

# Darya Sukhorebska

## *Curriculum Vitae*

### **Personal information:**

Birth September 1<sup>st</sup>, 1996, Kharkiv Ukraine  
Languages Ukrainian (native), Russian (native),  
English (advanced),  
German (basic),  
French (basic)  
Email [suhdaria0109@gmail.com](mailto:suhdaria0109@gmail.com)  
Web-cite <https://dsukhorebska.github.io/sdarya/index.html>

### **Research stay:**

Apr. 2022 - Research visitor  
March 2024 [Universität Münster](#)

### **Working experience:**

August 2023 - now Junior research fellow in Department of Differential Equations and  
Geometry,  
[B. Verkin Institute for Low Temperature Physics and Engineering of  
the National Academy of Sciences of Ukraine](#)

### **Education:**

2019-2023 **PhD in Mathematics**  
B. Verkin Institute for Low Temperature Physics and Engineering of the  
National Academy of Sciences of Ukraine  
2017-2019 **Master degree in Mathematics** (with honors),  
V.N. Karazin Kharkiv National University  
2013-2017 **Bachelor degree in Applied mathematics** (with honors),  
V.N. Karazin Kharkiv National University  
2002-2013 **High School Graduate** (with honors),  
M. V. Lomonosov gymnasium №46, Kharkiv, Ukraine

### **PhD thesis:**

Title: **Simple closed geodesics on regular tetrahedra in spaces of constant  
curvature**  
Scientific advisor: Full Member of the National Academy of Sciences of Ukraine,  
Chief research fellow in B. Verkin ILTPE of NASU,  
Prof. Dr. [Alexander A. Borisenko](#)

### Academical Awards and Scholarships:

- 2022-2024 Math for Ukraine Scholarship  
2019-2023 [IMU Breakout Graduate Fellowship](#)  
2018, 2021 [Grant of N.I. Akhiezer](#)

### Publication:

- 2022 *Simple closed geodesics on regular tetrahedra in spaces of constant curvature*, J. Math. Phys. Anal. Geom., 4 (2022), p. 562-610.  
<https://doi.org/10.15407/mag18.04.562>
- 2022 *Multidimensional Submanifolds with Metric of Revolution in Hyperbolic Space*, J. Math. Phys. Anal. Geom., **18** (2022), 269-285.  
<https://doi.org/10.15407/mag18.02.269>
- 2021 (with Borisenko A.A.) *Simple closed geodesics on regular tetrahedra in spherical space*, Sb. Math., 212:8 (2021), 1040–1067.  
<https://doi.org/10.1070/SM9433>
- 2020 (with Borisenko A.A.) *Simple closed geodesics on regular tetrahedra in Lobachevsky space*, Sb. Math., 211:5 (2020), 617-42.  
<http://dx.doi.org/10.1070/SM9212>

### Research Talks:

- Dec. 2023 Seminar of Copenhagen Centre for Geometry and Topology, Denmark
- March 2023 Geometry Day 2023 in Leipzig, Germany
- March 2023 Topology/Geometry Zoom Seminar, *online*
- Dec. 2022 Oberseminar of Geometry group in Karlsruhe Institute for Technology, Germany
- April 2022 Oberseminar of Differential geometry group at Mathematical Institute in WWU Münster, Germany
- June 2021 8th European Congress of Mathematics (8ECM), Portoroz, Slovenia, *online*  
<https://8ecm.si/system/admin/abstracts/pdfs/000/000/382/original/darya-sukhorebska.pdf?1589795038>
- May 2020 International scientific conference “Algebraic and geometric methods of analysis”, Odesa, Ukraine, *online*
- Feb. 2020 Kharkiv State Geometric Seminar, Kharkiv, Ukraine
- July 2019 Lake Como School of Advanced Studies “Geometric Analysis on Riemannian and Singular Metric Measure Spaces”, Como, Italy

- April 2019 Seminar of the topology laboratory of the Institute of Mathematics of National Academy of Sciences of Ukraine, Kyiv, Ukraine
- June 2018 VI International Conference “Analysis and Mathematical Physics”  
Kharkiv, 2018

**Selected Conferences, Workshops and Summer Schools:**

- August 2023 Workshop on Curvature and Global Shape, Münster, Germany
- November 2022 Banach Center – Oberwolfach Graduate Seminar: Geometry and Topology of Compact Homogeneous Spaces, Będlewo, Poland
- June 2022 Oberwolfach Workshop, Geometry. Germany.
- August 2021 Workshop on Curvature and Global Shape, Münster, Germany.
- April 2021 Workshop “The Young Geometers Meeting on Geometric Analysis and Differential Geometry”, Copenhagen, Denmark, (presented a poster)
- July 2019 Lake Como School of Advanced Studies “Geometric Analysis on Riemannian and Singular Metric Measure Spaces”, Como, Italy
- June 2019 International Conference “Geometry, Differential Equations and Analysis” in memory of A.V. Pogorelov, Kharkiv, Ukraine (**co-organizer**)
- September 2018 Summer School “Generalized Curvatures and Related Topics”, EPFL, Lausanne Switzerland