

Laura Gedminiene

CONTACT INFORMATION

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EDUCATION AND ACADEMIC DEGREE

- 2015 – 2019 **Doctoral degree** in Natural sciences field of Geology (005 N, Geology) (Vilnius University and State Scientific Research Institute Nature Research Centre). Dissertation topic: "The influence of natural and anthropogenic factors on the development of lateglacial and holocene (a)biotic palaeoenvironment in the southeastern flank of the last Scandinavian glaciation", supervisor - dr. M. Stančikaitė. Field of research: Paleoenvironmental studies of the Postglacial period based on lake bottom sediments.
- 2013 – 2015 **Master's studies**, Vilnius University. Study field: Environmental; study programme: Environmental studies and Management. Magna cum laude diploma.
Master's thesis topic: "The assessment of natural environmental condition change and anthropogenic impact based on palaeobotanical and geochemical analysis of Dūkštelis Lake sediments", supervisor Assoc. dr. G. Ignatavičius
The work was carried out at Vilnius University and Institute of Geology and Geography.
Field of research: paleobotanical and geochemical studies of lake sediments.
- 2009 – 2013 **Geology Bachelor**. Vilnius University, Department of Geology and Minerology.
Thesis topic: „Lateglacial environmental changes in southeastern lithuania on an example from Ūla-2 outcrop pollen data“.
The work was carried out at Vilnius University and Institute of Geology and Geography.
Field of research: paleobotanical studies of sediments.

PROFESSIONAL EXPERIENCE

- 2025 – now **Senior researcher**
Laboratory of Quaternary Research, State Scientific Research Institute Nature Research Centre
- 2022 – 2024 **Postdoctoral internship**
Vilnius University, Faculty of Chemistry and Geosciences
- 2020 – 2025 **Researcher**
Laboratory of Quaternary Research, State Scientific Research Institute Nature Research Centre
- 2015 – 2020 **Senior laboratory assistant, engineer, junior researcher**
Laboratory of Quaternary Research, Institute of Geology and Geography, Nature Research Centre

2014 – 2018

Geologist
UAB “J. Jonyno ecofirma”

RESEARCH INTERESTS

Palaeoenvironmental research which include pollen and spore, NPP analyses, lithological (loss-on-ignition, grain size, magnetic susceptibility) and geochemical composition of sediments analyses. Currently working of vegetation SedaDNA data. The investigated objects are bottom sediments of lakes and bogs, soil and archaeological layers. The researched period includes lateglacial, interglacial, Holocene, Anthropocene. Application of various simulations, visualization of multi-proxy research data and reconstructions of chronological sequences are used in order to evaluate the development of vegetation and environment, dynamics of ecosystems, perform climate reconstructions, establish causality and relationships of fixed changes with factors of local significance and global scale

Paleoclimate, paleoecology, geology, geochemistry, palynology, sedimentology, stratigraphy, sedimentation basins, Quaternary geology, geochronology, lithology, magnetic susceptibility.

-Reconstructions of the history of vegetation in the context of natural and anthropogenic environment.

-Understanding of the (a)biotic parameters response to environmental changes including changes of the climate in space and time

-The evaluation of the interdependence of biotic and abiotic environmental parameters.

-Assessment of the changes fixed in the (a)biotic environment in relation to various-scale natural (astronomical, global, regional, and local) and anthropogenic factors.

PUBLICATIONS

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

1. Trasune, L., Salonen, J. S., Stivrins, N., Amon, L., Stančikaitė, M., **Gedminienė, L.**, Veski, S., Schenk, F. 2026. High temperature seasonality as a signature of late-Quaternary AMOC weakening in Northern Europe. *Quaternary Science Reviews*, 376, 109843. <https://doi.org/10.1016/j.quascirev.2026.109843>
2. Kluczynska, G., **Gedminienė, L.**, Stančikaitė, M., Žulkus, V., Girininkas, A., Rimkus, T., Daugnora, L., Petkuvienė, J., Skuratovič, Ž. 2025. A new insights of the mid-late Holocene environmental history in the E Baltic – multi-proxy data from Aukštumala raised bog, W Lithuania. *Quaternary International*, 750, 109993. ISSN 1040-6182. <https://doi.org/10.1016/j.quaint.2025.109993>
3. **Gedminienė, L.**, Stoof-Leichsenring, K. R., Herzsuh, U., Vaikutienė, G., Stančikaitė, M., Skuratovič, Ž., Uogintas, D., Spiridonov, A. 2025. Effects of Lateglacial and Holocene climate change on southern Baltic environments: a plant sedaDNA and diatom sediment record. *Quaternary International*, 741, 109899. <https://doi.org/10.1016/j.quaint.2025.109899>
4. Vaikutienė, G., Daumantas, L., Balakauskas, L., **Gedminienė, L.**, Skuratovič, Ž., Mažeika, J. 2025. Response of freshwater diatoms to Early–Middle Holocene climate changes, SW Lithuania. *Quaternary International*, 730–731, 109794. <https://doi.org/10.1016/j.quaint.2025.109794>
5. **Gedminienė, L.**, Spiridonov, A., Stančikaitė, M., Skuratovič, Ž., Vaikutienė, G., Daumantas, L., Salonen, J.S. 2025. Temporal and spatial climate changes in the mid-Baltic region in the Late Glacial and the Holocene: Pollen-based reconstructions. *CATENA*, 252, 108851. <https://doi.org/10.1016/j.catena.2025.108851>
6. Balakauskas, L., **Gedminienė, L.**, Skuratovič, Ž., Lalaitė, R., Vaikutienė, G. 2024. Environmental changes in SW Lithuania during 8720–7990 cal yr BP: analysis of Lake Amalvas sediments. *Baltica*, 37 (2), p. 180-190. Doi <https://doi.org/10.5200/baltica.2024.2.8>
7. Pukelytė, V., Gedminienė, L., Baltrūnas, V., Karmaza, B. 2024. Stadial and interstadial deposits

