

Personal data

E-mail: nevena.pivac@gmail.com
Date of birth: April 16, 1994
Nationality: BIH/RS

Education

- Oct 2017 - (ongoing) **PhD in Mathematics**, *University of Primorska, Faculty of Mathematics, Natural Sciences and Information Technologies (FAMNIT)*, Koper, Slovenia, Advisor: Martin Milanič
- Oct 2016 - Aug 2020 **Master in Computer Science**, *University of Primorska, Faculty of Mathematics, Natural Sciences and Information Technologies (FAMNIT)*, Koper, Slovenia
Master thesis: Graph search algorithms and structure of graph search trees, advisor: Matjaž Krnc
Average: 9.86/10
- Oct 2015 - Sep 2017 **Master in Mathematics**, *University of Primorska, Faculty of Mathematics, Natural Sciences and Information Technologies (FAMNIT)*, Koper, Slovenia
Master thesis: The University Timetabling Problem - Complexity and an Integer Linear Programming Formulation: a Case Study of UP FAMNIT, advisor: Martin Milanič
Average: 10/10
- Oct 2012 - June 2015 **Bachelor in Mathematics**, *University of Primorska, Faculty of Mathematics, Natural Sciences and Information Technologies (FAMNIT)*, Koper, Slovenia
Thesis about Pythagoreah-Hodograph curves, advisor: Vito Vitrih
Average: 9.86/10
- 2008 - 2012 **Gimnasium**, *Gradiška, Bosnia and Herzegovina*

Work experience

- Sep 2020 – Sep 2021 Parental leave
- Dec 2021 – May 2023 Parental leave
- Oct 2017 – (ongoing) **Young Researcher**, *University of Primorska, Institute Andrej Marušič*, Koper, Slovenia
- Feb 2017 – Aug 2017 **Application developer**, *Dinit Card Services d.o.o.*, Izola, Slovenia
- Oct 2015 – Oct 2017 **Mathematics teacher**, *Academus d.o.o*, Koper, Slovenia
- July 2016 **Internship EDIT 2016 – application developer**, *Comtrade*, Banjaluka, Bosnia and Herzegovina
- Oct 2014 – Oct 2015 **Mathematics teacher**, *Students' Association of Koper Municipality*, Koper, Slovenia

Languages

Serbian	Native language	
Slovenian	Fluent	<i>Speaking, reading, writing</i>
English	Fluent	<i>Speaking, reading, writing</i>
German	Basic	<i>Basic words and phrases only</i>
Spanish	Basic	<i>Basic words and phrases only</i>

Teaching

- 2019/2020 Teaching assistant, *Analysis I (in English)*, University of Primorska, Faculty of Mathematics, Natural Sciences and Information Technologies (FAMNIT)
- 2018/2019 Teaching assistant, *Math in English, Generating Functions (in English)*, University of Primorska, Faculty of Mathematics, Natural Sciences and Information Technologies (FAMNIT)
- 2018/2019 Teaching assistant, *Analysis I (in English)*, University of Primorska, Faculty of Mathematics, Natural Sciences and Information Technologies (FAMNIT)
- 2017/2018 Teaching assistant, *Analysis I (in English)*, University of Primorska, Faculty of Mathematics, Natural Sciences and Information Technologies (FAMNIT)

Journal Publications

Computing well-covered vector spaces of graphs using modular decomposition, M. Milanič and N. Pivač, *Computational and Applied Mathematics* 42 (2023).

Fair allocation of indivisible items with conflict graphs, N. Chiarelli, M. Krnc, M. Milanič, U. Pferschy, N. Pivač, J. Schauer, *Algorithmica* 85 (2023) 1459–1489.

Allocation of Indivisible Items with Individual Preference Graphs, N. Chiarelli, C. Dallard, A. Darmann, S. Lendl, M. Milanič, P. Muršič, U. Pferschy, N. Pivač, *Discrete Applied Mathematics* 334 (2023) 45-62.

