

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 Pythagorean-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

Fair allocation of indivisible items with conflict graphs, N. Chiarelli, M. Krnc, M. Milanič, U. Pferschy, N. Pivač, *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"
- 2014/2015 Scholarship of Fund "dr. Milan Jelić"
- 2014/2015 Scholarship of municipality Gradiška