

Milica Dukic

E-MAIL: milica.dukic@math.uu.se
CITIZENSHIP: Croatia, Bosnia

ADDRESS: Milica Dukic, Matematiska institutionen
Lägerhyddsvägen 1
Box 480
752 37 Uppsala
Sweden

RESEARCH INTERESTS

I am interested in symplectic and contact topology, particularly applications of pseudoholomorphic curve techniques. My recent work involves studying wrapped Fukaya category and open Gromov-Witten invariants of Lagrangians with Legendrian boundary, in particular, a relation to SFT-type invariant of the contact boundary that allows interesting computations and its role in mirror symmetry.

EDUCATION

since 2021 **Ph.D. in Mathematics, Uppsala University**
ADVISOR: Tobias Ekholm, CO-ADVISOR: Georgios Dimitroglou Rizell

08/2021 **M.Sc. in Mathematics, Humboldt University of Berlin**
Berlin Mathematical School
THESIS: *Gluing Theorems in Symplectic Field Theory*
ADVISOR: Chris Wendl, CO-ADVISOR: Klaus Mohnke

08/2019 **B.Sc. in Mathematics, University of Belgrade**
Valedictorian, GPA: 10.0/10.0

PAPERS IN PREPARATION

Augmentation variety and the Gromov-Witten disk potential, *in preparation*

HONORS AND AWARDS

Berlin Mathematical School scholarship for master's studies	09/2019–08/2021
Student of the Year Award, University of Belgrade, Faculty of Mathematics	09/2020
Dr. Milan Jelić Foundation award for master's studies	12/2019
Student Excellence Award of the University of Belgrade	2017, 2018, 2019
Calouste Gulbenkian Foundation science grant	07/2018
Dr. Milan Jelić Foundation scholarship for undergraduate studies	2016–2019
Silver medal at the International Mathematical Olympiad	07/2014

TEACHING EXPERIENCE

since 2021	Uppsala University	
	<i>Multivariable Calculus</i>	Spring 2023
	<i>Linear Algebra II</i>	Spring 2023
	<i>Probability and Statistics</i>	Fall 2022
	<i>Probability and Statistics</i>	Spring 2022
	<i>Linear Algebra II</i>	Fall 2021
2018–2019	University of Belgrade	
	<i>Real Analysis I</i>	Fall 2018–Spring 2019

SEMINAR TALKS

<i>Augmentation category of a Legendrian link,</i> Geometry and Topology Student Seminar, Uppsala University	09/2022
<i>Quantum cohomology and counting rational curves,</i> Algebra Seminar, Uppsala University	05/2022
<i>Overtwisted contact structures in dimension 3 and higher,</i> Geometry and Topology Student Seminar, Uppsala University	12/2021
<i>Leaf-wise coisotropic intersections and Rabinowitz Floer homology,</i> Berlin Mathematical School Student Conference, Berlin	03/2021
<i>Taubes' gluing theorem,</i> Gauge Theory Seminar, Humboldt University of Berlin	01/2021
<i>Ring structure on Floer homology and PSS isomorphism,</i> Floer Homology Seminar, Humboldt University of Berlin	12/2019
<i>Cauchy-Riemann type operators on punctured domains,</i> Symplectic Geometry Seminar, Humboldt University of Berlin	12/2019

CONFERENCES ATTENDED

Convexity in Contact and Symplectic Topology, Institute Henri Poincaré	4–8 July 2022
Frontiers of Quantitative Symplectic and Contact Geometry, Institute Mittag-Leffler	27 June–1 July 2022
Uppsala-Nantes Workshop on Lagrangian cobordisms and Floer theory, Uppsala	8–10 October 2021
Gauge Theory in Geometry and Topology Summer Graduate School, MSRI	5–16 July 2021
Symplectic Topology, Contact Topology and Interactions, Institute Henri Poincaré	26–30 April 2021
From Hamiltonian Systems to Symplectic Topology and Beyond, CIRM Marseille	19–23 April 2021
Floer Theory and Hamiltonian Dynamics of Non-Compact Hypersurfaces, ETH Zürich	18–22 January 2021
Contact and Symplectic Topology, University of Antwerp	11–13 February 2020
Contact and Symplectic Topology, Humboldt University of Berlin	7–9 March 2019

SERVICE

Member of the Problem Selection Committee for the 26 th Junior Balkan Mathematical Olympiad	June 2022
Deputy Leader of the team of Bosnia in the 35 th Balkan Mathematical Olympiad	May 2018
Visiting Lecturer at the School of Mathematics, Mathematical Society of Sarajevo Canton, teaching highly gifted high school students	2017–2018

LANGUAGES

ENGLISH	fluent
SERBIAN	native
GERMAN	intermediate