- of Late Nemunas (Late Weichselian/MIS 2) glaciation in south Lithuania and their interpretation. *Quaternary International*. <https://doi.org/10.1016/j.quaint.2024.05.003>.
8. Stankevičius, Ž., Zinkutė, R., Suzdalev, S., **Gedminienė, L.**, Baužienė, I., Taraškevičius, R. 2023. Search for the Substantiation of Reasonable Native Elemental Background Values and Reference Variables in Topsoil on Glaciogenic and Postglacial Deposits in a Vilnius Peri-Urban Area. *Minerals*, 13 (12), 1513, p. 1-36.
 9. Druzhinina, O., Gedminienė, L., van den Berghe, K. 2022. Metals in Lake Sediments as Indicators of Human Activities in Prehistory: Case Study of the Southeastern Baltic, Kamyshovoe Lake. *Minerals*, 12(10), 1216, 1–13.
 10. Druzhinina, O., Stančikaitė, M., **Gedminienė, L.**, Vaikutienė, G., Lavrova, N., Kublitskiy, Y., Subetto, D. 2022. Anthropogenic impact on the landscape of the Vishtynets Upland (Kaliningrad region, SE Baltic) in prehistory and Middle Ages: A multi-proxy palaeoenvironmental study. *Quaternary International*, 1–15.
 11. Druzhinina, O., **Gedminiene, L.**, van den Berghe, K. 2022. Geochemical Study of the Iron Age Settlement Occupational Layer and the Early Roman Time Agricultural Layer at Voorthuizen, The Netherlands. *Minerals*, 12 (3), 219–231.
 12. Stančikaitė, M., Zernitskaya, V., Kluczynska, G., Valūnas, D., **Gedminienė, L.**, Uogintas, D., Skuratovič, Ž., Vlasov, B., Gastevičienė, N., Ežerinskis, Ž., Šapolaitė, J., Šeirienė, V. 2022. The Lateglacial and Early Holocene vegetation dynamics: New multi-proxy data from the central Belarus. *Quaternary International*, 630, 121–136.
 13. Šeirienė, V., Gastevičienė, N., Luoto, T.P., **Gedminienė, L.**, Stančikaitė, M. 2021. The Lateglacial and early Holocene climate variability and vegetation dynamics derived from chironomid and pollen records of Lieporiai palaeolake, North Lithuania. *Quaternary International*, 605–606, 55–64.
 14. Kublitskiy, Y., Kulkova, M., Druzhinina, O., Subetto, D., Stančikaitė, M., **Gedminienė, L.**, Arslanov, K. 2020. Geochemical Approach to the Reconstruction of Sedimentation Processes in Kamyshovoye Lake (SE Baltic, Russia) during the Late Glacial and Holocene. *Minerals*, 10 (9), 764.
 15. Druzhinina, O., Kublitskiy, Y., Stančikaitė, M., Nazarova, L., Syrykh, L., **Gedminienė, L.**, Uogintas, D., Skipityte, R., Arslanov, K., Vaikutienė, G., Kul'kova, M., Subetto, D. 2020. The Late Pleistocene - Early Holocene palaeoenvironmental evolution in the SE Baltic region: a new approach based on chironomid, geochemical and isotopic data from Kamyshovoye Lake, Russia. *Boreas*, 49(3), 544–561.
 16. Šeirienė, V., Šinkūnas, P., Stančikaitė, M., Kisieliene, D., **Gedminienė, L.** 2019. Late Middle Pleistocene interglacial sediments from Buivydziai site, eastern Lithuania: the problem of chronostratigraphic correlation. *Quaternary International*, 534, 18–29.
 17. Spiridonov, A., Balakauskas, L., Stankevič, R., Kluczynska, G., **Gedminienė, L.**, Stančikaitė, M. 2019. Holocene vegetation patterns in southern Lithuania indicate astronomical forcing on the millennial and centennial time scales. *Scientific reports*, 9 (14711), 1–15.
 18. Stančikaitė, M., **Gedminienė, L.**, Edvardsson, J., Stoffel, M., Corona, C., Gryguc, G., Uogintas, D., Zinkutė, R., Skuratovič, Ž., Taraškevičius, R. 2019. Holocene vegetation and hydroclimatic dynamics in SE Lithuania–Implications from a multi-proxy study of the Čepkeliai bog. *Quaternary International*, 501(A), 219–239.
 19. Stančikaite, M., Simniškytė, A., Skuratovič, Ž., **Gedminienė, L.**, Kazakauskas, V., Uogintas, D. 2019. Reconstruction of the Mid- to Late- Holocene history of vegetation and land-use in Petrešiūnai, north-east Lithuania: implications from palaeobotanical and archaeological data. *Quaternary International*, 516, 5–20.
 20. **Gedminienė, L.**, Šiliauskas, L., Skuratovič, Ž., Taraškevičius, R., Zinkutė, R., Kazbaris, M., Ežerinskis, Ž., Šapolaitė, J., Gastevičienė, N., Šeirienė, V., Stančikaitė M. 2019. The Lateglacial-Early Holocene dynamics of the sedimentation environment based on the multi-proxy abiotic study of Lieporiai palaeolake, Northern Lithuania. *Baltica*, 32 (1), 91–106.
 21. Dietze, E., Theuerkauf, M., Bloom, K., Brauer, A., Dörfler, W., Feeser, I., Feurdean, A.,

