ecosystems and ecological groups. *Biodiversity and Conservation*, 29 (13), 3807–3827. DOI: [10.1007/s10531-020-02050-1](https://doi.org/10.1007/s10531-020-02050-1).

Christie, Alec P.; Abecasis, David; Adjeroud, Mehdi; Alonso, Juan C.; Amano, Tatsuya; Anton, Alvaro; Baldigo, Barry P.; Barrientos, Rafael; Bicknell, Jake E.; Buhl, Deborah A.; Cebrian, Just; Ceia, Ricardo S.; Cibils-Martina, Luciana; Clarke, Sarah; Claudet, Joachim; Craig, Michael D.; Davault, Dominique; Backer, Annelies De; Donovan, Mary K.; Eddy, Tyler D.;... **Noreika, Norbertas** ... Sutherland, William J. (2020). Quantifying and addressing the prevalence and bias of study designs in the environmental and social sciences. *Nature Communications*, 11 (1), ARTN 6377. DOI: [10.1038/s41467-020-20142-y](https://doi.org/10.1038/s41467-020-20142-y).

### **2019**

**Noreika, Norbertas;** Helm, Aveliina; Öpik, Maarja; Jairus, Teele; Vasar, Martti; Reier, Ülle; Kook, Ene; Riibak, Kersti; Kasari, Liis; Tullus, Hardi; Tullus, Tea; Lutter, Reimo; Oja, Ede; Saag, Andres; Randlane, Tiina; Pärtel, Meelis (2019). Forest biomass, soil and biodiversity relationships originate from biogeographic affinity and direct ecological effects. *Oikos*, 128 (11), 1653–1665. DOI: [10.1111/oik.06693](https://doi.org/10.1111/oik.06693).

**Noreika, Norbertas;** Bartomeus, Ignasi; Winsa, Marie; Bommarco, Riccardo; Ockinger, Erik (2019). Pollinator foraging flexibility mediates rapid plant-pollinator network restoration in semi-natural grasslands. *Scientific Reports*, 9, ARTN 15473. DOI: [10.1038/s41598-019-51912-4](https://doi.org/10.1038/s41598-019-51912-4).

## 2017

Hudson, Lawrence N; Newbold, Tim; Contu, Sara; Hill, Samantha L L; Lysenko, Igor; De Palma, Adriana; Phillips, Helen R P; Alhousseini, Tamera I; Bedford, Felicity E; Bennett, Dominic J; Booth, Hollie; Burton, Victoria J; Chng, Charlotte W T; Choimes, Argyrios; Correia, David L P; Day, Julie; Echeverría-Londoño, Susy; Emerson, Susan R; Gao, Di; Garon, Morgan;... **Noreika, Norbertas** ... Purvis, Andy (2017). The database of the PREDICTS (Projecting Responses of Ecological Diversity In Changing Terrestrial Systems) project. *Ecology and Evolution*, 7 (1), 145–188. DOI: [10.1002/ece3.2579](https://doi.org/10.1002/ece3.2579).

## 2016

**Noreika, Norbertas;** Kotze, D. Johan; Loukola, Olli J.; Sormunen, Niina; Vuori, Anna; Paivinen, Jussi; Penttinen, Jouni; Punttila, Pekka; Kotiaho, Janne S. (2016). Specialist butterflies benefit most from the ecological restoration of mires. *Biological Conservation*, 196, 103–114. DOI: [10.1016/j.biocon.2016.02.014](https://doi.org/10.1016/j.biocon.2016.02.014).

**Noreika, Norbertas;** Madsen, Natalia E. L.; Jensen, Kim; Toft, Soren (2016). Balancing of lipid, protein, and carbohydrate intake in a predatory beetle following hibernation, and consequences for lipid restoration. *Journal of Insect Physiology*, 88, 1–9. DOI: [10.1016/j.jinsphys.2016.02.004](https://doi.org/10.1016/j.jinsphys.2016.02.004).

Punttila, Pekka; Autio, Olli; Kotiaho, Janne; Kotze, Johan; Loukola, Olli; **Noreika, Norbertas;** Vuori, Anna; Vepsäläinen, Kari (2016). The effects of drainage and restoration of pine mires on habitat structure, vegetation and ants. *Silva Fennica*, 50 (2), 1462. DOI: [10.14214/sf.1462](https://doi.org/10.14214/sf.1462).

## 2015

**Noreika, Norbertas;** Kotiaho, Janne S.; Penttinen, Jouni; Punttila, Pekka; Vuori, Anna; Pajunen, Timo; Autio, Olli; Loukola, Olli J.; Kotze, D. Johan (2015). Rapid recovery of invertebrate communities after ecological restoration of boreal mires. *Restoration Ecology*, 23 (5), 566–579. DOI: [10.1111/rec.12237](https://doi.org/10.1111/rec.12237).

