

Marija Jelić Milutinović, PhD ^{Curriculum Vitae}

PERSONAL DATA

E-mail:	<u>marija.jelic@matf.bg.ac.rs</u>
Web page:	http://www.matf.bg.ac.rs/p/-marija-jelic
Address:	Studentski trg 16, 11000 Belgrade, Serbia

EDUCATION_____

2021	PhD in Mathematics
	Department of Topology, Faculty of Mathematics, University of Belgrade
	Thesis: Combinatorial topology and graph complexes
	Advisor: Prof. dr Siniša Vrećica, GPA: 10,00 (out of 10,00)
	Award for thesis: Annual Award of the Mathematical Institute of the Serbian Academy of Sciences and
	Arts in the field of mathematics and mechanics for PhD Students in 2021.
2013	MSc in Mathematics
	Department of Topology, Faculty of Mathematics, University of Belgrade
	Thesis: Equivariant index theory
	Advisor: Prof. dr Siniša Vrećica, GPA: 10,00 (out of 10,00)
2012	BA in Mathematics
	Faculty of Mathematics, University of Belgrade
	GPA: 10,00 (out of 10,00)
	Award: "The best student of generation at the University of Belgrade"
	Award: "The best student of generation at the Faculty of Mathematics"
2004-2008	Mathematical Grammar School, Belgrade
	("Matematička gimnazija"- school with the High National Distinction Status)
	Graduated as "The best student of generation "

APPOINTMENTS

2021-present	Assistant Professor, Faculty of Mathematics, University of Belgrade
	Courses held: Topology A, Topology B, Convex Analysis, Obvious topology, Mathematics 1
2015-2021	Teaching Assistant, Faculty of Mathematics, University of Belgrade
	Courses held: Topology A, Topology B, Algebraic topology, Mathematical Analysis 1A, 1B, 1, and 3;
	Obvious topology, Master courses in Topology
2016 Fall	Research Fellow at the Institute for Computational and Experimental Research in Mathematics,
	ICERM - Brown University, Providence, United States of America
2012-2015	Teaching Associate, Faculty of Mathematics, University of Belgrade
	Courses held: Topology A, Topology B, Algebraic topology, Mathematical Analysis 1A and 1B,
	Obvious topology
2012-2014	Teaching special mentoring program class of gifted students, Mathematical Grammar School, Belgrade

RESEARCH INTEREST_____

Topological and Geometric Combinatorics, Algebraic Topology, Applied topology

PUBLICATIONS and ACCEPTED PAPERS

[1]	"Topology of cut complexes of graphs"
	Accepted for publication in SIAM Journal on Discrete Mathematics, available at arXiv:2304.13675.
	Authors: M. Bayer, M. Denker, M. Jelić Milutinović, R. Rowlands, S. Sundaram, and L. Xue.
[2]	"Total Cut Complexes of Graphs"
	Accepted for publication in Discrete & Computational Geometry, available at arXiv: 2209.13503.
	Authors: M. Bayer, M. Denker, M. Jelić Milutinović, R. Rowlands, S. Sundaram, and L. Xue.
[3]	"Perfect Matching Complexes of Honeycomb Graphs"
	Electronic Journal of Combinatorics, 30(2) P2.45 (2023)
	Authors: M. Bayer, M. Jelić Milutinović, and J. Vega.
[4]	"General polygonal line tilings and their matching complexes"
	Discrete Mathematics, vol. 346, Issue 7 (2023), 113428
	Authors: M. Bayer, M. Jelić Milutinović, and J. Vega.
[5]	"Matching complexes of trees and applications of the matching tree algorithm"
	Annals of Combinatorics 26 (2022), 1041–1075
	Authors: M. Jelić Milutinović, H. Jenne, A. McDonough, and J. Vega.
[6]	"Bounding the tripartite-circle crossing number of complete tripartite graphs"
	Journal of Graph Theory (2021), 1–23, https://doi.org/10.1002/jgt.22763.
	Authors: C. Camacho, S. Fernández-Merchant, M. Jelić Milutinović, R. Kirsch, L. Kleist, E. Bailey Matson, J. White
[7]	"Manifold Matching Complexes"
	Mathematika 66(2020), 973–1002
	Authors: M. Bayer, B. Goeckner, and M. Jelić Milutinović.
[8]	"Combinatorics of unavoidable complexes"
	European Journal of Combinatorics 83(2020), 103004
	Authors: M. Jelić Milutinović, D. Jojić, M. Timotijević, S. T. Vrećica, and R. T. Živaljević.
[9]	"Bounding the tripartite-circle crossing number of complete tripartite graphs"- EUROCOMB 2019 publication
	Acta Mathematica Universitatis Comenianae 88(3)(2019), 515-520.
	Authors: C. Camacho, S. Fernández-Merchant, M. Jelić Milutinović, R. Kirsch, L. Kleist, E. Bailey Matson, J. White
[10]	"Cyclohedron and Kantorovich-Rubinstein polytopes"
	Arnold Mathematical Journal, 4(1)(2018), 87-112
	Authors: F.D. Jevtić, M. Jelić, and R. T. Živaljević.
[11]	"On Knaster's problem"
	Marija Jelić, Publications de l'Institut Mathématique, 99(113)(2016), 43-49.
[12]	"Methods of Equivariant Topology in Two Nice Discrete Geometry Problems"
	Marija Jelić, The Graduate Journal of Mathematics, 1(1) (2016), 18–27.