- Gedminienė, L.**, Giesecke, T., Jahns, S., Kołaczek, M., K., Kołaczek, P., Lamentowicz, M., Latałowa, M., Marcisz, K., Obremaska, M., Pędziszewska, A., Poska, A., Rehfeld, K., Stančikaitė, M., Stivrins, N., Musznicka, J., S., Szal, M., Vassiljev, J., Veski, S., Wacnik, A., Weisbrodt, D., Wiethold J., Vannièrè, B., Słowiński, M. 2018. Holocene fire activity during low-natural flammability periods reveals scale-dependent cultural human-fire relationships in Europe. *Quaternary Science Reviews*, 201, 44–56.
22. Taraškevičius, R., Zinkutė, R., **Gedminienė, L.**, Stankevičius, Ž. 2018. Hair geochemical composition of children from Vilnius kindergartens as an indicator of environmental conditions. *Environmental Geochemistry and Health*, 1–24.
23. Edvardsson, J., Stančikaitė, M., Miras, Y., Corona, C., Gryguc, G., **Gedminienė, L.**, Mažeika, J., Stoffel, M. 2018. Late-Holocene vegetation dynamics in response to a changing climate and anthropogenic influences—Insights from stratigraphic records and subfossil trees from southeast Lithuania. *Quaternary Science Reviews*, 185, 91–101.
24. Taraškevičius, R., Motiejūnaitė, J., Zinkutė, R., Eigminienė, A., **Gedminienė, L.**, Stankevičius, Ž. 2017. Similarities and differences in geochemical distribution patterns in epiphytic lichens and topsoils from kindergarten grounds in Vilnius. *Journal of Geochemical Exploration*, 183, B(SI) 152–165.

Articles in publications of other databases

1. **Gedminienė, L.** 2020. Gamtinių ir antropogeninių veiksnių įtaka vėlyvojo ledynmečio ir holoceno (a)biotinės aplinkos raidai = Influence of natural and anthropogenic factors on the development of the late ice age and Holocene (A)biotic environment // *Geologijos akiračiai*. Vilnius: Lietuvos geologijos sąjunga. ISSN 1392-0006, Nr. 3-4, p. 13-24.
2. Taraškevičius, R., Zinkutė, R., **Gedminienė, L.** 2019. Galimai pavojingi cheminiai elementai Vilniuje - interkoreliacijų paieškos // *Geologijos akiračiai*. Vilnius: Lietuvos geologijos sąjunga. ISSN 1392-0006, Nr. 3-4, p. 6-9.

APPLIED SCIENTIFIC WORKS

1. Satkūnas, J.; Mikulėnas, V.; Satkūnienė, I.; Purnas, V.; Gedminienė, Laura; Damušytė, A. 2024. Glacial geoheritage of Lithuania. Guide of the field seminar. Annual meeting of EuroGeoSurveys Geoheritage expert group (EGS GhEG) 22-25 April, 2024. Vilnius: Lietuvos geologijos tarnyba, 23 p
2. Mikulėnas, V.; Satkūnienė, I.; Gedminienė, L.; Uogintas, D. 2023. Karst evolution, sinkholes, caves, springs, lakelets: Pasvalys town and peculiarities of Biržai Regional Park: Field trip guide, 3rd crossing the palaeontological-ecological gap – CPEG conference. Vilnius Nature Research Centre, Geological Society of Lithuania, Lithuanian Geological Survey, 22 p.

