

# Žana Skuratovič

## CONTACT INFORMATION

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El. paštas: [zana.skuratovic@gamtc.lt](mailto:zana.skuratovic@gamtc.lt)  
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<https://www.linkedin.com/in/%C5%BEana-skuratovi%C4%8D-296570148>

## EDUCATION AND ACADEMIC DEGREE

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2008–2013 PhD in Physical Sciences, Geology (05 P, Geology). Vilnius University, Nature Research Centre.  
Defended thesis: "Unsaturated Zone Models and their Application for Radioactive Waste Repository Safety Analyse".

2005–2007 Master's graduate in Physical Sciences. Vilnius University, the Faculty of Natural Sciences (hydrogeology and engineering geology).

2001–2005 Bachelor's graduate in Physical Sciences. Vilnius University, the Faculty of Natural Sciences (hydrogeology and engineering geology).

## PROFESSIONAL EXPERIENCE

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2014– until now **Researcher**  
Laboratory of Nuclear Geophysics and Radioecology, Nature Research Centre.

2007–2014 **Engineer**  
Radioisotope Research Laboratory, Institute of Geology and Geography.  
(from 2010–Institute of Geology and Geography, Nature Research Centre).

## RESEARCH INTERESTS

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Applications of nuclear geophysics research methods (environmental radioactivity, nuclear geochronology) in archaeology, geology, hydrogeology, performing radioactive and stable isotope determinations. Assessment of the transport of radionuclides in the environment and determination of the dynamics and regularities of parameters in various environmental objects.

## PUBLICATIONS

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

1. Mažeika, J., Jefanova, O., Petrošius, R., Lujanienė, G., **Skuratovič, Ž.** 2022.  $^{14}\text{C}$  and other radionuclides in the environment in the border region of Lithuania before the start of the Belarussian nuclear power plant operation. Radiocarbon, 1–14.  
<https://10.1017/RDC.2022.20>
2. 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. <https://doi.org/10.1016/j.quaint.2021.05.004>
3. Damušytė A., Stančikaitė M., Girininkas A., Rimkus T., Daugnora L., **Skuratovič Ž.**, Uogintas D., Valūnas D., Vaikutienė G., Žulkus Ž., 2021. New insight into the palaeoenvironmental dynamics as a background of the human history in the Nemunas River delta region, W Lithuania, throughout the Lateglacial and Early Holocene. *Baltica*, 34 (2), 216–245. <https://doi.org/10.5200/baltica.2021.2.7>
  4. Jefanova, O., Baužienė, I., Lujanienė, G., Švedienė, J., Raudonienė, V., Bridžiuvienė, D., Paškevičius, A., Levinskaitė, L., Žvirgždąs, J., Petrošius, R., **Skuratovič, Z.**, Mažeika, J., 2020. Initiation of radioecological monitoring of forest soils and plants at the Lithuanian border region before the start of the Belarusian nuclear power plant operation. *Environmental Monitoring and Assessment*, 192, 666. <https://doi.org/10.1007/s10661-020-08638-y>
  5. Jefanova, O., Mažeika, J., Petrošius, R., **Skuratovič, Ž.**, Paškauskas, R., Martma, T., Liblik, T., Ezhova, E., 2020. Baltic Sea water tritium and stable isotopes in 2016–2017. *Isotopes in Environmental and Health Studies*, 56 (2), 193–204. <https://doi.org/10.1080/10256016.2020.1715969>
  6. Edvardsson, J., Baužienė, I., Lamentowicz, M., Šimanauskienė, R., Tamkevičiūtė, M., Taminskas, J., Linkevičienė, R., **Skuratovič, Ž.**, Corona, C., Stoffel, M., 2019. A multi-proxy reconstruction of moisture dynamics in a peatland ecosystem: A case study from Cepkeliai, Lithuania. *Ecological Indicators*, 106: art. no. UNSP 105484. <https://doi.org/10.1016/j.ecolind.2019.105484>
  7. Stančikaitė M., Simniškytė A., **Skuratovič Ž.**, Gedminienė L., Kazakauskas V., Uogintas D., 2018. 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. ISSN 1040-6182, <https://doi.org/10.1016/j.quaint.2018.09.029>
  8. Stančikaitė M., Gedminienė L., Stoffel M., Corona Ch., Gryguc G., Uogintas D., Zinkutė R., **Skuratovič Ž.**, Taraškevičius, R., 2017. Holocene vegetation and hydroclimatic dynamics in SE Lithuania – Implications from a multi-proxy study of the Čepkeliai bog. *Quaternary International*, 501, 219–239, <https://doi.org/10.1016/j.quaint.2017.08.039>
  9. Jefanova O., Mažeika J., Petrošius R., **Skuratovič Ž.**, 2018. The distribution of tritium in aquatic environments, Lithuania, *Journal of Environmental Radioactivity*, Volume 188, 2018, 11–17, ISSN 0265-931X, <https://doi.org/10.1016/j.jenvrad.2017.11.028>.
  10. **Skuratovič Ž.**, Mažeika J., Petrošius R., Martma T., 2016. Investigations of the unsaturated zone at two radioactive waste disposal sites in Lithuania. *Isotopes in Environmental and Health Studies* 52 (4–5), 544–552. <https://doi.org/10.1080/10256016.2015.1092968>
  11. Gryguc G., Kisielienė D., Stančikaitė M., Šeirienė V., **Skuratovič Ž.**, Vaitkevičius V., Gaidamavičius A., 2013. Holocene sediment record from Briauinis palaeolake, Eastern Lithuania: history of sedimentary environment and vegetation dynamics. *Baltica* 26(2): 121–136. <https://doi.org/10.5200/baltica.2013.26.13>
  12. Mažeika, J., Martma, T., Petrošius, R., Jakimavičiūtė-Maselienė, V., **Skuratovič, Ž.**, 2013. Radiocarbon and other environmental isotopes in the groundwater of the sites for a planned new nuclear power plant in Lithuania. *Radiocarbon*. 55 (2/3), 951–962. <https://doi.org/10.2458/azujsrc.55.16318>
  13. Vaitkevičienė, V., Mažeika, J., **Skuratovič, Ž.**, Motiejūnas, S., Vaidotas, A., Oryšaka, A., Ovčnikov, S., 2013. <sup>14</sup>C in radioactive waste for decommissioning of the Ignalina Nuclear Power Plant. *Radiocarbon*. 55 (2/3), 783–790. [https://doi.org/10.2458/azu\\_js\\_rc.55.16322](https://doi.org/10.2458/azu_js_rc.55.16322)
  14. Baužienė, I., Mažeika, J., **Skuratovič, Ž.**, 2013. Fallout Cs-137 and natural K-40 as tracers of topsoil development during slope processes - a case study from the Daugai environs,

