

IVAN DAMNJANOVIĆ

Curriculum Vitæ



Birth Date: March 15, 1996
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ResearchGate **Google Scholar**
LinkedIn **GitHub**
IMO

BACKGROUND

EDUCATIONAL BACKGROUND

Faculty of Mathematics, Natural Sciences and Information Technologies, University of Primorska

Doctor of Science in Mathematical Sciences (Oct 2023 – present)

Study Program: Mathematical Sciences

Thesis: *Some results in spectral and extremal graph theory*

Faculty of Electronic Engineering, University of Niš

Doctor of Science in Electrical Engineering and Computing (Nov 2020 – Jul 2024)

Study Program: Electrical Engineering and Computing (Applied Mathematics)

GPA: 10.00 (out of 10) ECTS: 180

Thesis: *Some contributions to spectral graph theory*

Master in Electrical Engineering and Computing (Oct 2019 – Oct 2020)

Study Program: Computing and Informatics (Data Engineering)

GPA: 10.00 (out of 10) ECTS: 64

Thesis: *Biological sequence analysis using systems for big data processing*

Bachelor with Honours in Electrical Engineering and Computing (Oct 2015 – Sep 2019)

Study Program: Electrical Engineering and Computing (Computing and Informatics)

GPA: 10.00 (out of 10) ECTS: 263

Thesis: *Spectral theory in statistical methods for text analysis*

ACADEMIC POSITIONS HELD

Mathematical Institute, Serbian Academy of Sciences and Arts

Research Associate (Oct 2026 – present)

Department of Mathematics, Faculty of Electronic Engineering, University of Niš

Research Associate (Feb 2025 – Oct 2026)

Teaching Assistant (Dec 2021 – Oct 2026)

Junior Teaching Assistant (Jan 2020 – Dec 2021)

ENGINEERING POSITIONS HELD

Diffine LLC

AI Research Scientist (May 2021 – Oct 2024)

Fazi LLC

Algorithm Designer (Apr 2021 – Jun 2021)

Faculty of Electronic Engineering, University of Niš

Intern, CIITLab (Apr 2020 – May 2020)

Troxco LLC

Intern (Jul 2018 – Aug 2018)

TEACHING

COURSES TAUGHT

Faculty of Electronic Engineering, University of Niš

Mathematics 1, Bachelor's Studies

Practical Classes (Oct 2020 – Oct 2026)

Graph Theory, Bachelor's Studies

Practical Classes (Feb 2020 – Oct 2026)

Mathematics 2, Bachelor's Studies

Practical Classes (Feb 2020 – Oct 2026)

Discrete Mathematics, Bachelor's Studies

Practical Classes (Oct 2020 – Oct 2021)

EXTRACURRICULAR TEACHING

Faculty of Electronic Engineering, University of Niš

Preparatory classes for the faculty entrance exam (Jun 2022, Jun 2024, Jun 2025, Jun 2026)

Preparatory classes for the Elektrijska competition in Mathematics 1 (Mar 2017, Apr 2022, Apr 2023, Apr 2024, Apr 2026)

Svetozar Marković Grammar School, Niš, Serbia

Online preparatory classes for the high school mathematics competition (Mar 2021)

RESEARCH

RESEARCH INTERESTS

Graph Theory

Discrete Mathematics

Combinatorics

Linear Algebra

RESEARCH PROJECTS

Science Fund of the Republic of Serbia

Investigator, Lazy walk counts and spectral radius of threshold graphs (Dec 2023 – Oct 2026)

Ministry of Science, Technological Development and Innovation of the Republic of Serbia

Investigator, Reinforcement learning for graph theory (Jul 2024 – Jul 2026)

RESEARCH VISITS

Department of Mathematics and Applications “Renato Caccioppoli”, University of Naples Federico II (Jul 2025)

Faculty of Mathematics, Physics and Geodesy, Graz University of Technology (Aug 2024)

Faculty of Science and Mathematics, University of Montenegro (Oct 2023)

Faculty of Mathematics and Physics, University of Ljubljana (Dec 2022)

