

# Gražyna Kluczynska

## CONTACT INFORMATION

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## EDUCATION AND ACADEMIC DEGREE

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- 2011 – 2015 Doctor's degree in Geology, Nature Research Centre, Institute of Geology and Geography, Vilnius (PhD thesis: Peculiarities of vegetation changes recorded in lateglacial and Holocene sediments according to palaeobotanical data) Scientific supervisor – dr. Dalia Kisielienė.  
Field of studies: Post-glacial palaeoecosystem studies based on plant macrofossils analysis and chronological methods, using information obtained from pollen-spore, sediment composition (LOI) and isotopic ( $\delta^{18}\text{O}$  and  $\delta^{13}\text{C}$ ) studies.
- 2007 – 2009 Master's degree in Biology (Botany), Vilnius University, Faculty of Natural Sciences, Vilnius (Title: Vegetation history and environmental changes in the surroundings of Talša Lake, N Lithuania, during the last 14000 years. Scientific supervisor – dr. M. Stančikaitė). Research work was prepared at the Nature Research Centre, Institute of Geology and Geography.  
Field of studies: Lateglacial and Holocene palaeoenvironmental studies based on pollen-spores analysis and chronological methods.
- 2003 – 2007 Bachelor's degree in Biology, Vilnius University, Faculty of Natural Sciences, Vilnius (Title: The assessment of green areas system in Seinai city. Scientific supervisor - hab.dr. Evaldas Navys.  
Field of studies: systems of green areas, city greenery.

## PROFESSIONAL EXPERIENCE

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- 2018 10 – until now **Senior researcher** (Quaternary Research Laboratory, Nature Research Centre, Vilnius).
- 2015 – 2018 **Researcher** (Quaternary Research Laboratory, Nature Research Centre, Vilnius).
- 2011 – 2015 **PhD student** (Quaternary Research Laboratory, Nature Research Centre, Vilnius)
- 2010 – 2015 **Engineer** (Quaternary Research Laboratory, Nature Research Centre, Vilnius)

## RESEARCH INTERESTS

Field of studies: post-glacial environment and climate studies; the plant macrofossils, pollen-spores and sediment composition (LOI) studies of the marshy-lacustrine sediment sections; reconstruction of the post-glacial vegetation, palaeoecological conditions and palaeobasin evolution; analysis of the evolution of the biotic and abiotic components of the palaeoecosystem; the correlation of the environmental development and fixed climate events with the global and regional events.

## PUBLICATIONS

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

1. Stančikaitė, Miglė; Zernitskaya, Valentina; **Kluczynska, Gražyna**; Valūnas, Darius; Gedminienė, Laura; Uogintas, Domas; Skuratovič, Žana; Vlasov, Boris; Gastevičienė, Neringa; Ežerinskis, Žilvinas; Šapolaitė, Justina; Šeirienė, Vaida, 2022. The Lateglacial and Early Holocene vegetation dynamics: new multi-proxy data from the central Belarus. *Quaternary international*, vol. 630, p. 121-136. DOI: 10.1016/j.quaint.2021.05.004.
2. Spiridonov, Andrej; Balakauskas, Lauras; Stankevič, Robertas; **Gryguc, Gražyna**; Gedminienė, Laura; Stančikaitė, Miglė, 2019. Holocene vegetation patterns in southern Lithuania indicate astronomical forcing on the millennial and centennial time scales. *Scientific reports*, vol. 9, art. no. 14711, p. [1-15]. DOI: 10.1038/s41598-019-51321-7.
3. Stančikaitė, Miglė; Gedminienė, Laura; Edvardsson, Johannes; Stoffel, Markus; Corona, Christophe; **Gryguc, Gražyna**; Uogintas, Domas; Zinkutė, Rimantė; Skuratovič, Žana; Taraškevičius, Ričardas, 2019. Holocene vegetation and hydroclimatic dynamics in SE Lithuania - Implications from a multi-proxy study of the Cepkeliai bog. *Quaternary international*, vol. 501, p. 219-239. DOI: 10.1016/j.quaint.2017.08.039.
4. Edvardsson, Johannes; Stančikaitė, Miglė; Miras, Yannick; Corona, Christophe; **Gryguc, Gražyna**; Gedminienė, Laura; Mažeika, Jonas; Stoffel, Markus, 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*, vol. 185, p. 91-101. DOI: 10.1016/j.quascirev.2018.02.006.
5. Stivrins, Normunds; Soininen, Janne; Amon, Leeli; Fontana, Sonia L.; **Gryguc, Gražyna**; Heikkilä, Maija; Heiri, Oliver; Kisielienė, Dalia; Reitalu, Triin; Stančikaitė, Miglė; Veski, Siim; Seppä, Heikki, 2016. Biotic turnover rates during the Pleistocene-Holocene transition. *Quaternary science reviews*, vol. 151, p. 100-110. DOI: 10.1016/j.quascirev.2016.09.008.
6. Kabailienė, Meilutė; Vaikutienė, Giedrė; Macijauskaitė, Lina; Rudnickaitė, Eugenija; Guobytė, Rimantė; Kisielienė, Dalia; **Gryguc, Gražyna**; Mažeika, Jonas; Motuza Matuzevičius, Gediminas; Šinkūnas, Petras, 2015. Lateglacial and Holocene environmental history in the area of Samogitian Upland (NW Lithuania). *Baltica*, vol. 28, No. 2, p. 163-178. DOI: 10.5200/baltica.2015.28.14.
7. Veski, Siim; Seppä, Heikki; Stančikaitė, Miglė; Zernitskaya, Valentina; Reitalu, Triin; **Gryguc, Gražyna**; Heinsalu, Atko; Stivrins, Normund; Amon, Leeli; Vassiljev, Jüri; Heiri, Oliver, 2015. Quantitative summer and winter temperature reconstructions from pollen and chironomid data between 15 and 8 ka BP in the Baltic-Belarus area. *Quaternary international*, vol. 388, p. 4-11. DOI: 10.1016/j.quaint.2014.10.059.
8. Zernitskaya, Valentina; Stančikaitė, Miglė; Vlasov, Boris; Šeirienė, Vaida; Kisielienė, Dalia; **Gryguc, Gražyna**; Skipitytė, Raminta, 2015. Vegetation pattern and sedimentation changes in the context of the Lateglacial climatic events: case study of Staroje Lake (Eastern Belarus). *Quaternary international*, vol. 386, p. 70-82. DOI: 10.1016/j.quaint.2014.06.045.
9. Stančikaitė, Miglė; Šeirienė, Vaida; Kisielienė, Dalia; Martma, Tonu; **Gryguc, Gražyna**; Zinkutė, Rimantė; Mažeika, Jonas; Šinkūnas, Petras, 2015. Lateglacial and early Holocene environmental dynamics in northern Lithuania: A multi-proxy record from Ginkūnai Lake: a

