

# Laurynas Šiliauskas

## CONTACT INFORMATION

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## EDUCATION AND ACADEMIC DEGREE

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2001 – 2007 Natural Sciences, Geology (N005) PhD study (Vilnius University and Nature Research Centre).  
Dissertation: “Evolution of the proterozoic magmatic complexes in southern Lithuania: implications for the formation of the Varena iron ore deposit”, supervisor – dr. G. Skridlaitė.  
Research objectives: dating of the igneous complexes, evaluation of the metamorphic parameters in the country rocks and its timing, magnetite ore formation condition estimation, regional geology.

1997 – 1999 Vilnius University, Geology / Master degree.  
Master thesis title: “Late-Paleoproterozoic Volcanic-Sedimentary Rock Complexes of the Lithuanian Crystalline Basement in Lazdijai Area ”.  
Faculty of Nature Science, Department of Geology and Mineralogy.  
Research objectives: determination of rock origins, PT estimation using geothermobarometry, estimation of the age of metamorphic events, P-T-t analysis and regional geology analysis.

2009 – 2013 Vilnius University, Geology / Bachelor’s degree.  
Title of the bachelors thesis: “Age determination of Kuršiai and Kurtuvėnai Plutons Using Monazite Geochronometer”.  
Faculty of Nature Science, Department of Geology and Mineralogy.  
Research objectives: application of monazite dating technique, monazite mineralogy and relation to major phases, regional geology.

## PROFESSIONAL EXPERIENCE

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2022 02 – 2023-02 **Postdoc**  
University of Silesia, Poland

2020 04 – till now **Researcher**  
Nature Research Centre, Institute of Geology and Geography

2019 11 – 2020 03 **Senior Technical assistant**  
Nature Research Centre, Institute of Geology and Geography

2015-09– 2019 05 **PhD student**  
Nature Research Centre, Institute of Geology and Geography

2013 06 – 2019 10 **Technical assistant**  
Nature Research Centre, Institute of Geology and Geography

2011 08 – 2011 11 **Geologist**  
GeoBaltic, preparations for seismic profiling

## RESEARCH INTERESTS

Origin and evolution of rocks in the Crystalline Basement of Lithuania, its metamorphism and

timing of metamorphic events, as well as other geological events in Proterozoic. Methods employed are: petrographic analysis (hand specimen and microscopic analysis), thin section analysis using SEM (BSE, EDS, CL, SE), chemical and isotopic composition of the rocks (major, micro and RE elements) and its isotopic composition (Sm-Nd and Rb-Sr systems), mineral chemistry and isotopic composition (zircon, baddeleyite, monazite, titanite, apatite), age determinations (SIMS, LA-ICPMS), mineralization events, evolution of ore mineral assemblages, metamorphic parameter estimations (geothermobarometric calculations and thermodynamic modelling using THERIAKDOMINO software).

## **PUBLICATIONS**

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

1. Collision with Gondwana or with Baltica? Ordovician magmatic arc volcanism in the Marmorosh Massif (Eastern Carpathians, Ukraine) Gawęda, A., Szopa, K., Golonka, J., ...**Siliauskas, L.**, Drakou, F. *International Journal of Earth Sciences*, 2022, 111(7), pp. 2181–2198
2. On the origin and evolution of the 1.86–1.76 Ga Mid-Baltic Belt in the western East European Craton Skridlaite, G., **Siliauskas, L.**, Whitehouse, M.J., Johansson, Å., Rimsa, A. *Precambrian Research*, 2021, 367, 106403
3. Geochemical and sedimentary facies study – Implication for driving mechanisms of organic matter enrichment in the lower Silurian fine-grained mudstones in the Baltic Basin (W Lithuania) Cichon-Pupienis, A., Littke, R., Lazauskienė, J., ...Radzevičius, S., **Šiliauskas, L.** *International Journal of Coal Geology*, 2021, 244, 103815
4. Features of iron accumulation at high concentration in pulcherrimin-producing *Metschnikowia* yeast biomass Mažeika, K., **Šiliauskas, L.**, Skridlaitė, G., ...Paškevičius, A., Melvydas, V. *Journal of Biological Inorganic Chemistry*, 2021, 26(2-3), pp. 299–311
5. The lateglacial-early holocene dynamics of the sedimentation environment based on the multi-proxy abiotic study of lieporiai palaeolake, northern Lithuania Gedminienė, L., **Šiliauskas, L.**, Skuratovič, Ž., Taraškevičius, R., Zinkutė, R., Kazbaris, M., Ežerinskis, Ž., Šapolaitė, J., Gastevičienė, N., Šeirienė, V., Stančikaitė, M. *Baltic*, 2019, 32(1), pp. 91–106
6. Petrography and mineral chemistry of the varena iron ore deposit, southeastern Lithuania: Implications for the evolution of carbonate and silicate rocks and ore mineralization Skridlaitė, G., **Šiliauskas, L.**, Prušinskienė, S., Bagiński, B. *Baltic*, 2019, 32(1), pp. 107–126
7. What the ca. 1.83 Ga gedrite-cordierite schists in the crystalline basement of Lithuania tell us about the late Palaeoproterozoic accretion of the East European Craton **Siliauskas, L.**, Skridlaite, G., Baginski, B., Whitehouse, M., Prusinskiene, S. *GFF*, 2018, 140(4), pp. 332–344

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

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

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

*Reviewed scientific articles, published in Lithuania:*

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

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- 2017-04            **Project manager** SYNTHESYS project, covering short visit to NORDSIM facilities in Stockholm, Sweden. .
- 2022-02 –        Researcher in project Four, three or two? The Neoproterozoic glacial countdown to  
2023-02            the biological ‘big bang’, University of Silesia, Poland..