Faculty of Mathematics, Natural Sciences and Information Technologies, University of Primorska (Dec 2022, Aug 2026)

ENGINEERING

ENGINEERING PROJECTS

Diffine LLC

Artificial tissue dataset generation (Feb 2024 – Apr 2024)

Cell membrane permeability modeling (Jan 2024 – Feb 2024)

Scheduling algorithm design (Dec 2022 – Jan 2024)

Computational geometry algorithm design (Jul 2021 – Mar 2023)

Medical image registration (Aug 2021 – Dec 2022)

Fazi LLC

Mathematical algorithm design for various casino games (Apr 2021 – Jun 2021)

Faculty of Electronic Engineering, University of Niš

Biological sequence analysis in PySpark (Jul 2020 – Oct 2020)

Neural network training for adversarial robustness in PyTorch (Jun 2020 – Jul 2020)

Working time information system (Mar 2018 – Jun 2018)

Optimal solution finder for an arithmetic quiz game (Nov 2017 – Jan 2018)

Other

Browser extension for automated game playing (Sep 2019 – Apr 2020)

PROFESSIONAL SERVICES

ASSOCIATIONS AND MEMBERSHIPS

International Linear Algebra Society (Oct 2023 – present)

Mathematical Society of Serbia (Oct 2023 – present)

CONFERENCES AND WORKSHOPS: ORGANIZATION

Computers in Scientific Discovery 11, Kranjska Gora, Slovenia, May 4–8, 2026

Organizing Committee Member

Joint European Thermodynamics Conference, Belgrade, Serbia, May 26–30, 2025

Organizing Committee Member

1st Chinese-SouthEastEuropean Conference on Discrete Mathematics and Applications, Belgrade, Serbia, Jun 9–14, 2024

Organizing Committee Member

10th Slovenian Conference on Graph Theory, Kranjska Gora, Slovenia, Jun 18–24, 2023

Volunteer

Chemical Graph Theory Conference, Sombor, Serbia, Jun 3–5, 2022

Organizing Committee Member

JOURNAL ARTICLES: REFEREEING

Aequationes Mathematicae (2024 – present): One review

Ars Combinatoria (2024 – present): One review

Ars Mathematica Contemporanea (2023 – present): Two reviews

Computational and Applied Mathematics (2024 – present): Two reviews

Demonstratio Mathematica (2025 – present): One review

Discrete Applied Mathematics (2024 – present): 6 reviews

Discrete Mathematics (2023 – present): One review

Discrete Mathematics & Theoretical Computer Science (2024 – present): One review

Discrete Optimization (2025 – present): One review

Facta Universitatis, Series: Mathematics and Informatics (2024 – present): One review

Filomat (2024 – present): One review

Journal of Algebraic Combinatorics (2024 – present): One review

Journal of Combinatorial Theory, Series A (2025 – present): One review

Matematički Vesnik (2023 – present): One review

The Electronic Journal of Combinatorics (2024 – present): One review

TWMS Journal of Applied and Engineering Mathematics (2024 – present): One review

PUBLICATIONS

THESES

3. I. Damnjanović, *Some contributions to spectral graph theory*, Doctoral dissertation, Faculty of Electronic Engineering, University of Niš, Niš, 2023, in Serbian, https://hdl.handle.net/21.15107/rcub_nardus_22804.
2. I. Damnjanović, *Biological sequence analysis using systems for big data processing*, Master's thesis, Faculty of Electronic Engineering, University of Niš, Niš, 2020, in Serbian.
1. I. Damnjanović, *Spectral theory in statistical methods for text analysis*, Bachelor's thesis, Faculty of Electronic Engineering, University of Niš, Niš, 2019, in Serbian.

JOURNAL ARTICLES: SCIE-INDEXED

27. D. Denčić, H. Stanković, M. Krstić and I. Damnjanović, q -numerical radius of rank-one operators and the generalized Buzano inequality, *Miskolc Math. Notes*, in press.

