

# Irina Sosnina

## CONTACT INFORMATION

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<https://www.researchgate.net/profile/Irina-Sosnina>

## EDUCATION AND ACADEMIC DEGREE

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2021 – present Nature Research Centre (Gamtos tyrimų centras), Geology / Ph.D.  
Ph.D. thesis: “Reconstruction of the postglacial environmental changes in the south-eastern Baltic based on micropaleontological studies”, supervisor – dr. V. Šeirienė  
Host institute: Institute of Geology and Geography, Quaternary Research Laboratory  
Field of research: Quaternary geology, micropaleontology, Baltic Sea coast paleogeography

2021 – 2019 Immanuel Kant Baltic Federal University, Geography (Coastal oceanography) / Master.  
Master thesis: “Reconstruction the development of natural conditions for wetland ecosystems in the Curonian Spit area using palaeogeographical methods”.  
Host institute: Shirshov Institute of Oceanology, Russian Academy of Sciences, Atlantic Geology laboratory  
Field of research: paleogeography, coastal lagoons sedimentology, micropaleontology

2019 – 2015 Immanuel Kant Baltic Federal University, Geoecology / Bachelor.  
Bachelor topic: “Ecological and geographical assessment of the historic greened zone of fortifications in Kaliningrad city (by the example of Litovskiy Val street)”.  
Host institute: Immanuel Kant Baltic Federal University, Institute of Geography, Nature Management and Territorial Development  
Field of research: urban sustainability, ecosystem services, green infrastructure, quality of life.

## PROFESSIONAL EXPERIENCE

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2022 10 – unitl now **Engineer**  
(Nature Research Centre)

2020 07 – 2022 09 **Research engineer**  
(Shirshov Institute of Oceanology, Russian Academy of Sciences, Atlantic branch)

2019 10 – 2020 06 **Laboratory assistant**  
(Shirshov Institute of Oceanology, Russian Academy of Sciences, Atlantic branch)

## RESEARCH INTERESTS

Field of research: My current research interests encompass the Baltic sea coast evolution and interactions between the sea level fluctuations, local climate change, and microorganisms responding to it on multiple temporal and spatial scales. I use interdisciplinary field- and laboratory-based approaches including the analysis of sediment cores, processing and interpretation of radiocarbon dating data; and implementation of high-resolution micropaleontological and geochemical analyses. Geography of my current project span the southeastern Baltic Sea coast.

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## PUBLICATIONS

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

1.

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

1.

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

1.

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

1. Napreenko M.G., Orlov A.V., Napreenko-Dorokhova T.V., Subetto D.A., **Sosnina I.A.** Preliminary data on formation and depositional environments of lake Chaika in the central part of the Curonian Spit (Kaliningrad Region, Russia, South-Eastern Baltic) // IOP Conference Series: Earth and Environmental Science. 2020. Vol. 438. doi: 10.1088/1755-1315/438/1/012019 URL: <https://iopscience.iop.org/article/10.1088/1755-1315/438/1/012019>
2. **Sosnina I.A.**, Napreenko-Dorokhova T.V., Napreenko M.G., Kasperovičienė J., Karosienė J. Species composition of diatoms (Bacillariophyta) of Holocene deposits in the Curonian Lagoon // Vestnik Immanuel Kant Baltic Federal University. Ser: Natural and medical sciences. – 2021. – No. 1. – 115 p. ISSN 2500-3208 URL: <https://www.elibrary.ru/item.asp?id=46139975>

*Reviewed scientific articles, published in Lithuania:*

1.

## PARTICIPATION IN INTERNATIONAL AND NATIONAL SCIENTIFIC PROGRAMMES AND PROJECTS

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- 2020 – 2021 **Member of the working group** in a project supported by Immanuel Kant Baltic Federal University (IKBFU) "Reconstructing the formation environments of coastal ecosystems in the Curonian Spit"
- 2019 – 2021 **Member of the working group** in a project of Russian Scientific Foundation (RSF) "Reconstructing the development of natural conditions of geologically unstable natural formations of the Baltic coast during the Holocene (on the example of the UNESCO World Heritage Site - Curonian Spit)". Project: №18-77-00030 <https://www.rscf.ru/en/project/18-77-00030/>
- 2019-2020 **Member of the working group** in a project of Russian Scientific Foundation (RSF) "Correlation of key climatic events of the Holocene in the north Atlantic Ocean and Baltic Sea". Project: №18-77-10016 <https://www.rscf.ru/en/project/18-77-10016/>

## **INTERNSHIP AND TRAINING**

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- 2022 m. 11 Data Analysis with R: TMS Annual Conference 2022 workshop (Marum Research Faculty University of Bremen, Bremen, Germany)
- 2022 m. 09 INTIMATE-INQUA Summer School at the Archipelago Sea (University of Turku, Turku, Finland)
- 2021 m. 04 Internship "Taxonomic diversity of diatoms. Use and application of diatom analysis for palaeoecological reconstructions in the southeast Baltic" (Shirshov Oceanology Institute Russian Academy of Science, Moscow)