- Southern Lithuania. *Geochronometria*. 40 (2), 126–133. <https://doi.org/10.2478/s13386-013-0101-1>
15. Piličiauskas, G., Mažeika, J., Gaidamavičius, A., Vaikutienė, G., Bitinas, A., **Skuratovič, Ž.**, Stančikaitė, M., 2012. New archeological, paleoenvironmental, and C-14 data from the Šventoji Neolithic sites, NW Lithuania. *Radiocarbon*. 54 (3/4), 1017–1031. <https://doi.org/10.1017/S0033822200047640>.
  16. Mažeika J., Guobytė R., Kibirškis G., Petrošius R., **Skuratovič Ž.**, Taminskas J., 2009. The use of carbon-14 and tritium for peat and water dynamics characterization: case of Čepkeliai peatland, southeastern Lithuania. *Geochronometria*, 41–48. <https://doi.org/10.2478/v10003-009-0007-3>

***Scientific articles published in conference proceedings, indexed in „Clarivate Analytics Web of Science“ database:***

1. Vaitkevičienė, V., Mažeika, J. **Skuratovič, Ž.**, 2012. The Improved Technology for the Quantitative Evaluation of Organic and Inorganic Fraction of C-14 from Cementitious Radioactive Ion Exchange Resins. *Proceedings of Scientific Conference on Chemistry and Chemical Technology „Polymer chemistry and technology“*. 1: 17–22.
2. Jakimavičiūtė-Maseliene V., Mažeika J., Petrošius R., **Skuratovič Ž.**, 2011. Hydrogeology model of Ignalina region for Visaginas well field protection zone substantiation. *Environmental engineering: the 8th international conference: selected papers*. 1: 127–133.

