

# CURRICULUM VITAE

VESNA MARINKOVIĆ

---

## Contact details

Vesna Marinković  
University of Belgrade  
Faculty of Mathematics  
Studentski trg 16  
11000 Belgrade  
Serbia  
e-mail: [vesnap@matf.bg.ac.rs](mailto:vesnap@matf.bg.ac.rs)  
URL: [www.matf.bg.ac.rs/~vesnap](http://www.matf.bg.ac.rs/~vesnap)

---

## Personal Details

Gender: Female  
Maiden name: Pavlović  
Date of birth: March 24th, 1982  
Place of birth: Niš, Serbia  
Citizenship: Serbian

---

## Positions

**2016–present** Assistant professor at the Department for Computer Science, Faculty of Mathematics, University of Belgrade.

**2017–2018** Industry Relations Coordinator at the Department for Computer Science, Faculty of Mathematics, University of Belgrade.

**2009–2016** Teaching assistant at the Department for Computer Science, Faculty of Mathematics, University of Belgrade.

**2006–2009** Teaching assistant trainee at the Department for Computer Science, Faculty of Mathematics, University of Belgrade.

### Courses taught:

- Algorithms and Data Structures (lectures and exercises)
- Design and Analysis of Algorithms (lectures and exercises)
- Design and Analysis of Algorithms 2 (lectures and exercises)
- Algorithms and Data Structures (lectures at joint master programme Industry 4.0 with Faculty of Mechanical Engineering of the University of Belgrade)
- Computer Graphics (lectures)
- Artificial Intelligence (lectures)
- Introduction to Relational Databases (Programming language SQL) (exercises)
- Databases Programming (lectures and exercises)

- Databases (lectures and exercises)
  - Symbolic Calculation (lectures about Groebner Basis)
  - Introduction to Web and Internet Technologies (lectures)
  - Introduction to Programming 1 (Programming language C) (exercises)
  - Introduction to Programming 2 (Programming language C) (lectures and exercises)
  - Teaching Methods in Computer Science (Microsoft Office Tutorial) (exercises)
  - Object-oriented programming (Programming language Java) (exercises)
  - Introduction to Computer Systems (Programming language C++) (exercises)
- 

## Education

**06/2015** Defended PhD thesis: “Automated solving of construction problems in geometry”, advisor: prof. Predrag Janičić.

**04/2007–06/2015** PhD studies at Department of Computer Science, Faculty of Mathematics, University of Belgrade; GPA 10.00 (on the scale from 6.00 to 10.00).

**10/2000–07/2006** Undergraduate studies at Department of Computer Science, Faculty of Mathematics, University of Belgrade; graduated with GPA 9.45 (on the scale from 6.00 to 10.00).

**09/1996–06/2000** Secondary School “Bora Stanković” in Niš; school finished with top average mark, was awarded the best student of the generation.

**09/1988–06/1996** Elementary School “Vožd Karadjordje” in Niš; school finished with top average mark, was awarded the best student of the generation.