- multi-proxy record from Ginkūnai Lake. *Quaternary international*, vol. 357, p. 44-57. DOI: 10.1016/j.quaint.2014.08.036.
10. **Gryguc, Gražyna**; Kisielienė, Dalia; Stančikaitė, Miglė; Šeirienė, Vaida; Skuratovič, Žana; Vaitkevičius, Vyktintas; Gaidamavičius, Andrejus, 2013. Holocene sediment record from Briauonis palaeolake, Eastern Lithuania: history of sedimentary environment and vegetation dynamics. *Baltica*, vol. 26, no. 2, p. 121-136. DOI: 10.5200/baltica.2013.26.13.
  11. Gaidamavičius, Andrejus; Stančikaitė, Miglė; Kisielienė, Dalia; Mažeika, Jonas; **Gryguč, Gražyna**, 2011. Post-glacial vegetation and environment of the Labanoras Region, East Lithuania: implications for regional history. *Geological quarterly*, vol. 55, iss. 3, p. 269-284.

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

1. Piličiauskas, Gytis; **Kluczynska, Gražyna**; Kisielienė, Dalia; Skipitytė, Raminta; Peseckas, Kęstutis; Matuzevičiūtė, Simona; Lukešová, Hana; Lucquin, Alexandre; Craig, Oliver E.; Robson, Harry K., 2020. Fishers of the corded ware culture in the Eastern Baltic. *Acta archaeologica*, vol. 91, iss. 1, p. 95-120. DOI: 10.1111/j.1600-0390.2020.12223.x.

***Other reviewed scientific publications (books, books' chapters, collections of articles, articles, textbooks and etc.):***

1. Žulkus, Vladas; Girininkas, Algirdas; Stančikaitė, Miglė; Gryguc, Gražyna; Šeirienė, Vaida; Mažeika, Jonas. In shores of the Yoldia sea and Ancylus lake. Maritime landscapes in the Lithuanian waters: multidisciplinary study // *The Baltic Sea - a Mediterranean of North Europe : in the light of archaeological, historical and natural science research from ancient to early medieval times = Bałtyk - Morzem Śródziemnym Europy Północnej : w świetle badań archeologicznych, historycznych i przyrodniczych od starożytności do wczesnego średniowiecza*. Gdańsk: Scientific Association of Polish Archaeologists Gdańsk Division, 2015. ISBN 9788385824671. p. 9-18.

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

1. **Gryguč, Gražyna**, 2015. Augalų makroliekanų tyrimai – vienas paleoaplinkos rekonstrukcijų šaltinių. *Geologijos akiračiai*, nr. 4, p. 11–15.