26. I. Damnjanović, N. Bašić, T. Pisanski and A. Žitnik, Classification of quartic bicirculant nut graphs, *Discuss. Math. Graph Theory*, in press.
25. Đ. Stevanović, I. Damnjanović and D. Stevanović, Finding counterexamples for a conjecture of Akbari, Alazemi and Anđelić, *Appl. Anal. Discrete Math.*, in press.
24. N. Bašić, I. Damnjanović and P. W. Fowler, On the degrees of regular nut graphs and Cayley nut graphs, *Ars Math. Contemp.*, <https://doi.org/10.26493/1855-3974.3641.49c>.
23. I. Damnjanović, M. Damnjanović, I. Milošević and D. Stevanović, A polynomial GCD certificate for exact flat bands in finite-range Bloch Hamiltonians, *J. Phys. A: Math. Theor.* **59**(37) (2026), 375206, <https://doi.org/10.1088/1751-8121/aea3c8>.
22. I. Damnjanović, A. Xu and K. Xu, On the transmission irregular trees with the maximum Wiener index, *J. Comb. Optim.* **51**(1) (2026), Art. No. 12, <https://doi.org/10.1007/s10878-025-01383-3>.
21. N. Bašić and I. Damnjanović, Nut graphs with a prescribed number of vertex and edge orbits, *J. Algebr. Comb.* **63**(1) (2026), Art. No. 9, <https://doi.org/10.1007/s10801-025-01492-6>.
20. S. Xu, K. Xu and I. Damnjanović, Maximum number of spanning trees and connectivity: Graphs with a fixed minimum degree and bipartite graphs, *Discuss. Math. Graph Theory* **46**(2) (2026), 507–526, <https://doi.org/10.7151/dmgt.2614>.
19. I. Damnjanović, Vertex-transitive nut graph order–degree existence problem, *Discrete Math. Theor. Comput. Sci.* **28**(2) (2026), #6, <https://doi.org/10.46298/dmtcs.15989>.
18. I. Stošić, Ž. Randelović and I. Damnjanović, On the number of $\mathbb{F}$ -arithmetic expressions in n distinct variables, *Discrete Appl. Math.* **386** (2026), 279–292, <https://doi.org/10.1016/j.dam.2026.02.011>.
17. I. Stošić and I. Damnjanović, An efficient algorithm for generating transmission irregular trees, *Comput. Appl. Math.* **45**(2) (2026), Art. No. 80, <https://doi.org/10.1007/s40314-025-03474-7>.
16. H. Stanković, M. Krstić and I. Damnjanović, Some properties of the q -numerical radius, *Linear Multilinear Algebra* **73**(8) (2025), 1736–1757, <https://doi.org/10.1080/03081087.2024.2438927>.
15. I. Damnjanović, On the maximum spectral radius of connected graphs with a prescribed order and size, *Filomat* **39**(34) (2025), 12281–12297, <https://doi.org/10.2298/FIL2534281D>.
14. I. Stošić, I. Damnjanović and Ž. Randelović, Counting the number of inequivalent arithmetic expressions on n variables, *Filomat* **39**(3) (2025), 949–962, <https://doi.org/10.2298/FIL2503949S>.
13. P. Csikvári, I. Damnjanović, M. Milošević, I. Stanković and D. Stevanović, Classification of borderenergetic chemical graphs and borderenergetic graphs of order 12, *Discrete Appl. Math.* **376** (2025), 394–403, <https://doi.org/10.1016/j.dam.2025.07.035>.
12. N. Bašić and I. Damnjanović, On cubic polycirculant nut graphs, *Comput. Appl. Math.* **44**(5) (2025), Art. No. 265, <https://doi.org/10.1007/s40314-025-03218-7>.
11. Y. Alizadeh, N. Bašić, I. Damnjanović, T. Došlić, T. Pisanski, D. Stevanović and K. Xu, Solving the Mostar index inverse problem, *J. Math. Chem.* **62**(5) (2024), 1079–1093, <https://doi.org/10.1007/s10910-024-01581-0>.
10. I. Damnjanović and Ž. Randelović, An inverse result for Wang’s theorem on extremal trees, *Filomat* **38**(3) (2024), 1085–1099, <https://doi.org/10.2298/FIL2403085D>.
9. I. Damnjanović, N. Bašić, T. Pisanski and A. Žitnik, Classification of cubic tricirculant nut graphs, *Electron. J. Comb.* **31**(2) (2024), #P2.31, <https://doi.org/10.37236/12668>.
8. I. Damnjanović, Characterization of transmission irregular starlike and double starlike trees, *Comput. Appl. Math.* **43**(4) (2024), Art. No. 262, <https://doi.org/10.1007/s40314-024-02777-5>.
7. I. Damnjanović, Complete resolution of the circulant nut graph order–degree existence problem, *Ars Math. Contemp.* **24**(4) (2024), #P4.03, <https://doi.org/10.26493/1855-3974.3009.6df>.
6. I. Damnjanović, D. Stevanović and S. Al-Yakoob, On transmission-irregular graphs and long pendent paths, *Appl. Math. Comput.* **482** (2024), 128918, <https://doi.org/10.1016/j.amc.2024.128918>.