PREPRINTS_____

[13] *"The Tripartite-Circle Crossing Number of K_2,2,n", arXiv:2108.01032.* Authors: C. Camacho, S. Fernández-Merchant, M. Jelić Milutinović, R. Kirsch, L. Kleist, E. Bailey Matson, J. White.

INTERNATIONAL MATHEMATICAL COMPETITIONS

- 2011 Second prize 18th International Mathematics Competition for University Students IMC
- 2010 Second prize 17th International Mathematics Competition for University Students IMC
- 2009 Second prize 16th International Mathematics Competition for University Students IMC
- 2008 Silver medal 49th International Mathematical Olympiad, Spain
- 2008 Silver medal 25th Balkan Mathematical Olympiad, Republic of Macedonia
- 2008 Gold medal 1st Romanian Master in Mathematics, Romania
- 2007 Bronze medal 48th International Mathematical Olympiad, Vietnam
- 2007 Silver medal International Arhimede contest, Romania
- 2007 Bronze medal 24th Balkan Mathematical Olympiad, Greece
- 2006 Bronze medal 47th International Mathematical Olympiad, Slovenia
- 2004 Silver medal Junior Balkan Mathematical Olympiad, Serbia

* The first female participant from the area of former Yugoslavia who won three medals at International mathematical Olympiads (IMO).

Physics competitions, 2004-2006: 3 first prizes at republic/federal physics competitions in Serbia and Montenegro

PROJECTS and GRANTS_____

2024-present	Member of project A-PLUS -Approximate Algebraic Structures of Higher Order: Theory, Quantitative Aspects and Applications
	Selected by <i>Program for Excellent Projects of Young Researchers and Scientists in the Early Stage of Career – PROMIS 2023</i> , financed by the Science Fund of the Republic of Serbia
	Note: This project is the only project in pure mathematics selected by PROMIS 2023
2022-present	Member of project MEGIC -Integrability and Extremal Problems in Mechanics, Geometry and
	Combinatorics, selected by program IDEAS, financed by the Science Fund of the Republic of
	Serbia
2020-present	Grant by the Ministry of Education, Science, and Technological Development of the Republic of
	Serbia, for the Faculty of Mathematics, no. 451-03-47/2023-01/ 200104 for year 2023.
2020-2021	Bilateral project between Slovenia and Serbia- Discrete Morse theory and its applications
	Project coordinators: Aleš Vavpetič (Institute for mathematics, physics and mechanics,
	University of Ljubljana, Slovenia) and Đorđe Baralić (Mathematical Institute SANU, Serbia)
2014-2019	Project 174034 - Topology, geometry and global analysis on manifolds and discrete
	structures, financed from national funds

ORGANIZING ACTIVITIES _____

2023	MSRI Special Session: Geometric and Topological Combinatorics
	Joint Mathematics Meetings, Boston, USA, 2023. (with M. Bayer and J. Vega)