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

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| 2016–2018 | Main implementer in the project “First Indo-Europeans in Lithuania. Corded Ware Culture, 2900-2400 cal BC”. Project leader: Dr. Gytis Piličiauskas. Project financed by the, Research Council of Lithuania,  |
| 2013–2014 | Main implementer in the project „Geological correlation and palaeoenvironmental reconstructions of the Pleistocene of Belarus and Lithuanian cross-border area“(TAP LB 10/2013). Project leader: Dr. Vaida Šeirienė. Project financed by the, Research Council of Lithuania, |

- 2012–2014 Main implementer in the project „Expansion of palaeovegetation in context of the postglacial ecosystem dynamics in the Eastern Baltic region“(LEK-08/2012). Project leader: Dr. Miglė Stančikaitė. Project financed by the, Research Council of Lithuania.
- 2011–2013 Main implementer in the project „*Biotic response to climate change in cold climates (BIOCOLD)*.“ Project leader in Lithuania: Dr. V. Šeirienė. Project financed by the, Nordic Council of Ministers (NorFa).
- 2010–2011 Main implementer in the project „The Effect of Anthropogenic Factors on the Development of Invasive Species in Holocene in the Context of Development of Palaeoecosystem“. Project leader: Dr. Miglė Stančikaitė. Project financed by the, Research Council of Lithuania.

## **INTERNSHIP AND TRAINING**

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- 17–21 June 2012 Internship at University of Tallinn, Estonia. Consultations on plant macrofossil identification, work with collections and atlases.
- 6–20 May 2012 Internship at Department of Plant Ecology, University of Gdańsk, Poland. Mastering a method for analysing wet palaeobotanical material. Familiarity with collections and atlases of plant macrofossil samples. Consultations on plant macroremain identification and interpretation of results.
- 07–18 November 2011 Internship at Department of Environmental Sciences, University of Helsinki, Finland. Supported by the EU COST programme (Action ES0907). The visit covered the preparation, storage and analysis of sediment samples for the plant macrofossils analysis.

## **PARTICIPATION IN SCIENTIFIC CONFERENCES**

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

1. **Grażyna Kluczynska**; Laura Gedminienė; Vladas Žulkus; Algirdas Girininkas; Tomas Rimkus; Linas Daugnora; Jolita Petkuvienė; Žana Skuratovič; Domas Uogintas; Miglė Stančikaitė, 2022. The history of Mid-to-Late Holocene environment dynamics: new multi-proxy study from the Eastern Baltic region, W Lithuania. – International Field Symposium “*Quaternary of the Eastern Baltic Region*”, 10–15 September 2022, Latvia-Lithuania. <https://vb.gamtc.lt/object/elaba:142075640/142075640.pdf>
2. M. Stančikaitė, V. Zernitskaya, V. Šeirienė, D. Kisielienė, B. Vlasov, G. **Kluczynska**, L. Gedminienė, N. Gastevičienė, Ž. Skuratovič, D. Uogintas, 2019. Postglacial palaeoenvironmental investigations in neighbouring countries - common questions and joint solutions. - „*IV международная научно-практическая конференция «Актуальные проблемы наук о Земле: исследования трансграничных регионов»*“, 12–14 September 2019, Брест, Belarus. [https://www.brsu.by/sites/default/files/geo/programma\\_konferentsii\\_2019.pdf](https://www.brsu.by/sites/default/files/geo/programma_konferentsii_2019.pdf)

3. A. Spiridonov, L. Balakauskas, R. Stankevič, **G. Kluczynska**, L. Gedminienė, M. Stančikaitė, 2019. A case of astronomical forcing – evidence from the south east Baltics. - „*20th Congress of the International Union for Quaternary Research (INQUA)*”, 25-31 July 2019, Dublin, Ireland.  
<https://virtual.oxfordabstracts.com/#/event/public/574/submission/2339>
4. V. Žulkus, A. Girininkas, **G. Kluczynska**, V. Šeirienė, J. Mažeika, A. Bitinas, T. Rimkus, A. Damušytė, M. Stančikaitė, 2019. Early Holocene human-environmental interaction along the coast of Yoldia Sea and Ancylus Lake, Lithuania: multidisciplinary approach. - „*20th Congress of the International Union for Quaternary Research (INQUA)*”, 25-31 July 2019, Dublin, Ireland.  
<https://virtual.oxfordabstracts.com/#/event/574/submission/2314>
5. L. Gedminienė, M. Stančikaitė, R. Taraškevičius, **G. Gryguc**, R. Zinkutė, J. Mažeika, **2016**. „Holocene history of environmental dynamics: multi proxy approach from the Čepkeliai highmoor, SE Lithuania. - „*INQUA PERIBALTIC working group meeting*“, 28 August – 02 September 2016, Władysławowo, Poland.  
[https://sisu.ut.ee/sites/default/files/inquaperibaltic/files/conference\\_abstracts\\_inqua\\_peribaltic\\_2016.pdf](https://sisu.ut.ee/sites/default/files/inquaperibaltic/files/conference_abstracts_inqua_peribaltic_2016.pdf)

## **OTHERS**

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Since 11 September 2022 – Secretary of International Union for Quaternary Research (INQUA) Peribaltic Working Group

2019 - Letter of commendation for scientific work „Peculiarities of vegetation changes recorded in lateglacial and Holocene sediments according to palaeobotanical data“. Competition for the best scientific works of young researchers and PhD students held by the Lithuanian Academy of Sciences (LMA).