PARTICIPATION IN INTERNATIONAL AND NATIONAL SCIENTIFIC PROGRAMMES AND PROJECTS

- 2024 – now **Expert in COST activities**
- 2024 – now **Representative of the COST** (CA23116, Open Palaeoecological Data - analysing the past building foresight (PalaeOpen)) representative and committee in Lithuania. Implementation of the project's activities groups.
- 2023 – 2024 **Project leader.** Supervisor of student research during the semester: “The influence of peat decomposition on sediment lithology and geochemical composition: reducing potential CO₂ emissions” (P-ST-23-164). Funded by the Research Council of Lithuania (LMT).
- 2020 – 2017 **Researcher.** Holocene multi-proxy environmental reconstructions and climate dynamics: spatial and temporal context”. Leading scientist: Dr. M. Stančikaitė. 2017–2020. (-S-MIP-17-133). LMT.
- 2017 – 2017 **Project manager.** Lithuanian geology society (academic association) project “Integration of geological information in the daily work to the public and

environment educators through creative training. Geological seminars for workers in protected areas”. Research Council of Lithuania. Other leading scientists dr. J. Šečkus, J. Vaznytė, dr. G. Skridlaitė, S. Saarmann.

2015 – 2015 **Project manager.** Lithuanian geology society (academic association) project “Mobile creative geology lessons for young people”. Research Council of Lithuania. Other leading scientists dr. R. Guobytė, L. Gedminienė, S. Saarmann.

2013 – 2014 **Project manager. Researcher.** “Promotion of Student's Scientific Activity”, four programs 2013-2014.

Student research. “Changes in the ecosystem and their relation to the dynamics of population activity in Late Holocene”. Leading scientist dr. Miglė Stančikaitė. 2014 09 22 – 2014 12 22;

Student's scientific practice. “The dependence of the distribution of geochemical elements in lake sediments on paleoclimatic and anthropogenic changes”. Leading scientist dr. Gytautas Ignatavičius. 2014 06 30–2014 08 28;

Student research. “Changes in the vegetation during the Holocene in eastern Lithuania: the dependence of natural and anthropogenic factors on the role of the palaeoclimatic and anthropogenic changes”. Leading scientist dr. Miglė Stančikaitė. 2014 02 24–2014 05 24;

Student research. “The peculiarities of the formation of the Lateglacial in eastern Lithuania: the relation between regional climatic fluctuations and local conditions”. Leading scientist dr. Miglė Stančikaitė. 2013 09 23–2013 12 23.

Collaboration in the implementation of research material in international projects:

2018–2020 **Researcher.** International project “Reconstruction of the history of the largest lakes in the center of the Eastern European Plain over the last 20 thousand years: the basis for forecasting changes in the lakes ecosystems in the 21st century” (18-77-00083). Russian Science Foundation. Project manager: dr. E. Konstantinov.

from 2009 **Researcher.** International project “Evolution of the South-East Baltic Environment at the turn of the Pleistocene and Holocene and the stages of the early colonization of the region” (RFBR No 09-06-00150 / 12-05-33013). Project manager: dr. Olga Druzhinina. Start of the project in 2009

2016–2018 **Implementation of research material.** International project "Paleofire reconstructions in the Central European lowlands". Polish Academy of Sciences PAN, University of Greifswald, Netherlands Institute for Marine Research (NIOZ) Texel, GFZ sections 5.1 and 3.2. Project manager: Dr. Elisabeth Dietze. 2016–2018

INTERNSHIP AND TRAINING

2026 PalaeOpen stakeholder workshop on long-term fire risk taking place in Zaragoza, Spain, 27–29 April 2026.

2026 Biodiversity data mobilization – standards, publishing and validation workshop of GBIF.

2025 Training, Gottingen, Germany. 10th NPP Workshop. Nomenclature, Neotoma Database and Data Harmonization. June 2-6, 2025.

2024 Introductory data analysis in R: a language and environment for statistical computing

2024 Modern Pollen Studies Workshop: Estimating Pollen Productivity. XV International Palynological Congress, XI International Organization of Palaeobotany Conference, held on 27-31 May 2024 in Prague, Czech Republic. Martin Theuerkauf.

- 2024 Training, VU Life Sciences Center, February 26-29, 2024. EMBO 4-day training "Laboratory Leadership" for young scientists.
- 2023 Internship in Germany, Alfred Wegener Institute, Potsdam, Germany, 2023-03-22 - 04-30. During the internship, laboratory sample preparation and processing for sedaDNA studies was carried out.
- 2022 – 2024 **Postdoctoral fellowship.** Effects of global climatic and human expansion events on the plant paleocommunities in the southern Baltic region. Vilnius university. Leading scientist Vilnius University, Faculty of Chemistry and Geosciences prof. dr. Andrej Spiridonov.
- 2022 09 Greifswald, Germany. Open scientific workshop "DISCOVER-Workshop Quantitative landcover reconstructions from pollen data with R-tools". Workshop leader: Martin Theuerkauf. September 13.-16. 2022
- 2022 06 Charles University, Faculty of Science, department of Botany. European Pollen Database Open Science Meeting and workshops. „An introduction to quantitative climate reconstructions in R“ by Basil Davies and „Quantitative land-cover reconstructions“ by Martin Theuerkauf and Vojtech Abraham. Prague 2, Czech Republic. June 1–3, 2022.
- 2018 3rd International Conference “Palaeolimnology of Northern Eurasia: experience, methodology, current status” and young scientists’ school in microscopy skills in palaeolimnology. Kazan Federal University, Kazan Russian Federation.
- 2017 Institute of Geology, Tallinn University of Technology, Tallinn, Estonia. 2017. Methodological issue – preparation of pollen samples applying HF. Workshop leader dr. Siim Veski.
- 2016 An INTIMATE Example Research and Training School. Stara Kiszewa, Poland. 2016. Workshop leaders Michał Słowiński, Achim Brauer, Stefan Engels, Mariusz Lamentowicz, Sune Olander Rasmussen, Christine Lane.