5. I. Damnjanović, M. Milošević and D. Stevanović, A note on extremal Sombor indices of trees with a given degree sequence, *MATCH Commun. Math. Comput. Chem.* **90**(1) (2023), 197–202, <https://doi.org/10.46793/match.90-1.197D>.
4. I. Damnjanović, S. Filipovski and D. Stevanović, Spectral properties of balanced trees and dendrimers, *Linear Algebra Appl.* **657** (2023), 163–196, <https://doi.org/10.1016/j.laa.2022.10.020>.
3. I. Damnjanović, Two families of circulant nut graphs, *Filomat* **37**(24) (2023), 8331–8360, <https://doi.org/10.2298/FIL2324331D>.
2. I. Damnjanović and D. Stevanović, On circulant nut graphs, *Linear Algebra Appl.* **633** (2022), 127–151, <https://doi.org/10.1016/j.laa.2021.10.006>.
1. J. Džunić and I. Damnjanović, General approach to constructing optimal multipoint families of iterative methods using Hermite’s rational interpolation, *J. Comput. Appl. Math.* **321** (2017), 261–269, <https://doi.org/10.1016/j.cam.2017.02.039>.

JOURNAL ARTICLES: NON-SCIE-INDEXED

4. I. Damnjanović, A note on Cayley nut graphs whose degree is divisible by four, *Art Discrete Appl. Math.* **9**(2) (2026), #P2.02, <https://doi.org/10.26493/2590-9770.1662.4e9>.
3. I. Damnjanović, On the null spaces of quartic circulant graphs, *Discrete Math. Chem.* **1**(1) (2025), #P1.04, <https://doi.org/10.26493/2820-6657.6.5a1>.
2. I. Damnjanović and D. Stevanović, An alternative proof of the Sombor index minimizing property of greedy trees, *Publ. Inst. Math., Nouv. Sér.* **113**(127) (2023), 57–65, <https://doi.org/10.2298/PIM2327057D>.
1. I. Damnjanović, Computing the characteristic polynomials of rooted trees and the energies of Bethe trees, *Appl. Math. Comput. Sci.* **7**(1) (2023), 1–16, <http://operator.pmf.ni.ac.rs/amcs/volumes/2023/amcs-2023-7-1-1.pdf>.

