DARYA SUKHOREBSKA

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WORKING EXPERIENCE

Postdoctoral Researcher   2024 - Present
Institut für Algebra und Geometrie, Karlsruher Institut für Technologie (KIT)   Karlsruhe, Germany

Junior research fellow   2023 - Present
B. Verkin Institute for Low Temperature Physics and Engineering (B. Verkin ILTPE of NASU)   remote

Postdoctoral Researcher   2023 - 2024
Universität Münster   Münster, Germany

Research Stay   2022 - 2023
Universität Münster   Münster, Germany

Researcher   2018-2019
B. Verkin ILTPE of NASU   Kharkiv, Ukraine

EDUCATION

PhD in Mathematics   2019 - 2023
B. Verkin ILTPE of NASU   Kharkiv, Ukraine

Thesis title: *Simple closed geodesics on regular tetrahedra in spaces of constant curvature.*
Supervisor: Prof. Dr. Alexander Borisenko.

Master degree in Mathematics   2017-2019
V.N. Karazin Kharkiv National University (with honors)   Kharkiv, Ukraine

Bachelor degree in Applied Mathematics   2013-2017
V.N. Karazin Kharkiv National University (with honors)   Kharkiv, Ukraine

GRANTS AND SCHOLARSHIPS

Math for Ukraine Scholarship   2022-2023

IMU Breakout Graduate Fellowship   2019-2023

Grant of N. I. Akhiezer Foundation   2018, 2021

SELECTED PUBLICATIONS

2024 (with B. Wilking) Topology of positively curved manifolds with symmetry in low dimensions. *(in preparation)*

2024 Simple closed geodesics on regular spherical polyhedra, *arXiv*, 2024.
       `http://arxiv.org/abs/2408.10782`

2022 Simple closed geodesics on regular tetrahedra in spaces of constant curvature, *JMPAG*, 4, 562-610.
       `https://doi.org/10.15407/mag18.04.562`

2022 Multidimensional Submanifolds with metric of revolution in hyperbolic space, *JMPAG* 18, 269-285.
       `https://doi.org/10.15407/mag18.02.269`

2021 (with A. Borisenko) Simple closed geodesics on regular tetrahedra in spherical space, *Sb. Mathematic*, 212,
       1040-1067. `https://doi.org/10.1070/SM9433`

2020 (with A. Borisenko) Simple closed geodesics on regular tetrahedra in Lobachevsky space, *Sb. Mathematic*, 211,
       617-642. `http://dx.doi.org/10.1070/SM9212`

RESEARCH TALKS:

April 2024	Oberseminar of Geometry group in Karlsruhe Institute for Technology, Germany
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*
Feb. 2023	Seminar of Mathematical Division, B. Verkin ILTPE of NASU, Kharkiv, Ukraine *online*
April 2022	Oberseminar of Differential geometry group at Mathematical Institute in Universität Münster, Germany
June 2021	8th European Congress of Mathematics (8ECM), Portoroz, Slovenia, *online*
April 2021	Workshop "The Young Geometers Meeting on Geometric Analysis and Differential Geometry", Copenhagen, Denmark, *(presented a poster)*.
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
June 2019	International Conference "Geometry, Differential Equations and Analysis" in memory of A.V. Pogorelov, Kharkiv, Ukraine
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:

June 2024	Oberwolfach Workshop, Geometry, Germany.
Oct. 2023	Geometry beyond Riemann: Curvature and Rigidity, ESI, Vienna, Austria.
August 2023	Workshop on Curvature and Global Shape, Münster, Germany.
Nov. 2022	Banach Center – Oberwolfach Graduate Seminar: Geometry and Topology of Compact Homogeneous Spaces, Bedlewo, Poland.
June 2022	Oberwolfach Workshop, Geometry, Germany.
August 2021	Workshop on Curvature and Global Shape, Münster, Germany.
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)**
Sep. 2018	Summer School "Generalized Curvatures and Related Topics", EPFL, Lausanne Switzerland.

LANGUAGES

Ukrainian	native
English	fluent, C1
German	A2
French	A2