Polynomially bounding the number of minimal separators in graphs: reductions, sufficient conditions, and a dichotomy theorem, M. Milanič and N. Pivač, *The Electronic Journal of Combinatorics* 28 (2021), no. 1, Paper No. 1.41, 27 pp.

The recognition problem of graph search trees, Jesse Beisegel, Carolin Denkert, Ekkehard Köhler, Matjaž Krnc, Nevena Pivač, Robert Scheffler, Martin Strehler, *SIAM journal on discrete mathematics*. 2021, vol. 35, no.2, str. 1418-1446, ilustr. ISSN 0895-4801.

On the end-vertex problem of graph searches, Jesse Beisegel, Carolin Denkert, Ekkehard Köhler, Matjaž Krnc, Nevena Pivač, Robert Scheffler, Martin Strehler, *Discrete mathematics and theoretical computer science*. 2019, vol. 21, no. 1, p. 1-20.

Refereed Conference Publications

Allocating Indivisible Items with Minimum Dissatisfaction on Preference Graphs, N. Chiarelli, C. Dallard, A. Darmann, S. Lendl, M. Milanič, P. Muršič, N. Pivač, U. Pferschy, *Proceedings of the 7th International Conference on Algorithmic Decision Theory (ADT 2021)*, Lecture Notes in Computer Science (LNAI) 13023 (2021) 243-257.

Graphs where Search Methods are Indistinguishable, Matjaž Krnc and Nevena Pivač, *Extended Abstracts Eurocomb 2021*. Cham: Springer Nature, cop.2021. Str 351-358, ilustr. Trends in Mathematics, Vol. 14. ISBN 978-3-030-83822-5.

Fair packing of independent sets, N. Chiarelli, M. Krnc, M. Milanič, U. Pferschy, N. Pivač and J. Schauer, *Proceedings of the 31st International Workshop on Combinatorial Algorithms (IWOCA 2020)*, *Lecture Notes in Computer Science 12126 (2020)* 154-165.

Edge elimination and weighted graph classes, J. Beisegel, N. Chiarelli, E. Köhler, M. Krnc, M. Milanič, N. Pivač, R. Scheffler and M. Strehler, *Proceedings of the 46th International Workshop on Graph-Theoretic Concepts in Computer Science (WG 2020)*, *Lecture Notes in Computer Science 12301 (2020)* 134-147.

Minimal separators in graph classes defined by small forbidden induced subgraphs, Martin Milanič and Nevena Pivač, *Graph-theoretic concepts in computer science: revised papers, 45th International Workshop, WG 2019, Vall de Núria, Spain, June 19-21, 2019*, (*Lecture notes in computer science, ISSN 0302-9743, 11789*). Cham: Springer. cop. 2019, pages 379-391.

Recognizing Graph Search Trees, Jesse Beisegel, Carolin Denkert, Ekkehard Köhler, Matjaž Krnc, Nevena Pivač, Robert Scheffler, Martin Strehler, *The proceedings of Lagos 2019, the tenth Latin and American Algorithms, Graphs and Optimization Symposium (LAGOS 2019) : 2-7 June 2019, Belo Horizonte, Brazil*, (*Electronic notes in theoretical computer science, ISSN 1571-0661, Vol. 346*). Amsterdam: Elsevier. cop. 2019, vol. 346, pages 99-110.

An ILP Formulation for a Variant of the University Timetabling Problem, Martin Milanič, Nevena Pivač and Jernej Vičič, *Proceedings of the 22nd International Multiconference INFORMATION SOCIETY, Middle-European Conference on Applied Theoretical Computer Science, 2019*