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

1. Mažeika, J., Vaitkevičienė, V., **Skuratovič, Ž.**, Petrošius, R., Motiejunas, S., Vaidotas, A., Oryšaka, A. ir Ovčnikov, S. 2012. Anglis-14 panaudotose jonitinėse dervose Ignalinos atominėje elektrinėje. *Visuomenės sveikata*. Priedas 2: 71–74.
2. **Skuratovič Ž.** 2011. Eksperimentiniai tyrimai ir stebėjimai Maišiagalos radioaktyviųjų atliekų saugyklos teritorijoje. *Geologijos akiračiai*. 3/4: 20–25.
3. Mažeika J., Petrošius R., **Skuratovič Ž.** 2009. Key radionuclides in the aquatic environment of Ignalina NPP. *Visuomenės sveikata*. Priedas 1: 78–84.

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

1. Mažeika, J., Petrošius, R., **Skuratovič, Ž.**, 2013. Radioanglies metodas. Metodai Lietuvos archeologijoje: mokslas ir technologijos praeičiai pažinti. Vilnius: Vilniaus universiteto I-kla. P. 411–417.
2. **Skuratovič Ž.**, Jakimavičiūtė-Maseliene V., Mažeika J., 2008. Drėgmės ir tričio pernaša paviršiniame radioaktyviųjų atliekų kapinyne. 11-osios Lietuvos jaunųjų mokslininkų konferencijos „Mokslas – Lietuvos ateitis“, 2008 metų teminės konferencijos APLINKOS APSAUGOS INŽINERIJA, straipsnių rinkinys. Vilnius: Technika. P. 358–366.

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

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- |           |   |
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| 2017–2019 | Engineer. Holocene multi-proxy environmental reconstructions and climate dynamics: spatial and temporal context (Project leader: dr. Miglė Stančikaitė).        |
| 2012–2013 | Engineer. Determination of the Main Palaeoenvironmental Conditions of Quaternary Warm Periods and Cycles of Their Change (Project leader: habil. dr. Valentinas |

Baltrūnas).

2010–2011 Engineer. Holocene multi-proxy environmental reconstructions and climate dynamics: spatial and temporal context (Project leader: dr. Miglė Stančikaitė).

## **INTERNSHIP AND TRAINING**

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- 2009 Regional Training Course. Simulating soil water movement and transport using the biogeochemical transport model HP1, Ghent, Belgium, September 28–October 2, 2009.
- 2008 Regional IAEA training course. Advanced Training Course on the Application of Isotope Techniques, Budapest, Hungary, 20–31 October 2008.
- 2007 Regional IAEA training course. Regional Training Course on Application of Isotope Techniques in Hydrology, Budva, Montenegro 5–14 November 2007.

## **PARTICIPATION IN SCIENTIFIC CONFERENCES**

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### *International scientific conferences:*

Mažeika. J., Jefanova. O, Rimantas, R., Lujanienė G., **Skuratovič, Ž.** 2021. C-14 and other radionuclides in the environment at the Lithuanian border region before the start of the Belarusian nuclear power plant operation. 3rd International Radiocarbon in the Environment Conference 5-9 July 2021, Gliwice, Poland.

Gedminienė, L., Gudaitienė, G., **Skuratovič, Ž.**, Skipitytė, R., Taraškevičius, R., Kazbaris, M., Stančikaitė, M. 2018. Reconstruction of the post-glacial environmental variations based on the multiproxy approach: Dūkštelis Lake, eastern Lithuania. Conference proceedings. 3rd international conference “Paleolimnology of northern Eurasia: experience, methodology, current status and young scientists school in microscopy skills in paleolimnology“. Kazan, Republic of Tatarstan, Russia.

Stančikaitė, M., Simniškytė, A., **Skuratovič, Ž.**, Gedminienė, L., Uogintas, D. 2018. Holocene human-nature interaction in NE Lithuania: an example of the vegetation and land-use history in the surroundings of Petrešiūnai Hillfort. Geophysical Research Abstracts. Vol. 20, EGU2018-19075-1, 2018. EGU General Assembly.

Jefanova O., Mažeika J., Petrošius R., **Skuratovič Ž.** 2017. The distribution of tritium in the aquatic environments, Lithuania. 4th International Conference on Environmental Radioactivity: Radionuclides as Tracers of Environmental Processes 29 May – 2 June 2017 Vilnius, Lithuania.