PARTICIPATION IN SCIENTIFIC CONFERENCES

International scientific conferences:

1. Šujan, M., Bitinas, A., **Gedminienė, L.**, Braucher, R., Chyba, A., Vlček, T., Kováčová, M., Davydov, O., Damušytė, A., Juilleret, J., Pan, R., Aherwar, K., Rozsová, B., Steffen, H. 2025. Paleoenvironmental changes preceding the first Quaternary continental glaciation in Lithuania. RCMNS interim colloquium, May, 2025, in Vienna, Austria. DOI: 10.13140/RG.2.2.13419.66088
2. Šujan, M., Bitinas, A., Braucher, R., Chyba, A., **Gedminienė, L.**, Vlček, T., Davydov, O., Damušytė, A., Juilleret, J., Pan, R., Aherwar, K., Rozsová, B., Steffen, H. 2025. At the roots of the Eridanos paleo-river: Fluvial depositional systems preceding the Early Quaternary ice sheet onset in the Baltic region (Lithuania, NE Europe). 38th IAS meeting 2025 „Clastic sedimentology“, June 26-28, 2025, in Huelva, Spain. ISBN 978-84-09-70736-2
3. Šujan, M., Bitinas, A., Steffen, H., **Gedminienė, L.**, Kováčová, M., Vlček, T., Pan, R., Chyba, A., Davydov, O., Damušytė, A., Juilleret, J., Aherwar, K., Rozsová, B. 2025. Tracing the pre-glacial legacy: Evolution of the Daumantai Formation beneath the oldest Quaternary moraines in Lithuania. International Field Symposium “Quaternary Stratigraphy, Paleoenvironments and Geoarchaeology in central Germany”, August 25-29, 2025, in Michaelstein Abbey, Germany. https://inqua-peribaltic.ut.ee/wp-content/uploads/sites/112/Peribaltic-2025_Program-Abstracts.pdf
4. **Gedminienė L.**, Stoof-Leichsenring K., Herzsuh U. 2025. Environmental Dynamics of the Southern Baltic Region revealed by plant sedaDNA and Diatom. 2nd sedaDNA Scientific

Society Conference, Tromsø, Norway, June 23-26 2025, book of abstracts, 131 p.
https://github.com/ArcEcoGen/sedaDNA/blob/main/Book_of_abstracts.pdf

5. **L., Gedminienė.** 2025. Integrating pollen and non-pollen palynomorph (NPP) analyses for enhanced paleoenvironmental reconstruction in medieval archaeological contexts. The 10th NPP Workshop. Göttingen, Germany, 2-6 June 2025, book of abstracts.
6. Vaikutienė, G., **Gedminienė, L.**, Skuratovič, Ž., Mažeika, J. 2024. Response of diatoms to the Early Holocene climate changes, SW Lithuania. International Field Symposium “Quaternary Sediments, Landscapes and Early Settlement History in Western Estonia”, August 25-30, 2024, in Pärnu, Estonia. <https://inqua-peribaltic.ut.ee/wp-content/uploads/sites/112/PWG2024-Abstract-Volume-2.pdf>
7. **Gedminienė, L.**, Vaikutienė, G., Salonen, S. J. 2024. Quantitative pollen-based climate reconstructions for Lateglacial and Holocene periods deduced from Dukstelis Paleolake data. International Field Symposium “Quaternary Sediments, Landscapes and Early Settlement History in Western Estonia”, August 25-30, 2024, in Pärnu, Estonia.
8. **Gedminienė, L.**, Spiridonov, A., Stančikaitė, M., Skuratovič, Ž., Vaikutienė, G. 2024. Temporal and spatial changes in pollen-based climate reconstructions for Lateglacial and Holocene in mid-Baltic region. XV International Palynological Congress, XI International Organization of Palaeobotany Conference, held on 27-31 May 2024 in Prague, Czech Republic. IPC-IOPC 2024: Abstract book, edited by: J. Bek, J.V. Frojdova. ISBN:978-80-908364-6-4. 259 p.
9. Satkūnas J., Mikulėnas V., Satkūnienė I., Puronas V., **Gedminienė L.**, Damušytė A. 2024. Glacial Geoheritage of Lithuania. Guide of the field seminar. Annual meeting of EuroGeoSurveys Geoheritage expert group (EGS GhEG) 22–25 April, 2024. Lithuanian Geological Survey, Geological Society of Lithuania, Nature Research Centre. Vilnius, 2024. – 23 [2] p.
10. **Gedminienė, L.**, Spiridonov, A., Stančikaitė, M., Skuratovič, Ž., Vaikutienė, G., Stoof-Leichsenring, K. 2023. IMPACT OF CLIMATE ON LATEGLACIAL AND HOLOCENE VEGETATION: A COMPARISON OF PALYNOLOGICAL AND SEDA-DNA DATA. 3RD Crossing the Palaeontological - Ecological Gap conference. Abstract book. Vilnius University Press, 2023. DOI: <https://doi.org/10.15388/Proceedings.2023.35>
11. **Gedminienė, L.**, Pukelytė-Baltrūnienė, V., Baltrūnas, V. 2023. The transition from glacial to interstadial in the lithosedimentary and pollen records from Balbieriškis outcrop, Late Weichelian glaciation in South Lithuania. XXI INQUA (International Union for Quaternary Research) Congress-time for change. July 14th – 20th 2023, Sapienza University of Rome, Italy“.
12. **Gedminienė, L.**, Spiridonov, A., Stančikaitė, M., Skuratovič, Ž., Vaikutienė, G., Stoof-Leichsenring, K. 2023. Understanding changes in plant paleocommunities in the southern baltic region during postglacial global climatic and human expansion events. XXI INQUA (International Union for Quaternary Research) Congress-time for change. July 14th – 20th 2023, Sapienza University of Rome, Italy.
13. **Gedminienė, L.**, Spiridonov, A., Stančikaitė, M., Vaikutienė, G., Stoof-Leichsenring, K., Herzsuh, U. 2023. Vegetation reconstruction of the post-glacial environmental variations in SE Lithuania: comparing sedaDNA and pollen data. International conference and workshop „SedaDNA Meeting Potsdam: Shedding light on current developments in Paleo Ecological Genomics“, 4-11 June, 2023, Potsdam, Germany.
14. **Gedminienė, L.**, Pukelytė, V. 2023. Lithosedimentary and pollen-spore record changes through