CONFERENCES, RESEARCH VISITS, TALKS______

2022	XII Symposium "Mathematics and Applications", Belgrade, Serbia
	Talk: Cut Complexes of Graphs
2022	29th British Combinatorial Conference, Lancaster, United Kingdom
	Talk: Cut Complexes
2022	14th Nordic Combinatorial Conference, Tromso, Norway
	Talk: Perfect Matching Complexes of Honeycomb Graphs
2022	Copenhagen-Jerusalem Combinatorics Seminar
	Talk: Matching complexes of graphs & Manifolds
2021	MSRI (Mathematical Sciences Research Institute, Berkeley, USA) Summer Research Program
	Supported by the National Science Foundation (USA) under Grant No. DMS-1440140
	Research program with M. Bayer and J. Vega.
2021	Graduate Research Workshop in Combinatorics 2021
2020	Women in Quant Finance Event (online event hosted by G-Research, London, UK)
2020	Bay Area Discrete Math Day (online event hosted by the University of California, Davis, USA)
2018	TRIPODS Summer Bootcamp: Topology and Machine Learning, ICERM, Providence, RI, USA
2018	Graduate Research Workshop in Combinatorics, Iowa, USA
2018	Einstein Workshop Discrete Geometry and Topology, FU Berlin, Germany
2017	Introductory Workshop: Geometric and Topological Combinatorics, MSRI, Berkeley, USA
2017	Connections for Women Workshop: Geometric and Topological Combinatorics, MSRI, Berkeley, USA
2017	NSFOCS 2017, Novi Sad Workshop on Foundations of Computer Science, Novi Sad, Serbia
	Talk: Combinatorics of unavoidable complexes
2017	Mathematics Research Communities Summer Conference "Beyond Planarity: Crossing Numbers", Utah, USA
2016	Research Visit, The University of Texas at Dallas, USA
2016 F	all ICERM - Institute for Computational and Experimental Research in Mathematics, Providence, RI, USA
	Semester Program "Topology in Motion",
	Workshops: Unusual Configuration Spaces,
	Stochastic Topology and Thermodynamic Limits,
	Topology and Geometry in a Discrete Setting
	Talk: On Knaster's Problem
2016	The Mathematics of Jiri Matoušek Conference, Prague, Czech Republic
2016	Ratonal Homotopy Theory Summer School, Rabat, Morocco
2015	Discrete Geometry Workshop, Moscow, Russia

2015 *3rd Heidelberg Laureate Forum,* Heidelberg, Germany

- 2015 BMS Summer school on Convex geometry discrete and computational, Berlin, Germany
- 2015 Summer school on Computational topology, ACAT 2015, Slovenia
- 2015 Oberwolfach Seminar: Topological Combinatorics of Configuration Spaces, Germany
- 2015 HTCA 2015 Homology: Theoretical and Computational Aspects, Genoa, Italy
- 2015 XXIst Oporto Meeting on Geometry, Topology and Physics Applications of Topology, Lisbon, Portugal
- 2012 XVII Geometrical Seminar, Zlatibor, Serbia
- 2010 Geometry, Dynamics, Integrable Systems GDIS, Fruška Gora, Serbia
- 2008 Geometry, Dynamics, Integrable Systems GDIS, Belgrade, Serbia

SOME SYNERGISTIC ACTIVITIES

- 2022 Invited interview for the celebration of 10th anniversary of the European Girls Mathematical Olympiad https://egmo2022.hu/videos/
- 2022 Presentation at the workshop "Perspectives of the young scientists in Serbia", organized by the Student Seminar of the Mathamatical Institute (Serbian Institute for Sciences and Arts)
- 2018 Coordinator at 35th Balkan Mathematical Olympiad, Serbia
- 2017 Coordinator at 6th European Girls' Mathematical Olympiad, Switzerland
- 2016 Deputy leader for Serbia team at 5th European Girls' Mathematical Olympiad, Romania
- 2015 Deputy leader for Serbia team at 4th European Girls' Mathematical Olympiad, Belarus
- 2014 Deputy leader for Serbia team at 3rd European Girls' Mathematical Olympiad, Turkey
- 2013 Deputy leader for Serbia team at 2nd European Girls' Mathematical Olympiad, Luxembourg
- 2013 Leader for the team of University of Belgrade at 7th SEEMOUS, Athens, Greece
- 2012 "May the Month of Mathematics" event, a volunteer
- 2012 Deputy leader for Serbia team at Arhimede contest, Romania
- 2011 Award: "Winner of Club 27 for Science", by Erste bank, for year 2010
- 2009 Member of Jury for the 26th Balkan Mathematical Olympiad, Serbia