Jefanova, O., Mazeika, J., Petrosius, R., **Skuratovic, Ž.**, 2017. The distribution of tritium in aquatic environments, Lithuania 7th International Symposium on In Situ Nuclear Metrology as a Tool for Radioecology. Ohrid, Macedonia.

**Skuratovič Ž.**, Mažeika J., Petrošius R., Martma T. 2015 Investigations of the unsaturated zone at two radioactive waste disposal sites in Lithuania International Symposium on Isotope Hydrology: Revisiting Foundations and Exploring Frontiers. 11–15 May 2015. IAEA Headquarters, Vienna, Austria.

Mažeika J., Vaitkevičienė V., **Skuratovič Ž.**, Motiejunas S., Vaidotas A., Oryshaka A., Ovchinikov S. Carbon-14 in radioactive waste for decommissioning of nuclear reactors. 21st International Radiocarbon Conference. 2012, July 9–13, UNESCO, Paris, France.

**Skuratovič Ž.**, Mažeika J., Martma T., Petrošius R., Jakimavičiūtė-Maselienė V. „Radiocarbon and other environmental isotopes in groundwater of sites for planned new nuclear power plant in Lithuania“. 21st International Radiocarbon Conference. 2012, July 9-13, UNESCO, Paris, France.

### *National scientific conferences:*

**Skuratovič Ž.** 2013. Eksperimentiniai tyrimai ir stebėjimai Maišiagalos radioaktyviųjų atliekų saugyklos teritorijoje. Jaunųjų mokslininkų konferencija „Bioateitis: gamtos ir gyvybės mokslų perspektyvos“, 2013 m. gruodžio 11 d., Lietuvos mokslų akademija, Vilnius, Lietuva.

Vaitkevičienė V., Mažeika J., **Skuratovič Ž.** The Improved Technology for the Quantitative Evaluation of Organic and Inorganic Fraction of  $^{14}\text{C}$  from Cementitious Radioactive Ion Exchange Resins. Scientific Conference on Chemistry and Chemical Technology „Polymer chemistry and technology. Kauno technologijos universitetas „Chemija ir cheminė technologija“ 2012 m. Kaunas,.

Jakimavičiūtė-Masalienė V., Mažeika J., Petrošius R., **Skuratovič Ž.** Visagino (Ignalinos rajono). Laukų apsaugos zonos pagrindimo hidrogeologinis modelis. 8-oji tarptautinė konferencija „Aplinkos inžinerija“ 2011 m. gegužės 19–20 d., Vilnius, Lietuva.

Mažeika J., **Skuratovič Ž.** Tritis ir radioanglis Ignalinos AE aplinkoje. Jaunųjų mokslininkų konferencija „Bioateitis: gyvybės ir geomokslų perspektyvos“, 2009 m. gruodžio 15 d., Lietuvos mokslų akademija, Vilnius, Lietuva.

**Skuratovič Ž.**, Plaipaitė R., Jakimavičiūtė-Masalienė V., Mažeika J., Petrošius R. Tritis ir anglis-14 AE aplinkoje: kaita ir dabartinė būklė. Kasmetinė doktorantų ir jaunųjų mokslininkų konferencija „Jaunoji Energetika“, 2008 m. gegužės 29 d., Kaunas, Lietuva.

**Skuratovič Ž.**, Mažeika J., Jakimavičiūtė-Masalienė V. Drėgmės ir tričio pernaša paviršiniame radioaktyviųjų atliekų kapinyne. 11-oji Lietuvos jaunųjų mokslininkų konferencija „Mokslas–Lietuvos ateitis“, 2008 m. balandžio 3 d., Vilnius, Lietuva

## **PARTICIPATION IN THE STUDY PROCESS**

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### *Supervision of bachelor and master students*

Lina Daumantienė	Master thesis topic: „Glaucanite and its influence on the formation of groundwater hydrochemical composition in the active exchange zone in Western Lithuania“ (Vilnius University, Faculty of Chemistry and Geosciences / Hydrogeology and Engineering Geology).	2020–2021
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## **OTHERS**

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Research Council of Lithuania Scholarship 2012 – 2013.

The State Studies Foundation Scholarship 2010 – 2011, 2011 –2012.