**Noreika, Norbertas;** Pajunen, Timo; Kotze, D. Johan (2015). Urban mires as hotspots of epigeic arthropod diversity. *Biodiversity and Conservation*, 24 (12), 2991–3007. DOI: [10.1007/s10531-015-0990-9](https://doi.org/10.1007/s10531-015-0990-9).

## 2014

Hudson, Lawrence N.; Newbold, Tim; Contu, Sara; Hill, Samantha L. L.; Lysenko, Igor; De Palma, Adriana; Phillips, Helen R. P.; Senior, Rebecca A.; Bennett, Dominic J.; Booth, Hollie; Choimes, Argyrios; Correia, David L. P.; Day, Julie; Echeverria-Londono, Susy; Garon, Morgan; Harrison, Michelle L. K.; Ingram, Daniel J.; Jung, Martin; Kemp, Victoria; Kirkpatrick, Lucinda;... **Noreika, Norbertas** ... Purvis, Andy (2014). The PREDICTS database: a global database of how local terrestrial biodiversity responds to human impacts. *Ecology and Evolution*, 4 (24), 4701–4735. DOI: [10.1002/ece3.1303](https://doi.org/10.1002/ece3.1303).

## 2012

**Noreika, Norbertas**; Kotze, D. Johan (2012). Forest edge contrasts have a predictable effect on the spatial distribution of carabid beetles in urban forests. *Journal of Insect Conservation*, 16 (6), 867–881. DOI: [10.1007/s10841-012-9474-3](https://doi.org/10.1007/s10841-012-9474-3).

### *Reviewed scientific articles, published in Lithuania:*

**Noreika, Norbertas** (2009). New records of rare species of Coleoptera found in Ukmergė district in 2004–2005. *New and Rare for Lithuania Insect Species*, 21, 68–71.

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

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- 2021 – 2024 **Project leader (Principal investigator)**, PSG649 "Pesticide-induced food and macronutrient limitation in beneficial predatory arthropods in agroecosystems" (1.01.2021–31.12.2024); Estonian University of Life Sciences, Institute of Agricultural and Environmental Sciences, Chair of Plant Health; Financier: Estonian Research Council.
- 2019 – 2020 **Researcher**, V170272PKTE (773921-2) "Pan-european assessment, monitoring, and mitigation Of Stressors on the Health of BEEs " (1.06.2018–31.05.2023); Principal Investigator: Marika Mänd; Estonian University of Life Sciences, Institute of Agricultural and Environmental Sciences (partner); Financier: European Commission.
- 2016 – 2018 **Researcher**, SLTOM16131T (TK131) "Ecology of global change: natural and managed ecosystems (TK131)" (1.01.2016–1.03.2023); Principal Investigator: Martin Zobel; University of Tartu, Faculty of Science and Technology, Institute of Ecology and Earth Sciences (partner); Financier: Archimedes Foundation.
- 2016 – 2018 **Researcher**, IUT20-29 "Dark diversity: taxonomic, phylogenetic, functional and genetic levels in dynamic plant communities" (1.01.2014–31.12.2019); Principal Investigator: Meelis Pärtel; University of Tartu, Faculty of Science and Technology, Institute of Ecology and Earth Sciences; Financier: Estonian Research Council

## **INTERNSHIP AND TRAINING**

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- 01.01.2018–31.12.2019 Swedish University of Agricultural Sciences, Department of Ecology, Uppsala, Sweden, Post-Doc
- 01.05.2016–30.06.2018 University of Tartu, Faculty of Science and Technology, Institute of Ecology and Earth Sciences, Post-Doc

## **PARTICIPATION IN SCIENTIFIC CONFERENCES**

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### ***International scientific conferences:***

17–22/07/2022 – 16th International Congress of Entomology in Helsinki, Finland (Oral presentation: “Pesticide-induced food and macronutrient limitation in beneficial predatory beetles in agroecosystems”)

3–5/03/2020 – 4th Conference of The Nordic Society Oikos in Reykjavik, Iceland (Poster presentation: “Restoration increases community completeness: meta-analyses across ecosystems and ecological groups”)

15–19/10/2017 – 2nd Global Soil Biodiversity Conference in Nanjing, China (Oral presentation: “Positive biodiversity-productivity relationships of plants and soil fungi in old-growth boreo-nemoral forests”)

20–25/09/2015 – 17th European Carabidologists' Meeting in Primošten, Croatia (Oral presentation: “Urban mires as hotspots of carabid beetle diversity”)