Conference Talks

- EUROCOMB 2021 *Graphs Where Search Methods Are Indistinguishable.*, European Conference on Combinatorics, Graph Theory and Applications, September 2021, Barcelona, Spain (online)
- EUROCOMB 2021 *Graphs Where Search Methods Are Indistinguishable.*, StuCoSRec 2021, September 2021, Maribor, Slovenia (online)
- MATCOS 2019 *An ILP Formulation for a Variant of the University Timetabling Problem*, Middle-European Conference on Applied Theoretical Computer Science, October 2019, Koper, Slovenia
- BLED 2019 *Minimal separators in graph classes defined by small forbidden induced subgraphs*, 9th Slovenian International Conference on Graph Theory, July 2019, Bled, Slovenia
- WG 2019 *Minimal separators in graph classes defined by small forbidden induced subgraphs*, 45th International Workshop on Graph-Theoretic Concepts in Computer Science, June 2019, Vall de Nuria, Spain
- LAGOS 2019 *Recognizing Graph Search Trees*, Latin and American Algorithms, Graphs and Optimization Symposium, June 2019, Belo Horizonte, Brasil
- ICGT 2018 *On the End-Vertex Problem*, 10th International Colloquium on Graph Theory and combinatorics, July 2018, Lyon, France

Seminar Talks

- Nov 25th, 2019 *On the Graph Search Trees*, Computer Science Research Seminar, University of Primorska, Koper, Slovenia
- Nov 7th, 2019 *A dichotomy for tame graph classes defined by small forbidden induced subgraphs*, Research Seminar, Brandenburg University of Technology Cottbus-Senftenberg, Cottbus, Germany

- Oct 28th, 2019 *A dichotomy for tame graph classes defined by small forbidden induced subgraphs, Mathematical Research Seminar, University of Primorska, Koper, Slovenia*
- May 17th, 2019 *Recognizing Graph Search Trees, PhD Seminar, Charles University, Prague, Czechia*
- May 16th, 2019 *On the End-Vertex Problem of Graph Searches, PhD Seminar, Charles University, Prague, Czechia*
- Dec 4th, 2018 *The University Timetabling Problem, Research Seminar, University of Graz, Graz, Austria*
- Oct 29th, 2018 *On the End-Vertex Problem, Mathematical Research Seminar, University of Primorska, Koper, Slovenia*

Research visits

Brandenburg University of Technology Cottbus-Senftenberg, Cottbus, Germany, November 2019, October 2018, January 2018 (host: Ekkehard Köhler)
 University of Graz, Graz, Austria, May 2019, December 2018 (host: Joachim Schauer)
 Charles University, Prague, Czechia, May 2019 (host: Irena Penev)

Conferences and Summer Schools

- MATCOS 2019 Middle-European Conference on Applied Theoretical Computer Science, October 2019, Koper, Slovenia
- BLED 2019 9th International Conference on Graph Theory, July 2019, Bled, Slovenia
- WG 2019 45th International Workshop on Graph-Theoretic Concepts in Computer Science, June 2019, Vall de Nuria, Spain
- LAGOS 2019 Latin and American Algorithms, Graphs and Optimization Symposium, June 2019, Belo Horizonte, Brasil
- ICGT 2018 10th International Colloquium on Graph Theory and Combinatorics, July 2018, Lyon, France
- WG 2018 44th International Workshop on Graph-Theoretic Concepts in Computer Science Cottbus, June 2018, Germany
- BA80-DM65 2018 Graphs, groups, and more: celebrating Brian Alspach's 80th and Dragan Marušič 65th birthdays, May 2018, Koper, Slovenia
- ROGLA 2017 7th PhD Summer School of Discrete Mathematics, July 2017, Rogla, Slovenia
- ECCO 2017 Joint EURO/ORSC/ECCO Conference on Combinatorial Optimization, May 2017, Koper, Slovenia
- StES 2016 International Conference Students Encountering Science, September 2016, Banja Luka, Bosnia and Herzegovina
 Published paper "Characterization of polynomial spatial Pythagorean-Hodograph curves"
- MATCOS-2016 Middle-European Conference on Applied Theoretical Computer Science, May 2016, Koper, Slovenia

Awards and Honors

- 2018 Award for extraordinary student's results in 2018, University of Primorska
- 2017 Award for extraordinary student's results in 2017, University of Primorska
- 2012-2017 University of Primorska scholarship for successful students
- 2013/2014 Scholarship of Fund "dr. Milan Jelić"

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2014/2015 Scholarship of municipality Gradiška