**09/1990–06/1996** Elementary Music School “Dr. Vojislav Vučković” in Niš.

---

## Scholarships and Awards

**2000–2006** The Scholarship of The Serbian Ministry of Science and Technology.

**1998–2000** The Scholarship of The Republic Foundation for the Development of Youth in Science and Arts.

**2000–2001** The first prize at the State Competition in Mathematics.

**1999-2000** The first prize at the State Competition “Tournament of Schools” in Mathematics.

**1998** The third prize at the International Competition “Tournament of Towns” in Mathematics, Hamburg, Germany.

**1996** The first prize at the State Competition in Mathematics and in Computer Science.

**1996** Awarded from the Serbian Mathematical Society as the best mathematician in generation for Niš county.

---

## Journal Articles and Conference Papers

- V. Marinković, T. Šukilović, F. Marić:  
Towards Automated Readable Proofs of Ruler and Compass Constructions,  
*EPTCS 398, Proceedings of the 14th International Conference on Automated Deduction in Geometry*, pp. 11–20, 2024.
- V. Marinković, M. Banković:  
Automatsko rešavanje konstruktivnih problema u geometriji,  
*Knjiga apstrakata konferencije “Veštačka inteligencija”*, pp. 66–67, 2023.
- V. Marinković, F. Marić:  
Edukativni sistemi za automatsko rešavanje konstruktivnih problema u geometriji,  
*Knjiga apstrakata konferencije “Veštačka inteligencija”*, pp. 68–69, 2023.
- M. Banković, V. Marinković:  
Automatsko rešavanje konstruktivnih problema u geometriji,  
*Book of Abstracts of XIII Simpozijum “Matematika i primene”*, pp. 15, 2023.
- V. Marinković, T. Šukilović, F. Marić:  
Automated triangle constructions in hyperbolic geometry,  
*Annals of Mathematics and Artificial Intelligence*, vol. 91, pp. 821–849, 2023.
- V. Marinković:  
Prolog in Automated Reasoning in Geometry,  
in book: *Prolog: The Next 50 Years, Lecture Notes in Artificial Intelligence*, 2023.
- V. Marinković:  
Verifiable Solving of Geometric Construction Problems in the Framework of Coherent Logic,  
*Report from Dagstuhl Seminar 21472: Geometric Logic, Constructivisation, and Automated Theorem Proving*, 2021.
- V. Marinković, T. Šukilović, F. Marić:  
Automatsko rešavanje konstruktivnih problema u apsolutnoj i hiperboličkoj geometriji,  
*Book of Abstracts of XI Simpozijum “Matematika i primene”*, 2021.
- V. Marinković, T. Šukilović, F. Marić:  
On automating triangle constructions in absolute and hyperbolic geometry,  
*EPTCS 352, Proceedings of the 13th International Conference on Automated Deduction in Geometry*, pp. 14–26, 2021.
- V. Marinković,  
Moderna nastava matematike zasnovana na metodama veštačke inteligencije,  
*Proceedings of YU INFO 2021*, pp. 87–91, 2021.
- M. Selaković, V. Marinković, P. Janičić,  
New Dynamics in Dynamic Geometry: Dragging Constructed Points,  
*Journal of Symbolic Computation*, vol 97, pp. 3–15, 2020.
- M. Nikolić, V. Marinković, Z. Kovács, P. Janičić,  
Portfolio Theorem Proving and Prover Runtime Prediction for Geometry,  
*Annals of Mathematics and Artificial Intelligence*, vol 85(2-4), pp. 119–146, 2019.
- V. Marinković,  
ArgoTriCS - Automated Triangle Construction Solver,  
*Journal of Experimental & Theoretical Artificial Intelligence*, vol. 29, no. 2, pp. 247–271, 2017.
- V. Marinković, M. Nikolić, Z. Kovacs, P. Janičić,  
Portfolio Methods in Theorem Proving for Elementary Geometry,  
*Proceedings of ADG 2016*, pp. 152–161, 2016.

- P. Schreck, P. Mathis, V. Marinković, P. Janičić,  
Wernick's List: A Final Update,  
*Forum Geometricorum*, Department of Mathematical Sciences, Florida Atlantic University, vol. 16,  
pp. 69–80, 2016.
  - P. Schreck, V. Marinković, P. Janičić,  
Constructibility Classes for Triangle Location Problems,  
*Mathematics in Computer Science*, Springer, vol 10, no. 1, pp. 27–39, 2016.
  - V. Marinković,  
On-line Compendium of Triangle Construction Problems with Automatically Generated Solutions,  
*The Teaching of Mathematics*, XVIII.1, pp. 29–44, 2015.
  - V. Marinković,  
Proof Simplification in the Framework of Coherent Logic,  
*Computing and Informatics*, vol. 34, no.2, pp.337–366, 2015.
  - V. Marinković, P. Janičić, P. Schreck,  
Computer Theorem Proving for Verifiable Solving of Geometric Construction Problems,  
In F. Botana and P. Quaresma, editors, *Automated Deduction in Geometry, ADG 2014*, volume  
9201 of *Lecture Notes in Computer Science*, pp. 72–93. Springer, 2015.
  - V. Marinković, P. Janičić,  
Towards Understanding Triangle Construction Problems,  
In J. Jeuring et al, editors, *Intelligent Computer Mathematics, CICM 2012*, volume 7362 of *Lecture  
Notes in Artificial Inteligence*, pp. 126–141, 2012.
  - S. Tomažič, **V. Pavlović**, J. Milovanović, J. Sodnik, A. Kos, S. Stancin, V. Milutinović,  
Fast file existence checking in archiving systems,  
*Transactions on Storage* 7(1): 2, 2011.
  - S. Stojanović, **V. Pavlović**, P. Janičić,  
A Coherent Logic Based Geometry Theorem Prover Capable of Producing Formal and Readable  
Proofs,  
In P. Schreck, J. Narboux, and J. Richter-Gebert, editors, *Automated Deduction in Geometry,  
ADG 2010*, volume 6877 of *Lecture Notes in Artificial Inteligence*, pp. 200–219. Springer, 2011.
- 

## Teaching materials

### Books (in Serbian)

- F. Marić, N. Alimpić, N. Vasiljević, M. Vugdelija, D. Vuković, M. Djurišić, V. Marinković, S.  
Matković, J. Hadži-Purić, M. Čabarkapa,  
Metodička zbirka algoritamskih zadataka sa rešenjima,  
Društvo matematičara Srbije i Fondacija Petlja, Beograd, 2019.  
(Collection of algorithmic problems with solutions (in Serbian))  
ISBN: 978-86-6447-014-8
- F. Marić, V. Marinković,  
Računarstvo i informatika 4, udžbenik za četvrti razred gimnazije,  
Klett, Beograd, 2017.  
(Computer Science and Informatics 4, textbook for fourth grade of high-school (in Serbian))  
ISBN: 978-86-7762-968-7