PREPRINTS

7. S. Xu, I. Damnjanović and K. Xu, Maximum number of spanning trees in bipartite graphs with a given diameter, 2026, [arXiv:2609.15502](https://arxiv.org/abs/2609.15502) [math.CO].
6. K. Xu, I. Damnjanović, U. Milivojević and S. Klavžar, Edge transmission irregular graphs, 2026, [arXiv:2607.10739](https://arxiv.org/abs/2607.10739) [math.CO].
5. I. Damnjanović and I. Đorđević, Computation of small reflective and dihedral Ramsey numbers, 2026, [arXiv:2607.06817](https://arxiv.org/abs/2607.06817) [math.CO].
4. I. Damnjanović, T. Ha and D. Stevanović, Upper bounds for the Laplacian spectral radius: Proofs and counterexamples, 2026, [arXiv:2606.14550](https://arxiv.org/abs/2606.14550) [math.CO].
3. N. Bašić, I. Damnjanović, D. Stevanović and I. Stošić, Some results on small ordered and cyclic Ramsey numbers, 2026, [arXiv:2604.16188](https://arxiv.org/abs/2604.16188) [math.CO].
2. I. Damnjanović, U. Milivojević, I. Đorđević and D. Stevanović, RLGT: A reinforcement learning framework for extremal graph theory, 2026, [arXiv:2602.17276](https://arxiv.org/abs/2602.17276) [cs.LG].
1. P. Csikvári, I. Damnjanović, D. Stevanović and S. Wagner, Some bounds on the spectral radius of connected threshold graphs, 2024, [arXiv:2412.16019](https://arxiv.org/abs/2412.16019) [math.CO].

SOFTWARE

15. K. Xu, I. Damnjanović, U. Milivojević and S. Klavžar, Edge transmission irregular graphs: Supplementary material (GitHub repository), <https://github.com/Ivan-Damnjanovic/eti-graphs>.
14. I. Damnjanović and I. Đorđević, Computation of small reflective and dihedral Ramsey numbers: Supplementary material (GitHub repository), <https://github.com/IrenaDJ/ref-dih-ram-num>.

13. I. Damnjanović, T. Ha and D. Stevanović, Upper bounds for the Laplacian spectral radius: Proofs and counterexamples: Supplementary material (GitHub repository), <https://github.com/Ivan-Damnjanovic/bhs-bounds>.
12. N. Bašić, I. Damnjanović, D. Stevanović and I. Stošić, Some results on small ordered and cyclic Ramsey numbers: Supplementary material (GitHub repository), <https://github.com/Ivan-Damnjanovic/ord-ram-num>.
11. I. Damnjanović, U. Milivojević, I. Đorđević and D. Stevanović, Reinforcement Learning for Graph Theory (RLGT), <https://github.com/Ivan-Damnjanovic/rlgt>.
10. I. Damnjanović, M. Damnjanović, I. Milošević and D. Stevanović, Polynomial indicator of flat bands: Supplementary material (GitHub repository), https://github.com/dragance106/flat_band_poly.
9. I. Damnjanović, Vertex-transitive nut graph order–degree existence problem: Supplementary material (GitHub repository), <https://github.com/Ivan-Damnjanovic/vt-nut-graphs>.
8. I. Stošić, Ž. Randelović and I. Damnjanović, On the number of $\mathbb{F}$ -arithmetic expressions in n distinct variables: Supplementary material (GitLab repository), <https://gitlab.com/ivan100sic/arithmetic-expression-counting>.
7. I. Stošić and I. Damnjanović, An efficient algorithm for generating transmission irregular trees: Supplementary material (GitLab repository), <https://gitlab.com/ivan100sic/trees-transmission>.
6. H. Stanković, M. Krstić and I. Damnjanović, Some properties of the q -numerical radius: Supplementary material (GitHub repository), <https://github.com/Ivan-Damnjanovic/q-radius-visualization>.
5. I. Damnjanović, On the maximum spectral radius of connected graphs with a prescribed order and size: Supplementary material (GitHub repository), <https://github.com/Ivan-Damnjanovic/spectral-radius-connected-graphs>.
4. P. Csikvári, I. Damnjanović, M. Milošević, I. Stanković and D. Stevanović, Classification of borderenergetic chemical graphs and borderenergetic graphs of order 12: Supplementary material (GitHub repository), <https://github.com/Ivan-Damnjanovic/borderenergetic-graphs>.
3. N. Bašić and I. Damnjanović, On cubic polycirculant nut graphs: Supplementary material (GitHub repository), <https://github.com/nbasic/cubic-polycirculant-nuts>.
2. I. Damnjanović, Transmission irregular starlike and double starlike tree confirmation script, 2024, <https://doi.org/10.5281/zenodo.11086088>.
1. D. Stevanović and I. Damnjanović, Testing framework for nut circulant graphs, 2021, <https://doi.org/10.5281/zenodo.4708608>.