2–6/08/2015 – 27th International Congress for Conservation Biology and the 4th European Congress for Conservation Biology in Montpellier, France (Oral presentation: “Urban mires remain hotspots of epigaeic arthropod diversity despite the detrimental effects of urbanization”)

2–5/12/2014 – 1st Global Soil Biodiversity Conference in Dijon, France (Poster presentation: “The effects of drainage and restoration of mires on peat-associated invertebrates”)

6–11/10/2013 – 5th World Conference on Ecological Restoration in Madison, Wisconsin, USA (Oral presentation: “The effects of ecological restoration on drained pine bog arthropods in Eastern Finland”)

23–27/08/2011 – 15th European Carabidologists' Meeting in Daugavpils, Latvia (Oral presentation: “Forest edge contrasts have a predictable effect on the spatial distribution of carabid beetles in urban forests”)

## **PARTICIPATION IN THE STUDY PROCESS**

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### ***Supervision of PhD students:***

Scientific area: *Natural Sciences* (N000). Scientific field: *Zoology* (N014)

<b>Ieva</b>	Title of the dissertation: „Pesticide effects on nutritional	2022-10-01 –
<b>Olechnavičiūtė</b>	ecology of carabid beetles“	2026-09-30

## **OTHERS**

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### **Honours & awards**

- 2018 The Carl Tryggers Foundation, postdoctoral research scholarship  
 2016 The Carl Tryggers Foundation, postdoctoral research scholarship  
 2015 LUOVA's Travel Grant (University of Helsinki)  
 2015 Dissertation Completion Grant (University of Helsinki)  
 2015 Chancellor's Travel Grant (University of Helsinki)  
 2014 LUOVA's Travel Grant (University of Helsinki)  
 2013 Chancellor's Travel Grant (University of Helsinki)  
 2012 The Otto A. Malm Foundation, doctoral research grant

### **Scientific expertise**

- 2020–until now Editor for *WoS* journal “Restoration Ecology” (IF: 4.18)  
 2020 Expert for Research and Development funding organizations: National Research, Development and Innovation Office, Hungary  
 2015–until now Referee for *WoS* journals: Agriculture, Ecosystems & Environment, Biological Invasions, Oecologia, Journal of Applied Ecology, Biological Conservation, Biodiversity and Conservation, Basic and Applied Ecology, Journal of Insect Conservation, Bulletin of Entomological Research, Ecology and Evolution, Environmental Research, Restoration Ecology, Oryx, Plos One

### **Evaluation committee member of PhD thesis**

- 2022, Nazim Nikiforov, Vytautas Magnus University, Kaunas, Lithuania. Thesis title: "The integrated assessment of the Ishim river water pollution of the North Kazakhstan region and the impact on population health".  
 2020, Matas Galdikas, Vytautas Magnus University, Kaunas, Lithuania. Thesis title: "Genetic diversity of *Dermacentor reticulatus* ticks in Europe".  
 2020, Vilma Jeršovienė, Nature Research Centre, Vilnius, Lithuania. Thesis title: "Prevalence of HPV among couples with infertility problems in Lithuania".

### **Professional memberships**

- 2004–until now Member of Lithuanian Entomological Society

### **Science popularization activities**

#### **Talks given at seminars (involving stakeholders of nature conservation)**

- 05/10/2015 – Round table seminar of The Finnish Expert Group of Peatland Restoration (Suo-ELO) at Metsähallitus (Parks & Wildlife Finland), Vantaa, Finland (Oral presentation: “Specialist butterflies benefit most from the ecological restoration of mires”)  
 09/04/2014 – Round table seminar of The Finnish Expert Group of Peatland Restoration (Suo-ELO) at Metsähallitus (Parks & Wildlife Finland), Vantaa, Finland (Oral presentation: “Rapid response and recovery of invertebrate communities to the restoration of pine bogs”)

**Education for schoolchildren**

2007–2009                      Founder and curator of the School for Young Entomologists at Lithuanian Entomological Society

**Interviews**

2022.08.26 – interview for TV3.lt (<https://www.tv3.lt/naujiena/gyvenimas/dalios-pomidorus-uzpuolusios-lervos-sukele-audra-internete-isdave-ka-su-jomis-daryti-n1185067>)

**Popular articles**

Noreika, Norbertas (2022). Trumpasparniai vabalai sunaikina galybę kenkėjų. Mano Ūkis, 48–49, 01.09.2022

Noreika, Norbertas (2023). Boružės – darbščiosios žemdirbių pagalbininkės. Mano Ūkis, 42–44, 02.01.2023