**INTERNSHIP AND TRAINING**

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- 2019 m. 08 / 09    „Petrochronology: methods and Application“ short courses, EGU2017 Viena, Austria
- 2019 m. 07        SYNTHESYS project visit to NORDSIM facilities, zircon dating. Stockholm, Sweden.

**PARTICIPATION IN SCIENTIFIC CONFERENCES**

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*International scientific conferences:*

1. Skridlaite, G., **Siliauskas, L.**, Soderlund, U., Naeraa, T., 2022. Fluid-driven reactions in Ca-Mg-skarns from SW East European Craton (Lithuania): microstructural study and dating of ore-forming events. Goldschmidt2022 abstract. <https://doi.org/10.46427/gold2022.11987>
2. Skridlaite, G., **Siliauskas, L.**, Whitehouse, M., Johansson, Å., and Rimša, A.: Evidence for a ca 1.86 Ga continental margin in the Baltic Sea region: rock chemistry, U-Pb ages, and Nd and Sr isotopic data , EGU General Assembly 2022, Vienna, Austria, 23–27 May 2022, EGU22-2524, 2022.
3. Skridlaite, G., Soderlund, U., **Siliauskas, L.**, Naeraa, T., 2020. Baddeleyite, Zircon and Monazite Minerals in the Metasomatites of the Varena Iron Ore Deposit in the Western East European Craton: Application for Dating Skarn and Ore Formation Processes. Goldschmidt2020 abstract. <https://doi.org/10.46427/gold2020.2405>
4. Skridlaite, G., **Siliauskas, L.**, Prusinskiene, S., Baginski, B., 2019. (2019) Textural Relationships and Mineral Chemistry at the Varena Iron Ore Deposit, S Lithuania: Rock-Fluid Interactions during the Metamorphism and Metasomatism of Calcareous and Silicic Rocks. Goldschmidt2019 abstract.
5. Pupienis, A.C., Littke, R., Lazauskienė, J., Baniasad, A., **Šiliauskas, L.**, Pupienis, D., Radzevičius, S., 2021. Environmental Mechanisms Governing Formation of the Lower Silurian Organic Matter-Rich Mudstones in Baltic Basin (Lithuania). [30th International Meeting on Organic Geochemistry \(IMOG 2021\)](https://doi.org/10.3997/2214-4609.202134170), Sep 2021, Volume 2021, p.1 – 2. <https://doi.org/10.3997/2214-4609.202134170>
6. **Siliauskas, L.**, Skridlaite, G., Whitehouse, M., Soesoo, A., 2018. A ca. 1.89 Ga magmatic complex in eastern Lithuania: a link connecting with the domains in Estonia and the Bergslagen terrane in Sweden. Geophysical Research Abstracts Vol. 20, EGU2018-3050, 2018 EGU General Assembly, Viena, Austria.
7. **Siliauskas, L.**, Skridlaite, G., Whitehouse, M. and Soesoo, A., 2018. A ca.1.89 Ga magmatic complex in eastern Lithuania: a link connecting with the domains in Estonia and the Bergslagen terrane in Sweden. 33rd Nordic Geological Winter Meeting (NGWM),

Copenhagen, Denmark, January 10-12, 59 p. <https://2dggf.dk/foreningen/33rd-nordic-geological-winter-meeting/ngwm-2018-abstracts/1-igneous-rocks-and-processes/>

## **PARTICIPATION IN THE STUDY PROCESS**

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### **OTHERS**

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1. 2018 Geriausio pristatymo Jaunųjų mokslininkų konferencijoje „BIOATEITIS: gamtos ir gyvybės mokslų perspektyvos“ apdovanojimas, Lietuvos Mokslų Akademija: **Šiliauskas, L.**, Skridlaitė, G., Whitehouse, M., Putnaitė, J., 2018. Vidurio Lietuvos tektoninės zonos tęsinys ŠV Lietuvos kristaliniame pamate. 11-oji jaunųjų mokslininkų konferencija „Bioateitis: gamtos ir gyvybės mokslų perspektyvos“, Lietuvos mokslo akademija, Vilnius, Lietuva, 2018-12-14,p3
2. **Šiliauskas L.** Proterozojaus magminių ir metamorfinių įvykių Pietų Lietuvoje sąsaja su Varėnos geležies rūdos telkiniu // Geologijos akiračiai. ISSN 1392-0006. 2021, nr. 1–2, p. 36–46
3. **Šiliauskas, L.**, 2021. Kaip mokslininkai įsivaizdavo Žemę prieš atsirandant izotopiniams datavimams? Mokslo sriuba: <http://mokslosriuba.lt/kartumesgalime/kaip-mokslininkai-isiivaizdavo-zeme-pries-atsirandant-izotopiniams-datavimams/>
4. **Šiliauskas, L.**, 2022. Izotopinio U-Pb metodo raida arba kaip buvo nustatytas Žemės amžius. Mokslo sriuba: <http://mokslosriuba.lt/kartumesgalime/izotopinio-u-pb-metodo-raida-arba-kaip-buvo-nustatytas-zemes-amzius/>