## **PARTICIPATION IN SCIENTIFIC CONFERENCES**

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### *International scientific conferences:*

1. **I. Sosnina**, V. Šeirienė, T. Napreenko-Dorokhova, and M. Napreenko. Palaeoenvironmental changes of the Curonian Lagoon (SE Baltic Sea) inferred from the diatom data // The Micropalaeontological Society Annual Conference 2022: The Microfossil Record of Ecosystem Response to Global Change; 9–11 November 2022, Bremen, Germany. Newsletter of Micropalaeontology, Special Issue 2. The Micropalaeontological Society. (Bremen: Universität Bremen). P. 114-115. <https://www.tmsoc.org/download/conference-abstracts-2022/>
2. **I. Sosnina**, T. Napreenko-Dorokhova, M. Napreenko. The palaeoenvironmental study of the southwestern part of Curonian Lagoon inferred from diatom data. // Quaternary of the Eastern Baltic Region. Excursion guided and abstracts of international field symposium, 10-15 September 2022, Vilnius, Lithuania/ Eds: V. Šeirienė and A. Bitinas. Nature Research Centre, Vilnius, 2022 ISBN 9786098255102. p. 38-39
3. Napreenko-Dorokhova T.V., Napreenko M.G., **Sosnina I.A.**, Druzhinina O., Sapozhnikov P.V. Preliminary results of complex study of sediments from the Curonian Lagoon // Geography: development of science and education. Collection of articles based on the materials of the international scientific and practical conference LXXIV Herzan readings / Editors: S.I. Bogdanov, D.A. Subetto, A.N. Paranina. – Saint Petersburg: Izdatel'stvo A.I. Herzen State University, 2021. – V. 1, P. 353-356.
4. Napreenko-Dorokhova T.V., Napreenko M.G., **Sosnina I.A.**, Subetto D.A., Orlov A.V., Lukashov N.A. The role of natural and anthropogenic factors in the formation of landscapes of the Curonian Spit in the Holocene // Materials of the international scientific-practical conference "Landscape science and landscape ecology: co-adaptation of landscape and economic activity. The fourth landscape-ecological readings dedicated to G.E. Grishankov". –Simferopol: V.I. Vernadsky Crimean Federal University, 2020. – P. 279-283 URL: <https://www.elibrary.ru/item.asp?id=45652695&pff=1>

*National scientific conferences:*

1. **I. Sosnina**, T. Napreenko-Dorokhova, M. Napreenko. Preliminary data on the development of a coastal basin in the Nemunas river delta. // The Seventh Conference of the Students in the Field of Geology, December 2021, Vilnius, Lithuania. [http://www.geol.gf.vu.lt/failai/Doktorantu\\_metine\\_konferencija/Sosnina\\_EN.pdf](http://www.geol.gf.vu.lt/failai/Doktorantu_metine_konferencija/Sosnina_EN.pdf)
2. **Sosnina I.A.**, Napreenko-Dorokhova T.V., Napreenko M.G., Sapozhnikov P.V. Development of natural conditions in the root of the Curonian Spit according to diatom analysis // Integrated research of the World Ocean. The materials of VI All-Russian conference of young scientists, Moscow city, 18–24 April 2021. Moscow: P.P. Shirshov Institute of Oceanology Russian Academy of Science, 2021, P. 404–405, DOI:10.29006/978-5-6045110-3-9. ISBN 978-5-6045110-3-9. URL: <https://doi.ocean.ru/pdf/kimo2021.pdf>
3. Napreenko-Dorokhova T.V., Napreenko M.G., **Sosnina I.A.**, Subetto D.A., Orlov A.V., Lukashev N.A. Results of a study of bottom sediments of the wetland ecosystems of the Curonian Spit // Problems of Study and Protection of Natural and Cultural Heritage of the Curonian Spit National Park: Collection of Scientific Articles. – Kaliningrad, 2020. – V. 16. –P. 150-160. ISSN 2410-8677
4. **Sosnina I.A.**, Ananian A.S., Napreenko-Dorokhova T.V., Napreenko M.G., Koroleva Y.V., Orlov A.V., Subetto D.A. The history of landscape development in the central part of the Curonian Spit during the Holocene according to the research of bottom sediments of Lake Chaika // The materials of V All-Russian conference of young scientists "Integrated research of the World Ocean" – Kaliningrad: Atlantic Branch P.P. Shirshov Institute of Oceanology Russian Academy of Science, 2020. – P. 350-351. – ISBN 978-5-9906839-1-4. URL: <https://www.elibrary.ru/item.asp?id=43087318&pff=1>