PRESENTATIONS

CONFERENCES AND WORKSHOPS: CONTRIBUTED TALKS

12. Reinforcement learning meets graph theory: A new framework (joint work with U. Milivojević, I. Đorđević and D. Stevanović), Computers in Scientific Discovery 11, Kranjska Gora, Slovenia, May 4–8, 2026.
11. Polynomial indicator of flat bands (joint work with M. Damnjanović, I. Milošević and D. Stevanović), 9th European Congress of Mathematics, Sevilla, Spain, Jul 15–19, 2024.
10. On transmission irregular graphs: Starlike and double starlike trees and long pendent paths (joint work with D. Stevanović and S. Al-Yakoob), 15th Serbian Mathematical Congress, Belgrade, Serbia, Jun 19–22, 2024.
9. Polynomial indicator of flat bands (joint work with M. Damnjanović, I. Milošević and D. Stevanović), 1st Chinese-SouthEastEuropean Conference on Discrete Mathematics and Applications, Belgrade, Serbia, Jun 9–14, 2024.
8. An inverse result for Wang’s theorem on extremal trees (joint work with Ž. Randelović), 4th Montenegrin Symposium on Graphs, Informatics and Algebra, Petrovac, Montenegro, Oct 6–9, 2023.

7. An algorithmic approach to extending a theorem on extremal trees by Wang (joint work with Ž. Randelović), Chemical Graph Theory Minisymposium, 10th Slovenian Conference on Graph Theory, Kranjska Gora, Slovenia, Jun 18–24, 2023.
6. Resolution of the circulant nut graph order–degree existence problem, 25th Conference of the International Linear Algebra Society, Madrid, Spain, Jun 12–16, 2023.
5. Resolution of the circulant nut graph order–degree existence problem, Graph Spectra, Combinatorial Graph Theory, Group Theory and Nano-Molecular-Electronic-Devices, online, Mar 28–30, 2023.
4. Finding all the extremal trees corresponding to a given degree sequence for certain functions on adjacent vertex degrees, 2nd Joint Mathematical Meeting of Serbia and Montenegro, Belgrade, Serbia, Jan 26–28, 2023.
3. On circulant nut graphs (joint work with D. Stevanović), Congress of Young Mathematicians in Novi Sad, Novi Sad, Serbia, Sep 29 – Oct 1, 2022.
2. Assigned rational functions of a rooted tree, Graph Spectra Minisymposium, 24th Conference of the International Linear Algebra Society, Galway, Ireland, Jun 20–24, 2022.
1. Assigned rational functions of a rooted tree, Chemical Graph Theory Conference, Sombor, Serbia, Jun 3–5, 2022.

CONFERENCES AND WORKSHOPS: POSTER SESSIONS

2. Maximum index of connected graphs, 13th European Conference on Combinatorics, Graph Theory and Applications, Aug 25–29, 2025.
1. Circulant nut graphs and beyond, Poster Flash, 11th Heidelberg Laureate Forum, Heidelberg, Germany, Sep 22–27, 2024.