the transition from stadial to interstadial during Late Nemunas glaciation according to the research of Balbieriškis outcrop, south Lithuania. 81st International scientific conference of the University of Latvia 2023: Natural sciences: Geology, geophysics & palaeoecology, 9th-10th February, 2023, abstract book, 59-60 p.

15. Kluczynska, G., **Gedminienė, L.**, Žulkus, V., Girininkas, A., Rimkus, T., Daugnora, L., Petkuvienė, J., Skuratovič, Ž., Uogintas, D., Stančikaitė, M. 2022. The history of Mid-to-Late Holocene environment dynamics: new multi-proxy study from the Eastern Baltic region, W Lithuania. In Quaternary of the Eastern Baltic Region: excursion guide and abstracts of international field symposium: 10-15 September, Latvia-Lithuania (pp. 25-26). Gamtos tyrimų centras. [142078394 \(2\).pdf](#)
16. Pukelytė, V., Baltrūnas, V., Karmaza, B., **Gedminienė, L.** 2022. Features of the area formation of middle and northern Lithuania lowlands. In Quaternary of the Eastern Baltic Region: excursion guide and abstracts of international field symposium: 10-15 September, Latvia-Lithuania (pp. 32-33). Gamtos tyrimų centras. [142078394 \(2\).pdf](#)
17. **Gedminienė, L.** 2022. Reconstruction of the post-glacial environmental variations based on the multi-proxy approach: Dūkštelis Lake, Eastern Lithuania European Pollen Database. Open Science Meeting. June 1–3, 2022, Prague.
18. Gastevičienė, N., Šeirienė, V., Luoto, T.P., Stančikaitė, M., Zernitskaya, V.P., **Gedminienė, L.** 2022. The Lateglacial and Early Holocene climate and environmental changes based on the Chironomidae study of the north Lithuania and central Belarus. 80th International Scientific Conference of the University of Latvia, 2022 01 04.
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National scientific conferences:

1. Ūsaitė A., **Gedminienė L.** 2024. Durpių susiskaidymo įtaka nuosėdų litologijai ir geocheminei sudėčiai. Nacionalinė mokslinė konferencija "chemija ir geomokslai 2024" kovo 22 d. Vilniaus universiteto chemijos ir geomokslų fakultetas.
2. **Gedminienė L.**, Konstantinov E.A., Rudinskaya A.I., Vaikutienė G., Suzdalev S., Taraškevičius R. 2020. Preliminary results of the bottom sediments of lake Plescheevo (Yaroslavl region, Russia). Pirminiai Plescheevo ežero (Jaroslavl sritis, Rusija) dugno nuosėdų tyrimų rezultatai. Kasmetinė Geologijos krypties doktorantų konferencija.VU, Geologijos ir mineralogijos katedra.
3. **Gedminienė, L.** 2017. Holoceno augalijos istorija ir paleoaplinkos dinamika pietryčių Lietuvoje: tarpdalykiniai Čepkelių pelkės nuosėdų tyrimai. 10-oji jaunųjų mokslininkų konferencija. Bioateitis: gamtos ir gyvybės mokslų perspektyvos. 6-7 p.
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5. Nabažaitė, R., Taraškevičius, R., Zinkutė, R., **Gedminienė, L.** 2017. Klaipėdos archeologinių glazūruotų koklių cheminė sudėtis–miesto ekonominės raidos ir pavojingų sveikatai elementų sklaidos indikatoriai // 10-oji nacionalinė konferencija – Jūros ir Krantų tyrimai 2017, Palanga : konferencijos medžiaga : 2017 balandžio 26-28 d. [Klaipėda] : [Klaipėdos universiteto leidykla]. ISSN 2538-7243. 2017, p. 143-147. http://apc.ku.lt/krantai2017/wp-content/uploads/2017/05/knygele_maketas_2017_20170414.pdf
6. Taraškevičius, R., Suzdalev, S., **Gedminienė, L.** 2016. Cheminės analizės rezultatai aplinkosaugoje - pasirinkimo laisvė ir tapatumo problema // 9-oji nacionalinė konferencija – Jūros ir Krantų tyrimai 2016, Klaipėda : konferencijos medžiaga : 2016 balandžio 27-29 d. Klaipėda : [Klaipėdos universiteto leidykla], 2016. ISBN 978-9955-18-901-5. 202-206 pp..
7. **Gedminienė, L.**, Stančikaitė, M., Taraškevičius, R. 2015. Pagrindinių Dūkštelio ežero dugno nuosėdų komponentų, nustatytų kompleksinių tyrimų metu, tarpusavio priklausomybės vertinimas. Kasmetinė Geologijos krypties doktorantų konferencija.VU, Geologijos ir mineralogijos katedra.
8. **Gedminienė, L.**, Stančikaitė, M., Šinkūnas, P., Rudnickaitė, E., Vaikutienė, G. 2014. Palinologinių tyrimų taikymas paleoaplinkos ir klimato raidai įvertinti: Ūla-2 atodangos tyrimų pavyzdžiu. Aplinkos apsaugos inžinerija: 17-osios Lietuvos jaunųjų mokslininkų konferencijos „Mokslas–Lietuvos ateitis“ teminė konferencija. Technika. 57–64.

PARTICIPATION IN THE STUDY PROCESS

PHD DEFENSE COMMITTEE:

Bachelor Thesis Supervisor

Field of Science: Natural Sciences (N000). Field Branch: Geology (N005)

Augustė Usaitė Bachelor thesis title: “*Development of The Juodymas Bog based on lithological, geochemical and peat decomposition data*” Date: 2026-06-01

Supervisor of Students’ Scientific Internship

Field of Science: Natural Sciences (N000). Field Branch: Geology (N005)

Augustė Usaitė Topic: “*Impact of peat decomposition on sediment lithology and geochemical composition: reduction of potential CO₂ emissions*” (Contract No. S-ST-23-9) Period: 2023–2024

Member of the Doctoral Dissertation Defense Board

Field of Science: Natural Sciences (N000). Field Branch: Geology (N005)

Darja Dankina Dissertation title: “*Taxonomy, paleoecology, and biostratigraphy of Upper Permian ichthyofauna in the Baltic States and Poland*” Date: 2021-09-29

Evaluation of Bachelor Thesis

Field of Science: Natural Sciences (N000). Field Branch: Geology (N005)

Rugilė Lalaitė Bachelor thesis title: “*Natural processes in the vicinity of Lake Amalvas 9100–7300 cal BP according to loss-on-ignition analysis data*” Date: 2024-05-24

Member of the Doctoral Studies Examination Committee

Field of Science: Natural Sciences (N000). Field Branch: Geology (N005)

Olga Demina	Exam: "Theoretical and Applied Stratigraphy" (11 credits)	Date: 2023-02-27
Chair of the Doctoral Studies Examination Committee		
Field of Science: Natural Sciences (N000). Field Branch: Geology (N005)		
Irina Sosnina	Exam: "Theoretical and Applied Stratigraphy" (11 credits)	Date: 2022-05-26

OTHER

PARTICIPATION IN THE REVIEW PROCESS:

Yougui Song *, Xiulan Zong, Linbo Qian, Huifang Liu, Jibao Dong, Hong Chang, Mingyu Zhang. 2020. Mineralogical record for stepwise hydroclimatic changes in Lake Qinghai sediments since the last glacial period. *Minerals*, 2020, 10(11), 963; <https://doi.org/10.3390/min10110963>.

Bonuses, awards and other academic recognition

2025	The publication by Gedminienė et al. (2025) was ranked among the top five articles featured in the Quaternary Perspectives newsletter (Issue 39, December 2025). Such special collections typically highlight the most outstanding or scientifically significant contributions within a particular research theme. In this case, the selected works represent key topics from five continents, underscoring both the global reach of the journal Quaternary International (QI) and the mission of INQUA (the International Union for Quaternary Research) to connect scientists worldwide.
2018	Research council of Lithuania support for academic results
2017	3rd place for the oral presentation: „Holocene vegetation history and paleoenvironmental dynamics in southeastern Lithuania: interdisciplinary studies of the sediments of the Čepkeliai Swamp“ at the conference of young scientists Bioateitis perspectives of natural and life sciences
2014	2nd place for the oral presentation: "Palynology as a bridge between ecosystems and paleoecosystems." Late Glacial sedimentary environment of the Ūla River basin: an example from Ūla-2 outcrop". International conference of natural sciences The COINS.2014.
2011, 2012, 2013	Reimond, Albert and Wanda Yankun Scholarship

Other activities

2022–now	National delegate of Quaternary science in INQUA (International Union for Quaternary Research)
2022 – now	Chairwoman of the Quaternary Geology Section Geological society of Lithuania
2019 11 – now	Vice-chairman of Geological Society of Lithuania Geological society of Lithuania
2010 – 2019	Secretary of Geological society of Lithuania Geological society of Lithuania

Science dissemination publications (last 5 years)

1. Gedminienė, L., Bagdanavičiūtė, I., 2025. Nuo Medininkų aukštumų į Dieveniškų kilpą: geologinio paveldo pažinimo kelionė. *Geologijos akiračiai*, Nr. 3-4, 25–33.
2. Gedminienė, L. 2024. Ugdant gamtai neabejingus moksleivius. *Geologijos akiračiai*, Nr. 3-4, 42–44.
3. Skridlaitė, G., Gedminienė, L. 2024. Respublikinė geologijos olimpiada – ar Lietuvos mokiniai daug žino apie geologiją? *Geologijos akiračiai*, 1–2, 54–55.

4. **Gedminienė, L.**, Mikulėnas, V. 2024. Vingiuotais Aukštaitijos keliais – Iš depresijos dugno į rėminančias aukštumas. *Geologijos akiračiai*, 1–2, 37–42.
5. Satkūnas J., Mikulėnas V., Satkūnienė I., Puronas V., **Gedminienė L.**, Damušytė A. 2024. Glacial Geoheritage of Lithuania. Guide of the field seminar. Annual meeting of EuroGeoSurveys Geoheritage expert group (EGS GhEG) 22–25 April, 2024. Lithuanian Geological Survey, Geological Society of Lithuania, Nature Research Centre. Vilnius, 2024. – 23 [2] p.
6. **Gedminienė, L.** 2023. Teodoro Grotuso atminimo medaliu apdovanotas Dr. Jonas Satkūnas. Vilnis.
7. **Gedminienė, L.** 2023. XXI INQUA kongresas Romoje: tarptautinės kvartero tyrimų sąjungos tikslai, veikla ir iššūkiai. *Geologijos akiračiai*, 3–4, 63–65.
8. Rinkevičiūtė, S., **Gedminienė, L.** 2023. 3-iasis paleontologiją ir ekologiją sujungiantis simpoziumas Vilniuje. *Geologijos akiračiai*, 3–4, 79–80.
9. Mikulėnas V., Satkūnienė I., **Gedminienė L.**, Uogintas D. 2023. Karst evolution, sinkholes, caves, springs, lakelets: Pasvalys town and peculiarities of Biržai Regional Park / Field trip guide. 3rd Crossing the Palaeontological-ecological gap – CPEG. Conference. 31st August 2023. Nature Research Centre, Geological Society of Lithuania, Lithuanian Geological Survey. Vilnius, 2023 – 22 p.
10. **Gedminienė, L.** 2023. XXXII Lietuvos jaunųjų geologų olimpiada. *Geologijos akiračiai*, 1–2, 42–43.
11. Saarmann, S., **Gedminienė, L.** 2022. 36-oji jaunųjų geologų stovykla antalieptėje. *Geologijos akiračiai*, 3–4, 66–69.
12. Mikulėnas, V., Grigienė, A., **Gedminienė, L.** 2022. Geopaveldo diena karstėjančioje šiaurės Lietuvoje. *Geologijos akiračiai*, 3–4, 36–40.
13. **Gedminienė, L.** 2022. Kas skatina geologus nesustoti? XXXII Lietuvos geologų sąjungos suvažiavimas // *Geologijos akiračiai*. Vilnius : Lietuvos geologų sąjunga. ISSN 1392-0006. Nr. 1-2, p. 67-68.
14. **Gedminienė, L.**, Grigienė, A. 2021. Geologų keliai skatina nesustoti. XXXII geologų suvažiavimas // *Mokslo Lietuva*. Vilnius : UAB "Mokslininkų laikraštis". ISSN 1392-7191. Nr. 22, p. 5-6.
15. Mikulėnas, V., Grigienė, A., **Gedminienė, L.**, Satkūnas, J. 2021. Geologinio paveldo dienų tradicija Lietuvoje // *Geologijos akiračiai*. Vilnius : Lietuvos geologijos sąjunga. ISSN 1392-0006. Nr. 1-2, p. 53-56.
16. **Gedminienė, L.**, Vaznytė, J., Skridlaitė, G., Pajarskas, V., Augūnienė, A., Rudnickaitė, E. 2020. Jaunųjų geologų judėjimas 2019-2020 m. // *Geologijos akiračiai*. Vilnius : VŠĮ *Geologijos akiračiai*. ISSN 1392-0006. Nr. 1-2, p. 32-35.