SEMINARS HELD

14. Reinforcement learning for graph theory: A unified framework for extremal problems (joint work with U. Milivojević, I. Đorđević and D. Stevanović), Artificial Intelligence Seminar, Mathematical Institute, Serbian Academy of Sciences and Arts, online, Apr 8, 2026.
13. Reinforcement learning meets graph theory: A new framework (joint work with U. Milivojević, I. Đorđević and D. Stevanović), Seminar in Biomathematics and Mathematical Chemistry, Faculty of Mathematics, Natural Sciences and Information Technologies, University of Primorska, online, Mar 26, 2026.
12. Some results in spectral and extremal graph theory, Mathematical Research Seminar, Faculty of Mathematics, Natural Sciences and Information Technologies, University of Primorska, Koper, Slovenia, Jan 14, 2026.
11. On the number of $\mathbb{F}$ -arithmetic expressions in n distinct variables (joint work with I. Stošić and Ž. Randelović), Monday Computer Science Seminar, Faculty of Mathematics, Natural Sciences and Information Technologies, University of Primorska, Koper, Slovenia, Dec 15, 2025.
10. Vertex-transitive nut graph order–degree existence problem, Mathematical Research Seminar, Faculty of Mathematics, Natural Sciences and Information Technologies, University of Primorska, Koper, Slovenia, Dec 15, 2025.
9. On the maximum spectral radius of connected graphs with a prescribed order and size, Seminar in Biomathematics and Mathematical Chemistry, Faculty of Mathematics, Natural Sciences and Information Technologies, University of Primorska, online, May 8, 2025.
8. On cubic polycirculant nut graphs and the degrees of regular nut graphs (joint work with N. Bašić and P. W. Fowler), Seminar in Discrete Mathematics, Faculty of Mathematics and Physics, University of Ljubljana, Ljubljana, Slovenia, Jan 21, 2025.
7. Finding the number of inequivalent arithmetic expressions on n variables (joint work with I. Stošić and Ž. Randelović), Monday Computer Science Seminar, Faculty of Mathematics, Natural Sciences and Information Technologies, University of Primorska, Koper, Slovenia, Jan 20, 2025.

6. On cubic polycirculant nut graphs and the degrees of regular nut graphs (joint work with N. Bašić and P. W. Fowler), Mathematical Research Seminar, Faculty of Mathematics, Natural Sciences and Information Technologies, University of Primorska, Koper, Slovenia, Jan 20, 2025.
5. On the spectral radius of threshold graphs (joint work with P. Csikvári, D. Stevanović and S. Wagner), Mathematics Colloquium, Mathematical Institute, Serbian Academy of Sciences and Arts, Belgrade, Serbia, Nov 8, 2024.
4. On transmission irregular graphs: Starlike and double starlike trees and long pendent paths (joint work with D. Stevanović and S. Al-Yakoob), Seminar in Biomathematics and Mathematical Chemistry, Faculty of Mathematics, Natural Sciences and Information Technologies, University of Primorska, online, Nov 30, 2023.
3. An inverse result for Wang's theorem on extremal trees (joint work with Ž. Randelović), Faculty of Science and Mathematics, University of Montenegro, Podgorica, Montenegro, Oct 5, 2023.
2. Resolution of the circulant nut graph order–degree existence problem, Seminar in Discrete Mathematics, Faculty of Mathematics and Physics, University of Ljubljana, Ljubljana, Slovenia, Dec 6, 2022.
1. Resolution of the circulant nut graph order–degree existence problem, Mathematical Research Seminar, Faculty of Mathematics, Natural Sciences and Information Technologies, University of Primorska, Koper, Slovenia, Dec 5, 2022.

MISCELLANEOUS

AWARDS AND DISTINCTIONS

Alumnus, 11th Heidelberg Laureate Forum, Heidelberg, Germany, Sep 22–27, 2024

HIGH SCHOOL OLYMPIADS

International Mathematical Olympiad

Bronze Medal, Chiang Mai, Thailand, Jul 4–16, 2015

Bronze Medal, Santa Marta, Colombia, Jul 18–28, 2013

Balkan Mathematical Olympiad

Bronze Medal, Agros, Cyprus, Jun 28 – Jul 3, 2013

Bronze Medal, Antalya, Turkey, Apr 26 – May 2, 2012

Serbian Mathematical Olympiad

First Place Award, Belgrade, Serbia, Mar 27–28, 2015

Third Place Award, Novi Sad, Serbia, Apr 5–6, 2014

Second Place Award, Novi Sad, Serbia, Apr 5–6, 2013

Second Place Award, Belgrade, Serbia, Mar 31 – Apr 1, 2012

Serbian Olympiad in Informatics

Third Place Award, Belgrade, Serbia, May 16–17, 2015

ELEMENTARY SCHOOL OLYMPIADS

Serbian Junior Mathematical Olympiad

First Place Award, Belgrade, Serbia, May 28, 2011

Third Place Award, Belgrade, Serbia, Jun 2–3, 2010

Serbian Junior Olympiad in Informatics

Second Place Award, Belgrade, Serbia, Jun 4, 2011