## Electronic notes (in Serbian)

- P. Janičić, V. Marinković,  
Računarska grafika  
<http://poincare.matf.bg.ac.rs/~vesnap//grafika/rg.pdf>
  - V. Marinković,  
Programiranje baza podataka  
<http://poincare.matf.bg.ac.rs/~vesnap/pbp/pbp.pdf>
  - M. Živković, V. Marinković,  
Algoritmi i strukture podataka  
<http://poincare.matf.bg.ac.rs/~vesnap//asp/asp.pdf>
  - F. Marić, V. Marinković, M. Nikolić, S. Stojanović-Djurdjević  
Algoritmi i strukture podataka  
dostupna iz delova na <http://poincare.matf.bg.ac.rs/~vesnap//asp.html>
  - M. Živković, V. Marinković  
Konstrukcija i analiza algoritama  
<http://poincare.matf.bg.ac.rs/~vesnap//kaa/kaa.pdf>
  - V. Marinković, F. Marić, S. Stanojević, S. Stojanović-Djurdjević  
Konstrukcija i analiza algoritama, teorija + rešeni zadaci  
<http://poincare.matf.bg.ac.rs/~vesnap//kaa/kiaa.pdf>
  - M. Živković, V. Marinković  
Konstrukcija i analiza algoritama 2  
<http://poincare.matf.bg.ac.rs/~vesnap//kaa2/kaa2.pdf>
  - V. Marinković  
Grebnerove baze (deo materijala za kurs Simboličko izračunavanje)  
[https://github.com/milanbankovic/symbolic\\_computing/blob/main/Grebnerove\\_baze/GroebnerBases.pdf](https://github.com/milanbankovic/symbolic_computing/blob/main/Grebnerove_baze/GroebnerBases.pdf)
- 

## Mentoring

- Mentor of 6 master theses:
    - Nikola Dimitrijević: Algorithms for collision detection in real time, 30.9.2019.
    - Anja Ivanišević: Solving stabbing queries, 22.9.2021.
    - Nemanja Jelić: Algorithms for solving widest path problem in graphs, 26.9.2022.
    - Tatjana Radovanović: Mathematical models for automated market makers, 30.9.2022.
    - Dušan Petrović: Rendering geospatial data on devices with Android operating system, 10.5.2023.
    - Milan Kocić: Data structures for efficient solving of the predecessor problem, 28.9.2023.
- 

## Research interests

- automated reasoning in geometry
  - automated and formal theorem proving in coherent logic
-

## Talks

- 12/2023** V. Marinković, M. Banković:  
Automatsko rešavanje konstruktivnih problema u geometriji,  
Konferencija “Veštačka inteligencija” 2023, Belgrade, Serbia
- 12/2023** V. Marinković, F. Marić:  
Edukativni sistemi za automatsko rešavanje konstruktivnih problema u geometriji,  
Konferencija “Veštačka inteligencija” 2023, Belgrade, Serbia
- 12/2023** M. Banković, V. Marinković:  
Automatsko rešavanje konstruktivnih problema u geometriji,  
XIII Simpozijum “Matematika i primene” 2023, Belgrade, Serbia
- 09/2023** V. Marinković, T. Šukilović, F. Marić:  
Towards automated readable proofs of ruler and compass constructions,  
ADG 2023, Belgrade, Serbia, 2023.
- 12/2021** V. Marinković, T. Šukilović, F. Marić:  
Automatsko rešavanje konstruktivnih problema u apsolutnoj i hiperboličkoj geometriji,  
XI Simpozijum “Matematika i primene” 2021, Belgrade, Serbia
- 11/2021** V. Marinković:  
Verifiable solving of geometric construction problems in the framework of coherent logic,  
Seminar “Geometric Logic, Constructivisation, and Automated Theorem Proving” 2021, Dagstuhl,  
Germany (virtual)
- 09/2021** V. Marinković, T. Šukilović, F. Marić:  
On automating triangle constructions in absolute and hyperbolic geometry,  
ADG 2021, Hagenberg, Austria (virtual)
- 07/2021** V. Marinković, F. Marić,  
Towards Next Step Guidance in Triangle Construction Problems,  
ThEdu’21, Pittsburgh, United States (virtual)
- 03/2021** V. Marinković,  
Modern teaching of mathematics based of artificial intelligence methods,  
YU INFO 2021, Kopaonik, Serbia (virtual)
- 04/2019** V. Marinković,  
Automated solving of construction problems in geometry and its applications,  
Mathematics Colloquium, Mathematical Institute of the Serbian Academy of Sciences and Arts,  
Belgrade, Serbia
- 02/2011** V. Pavlović,  
Solving Geometric Construction Problems,  
Fourth Workshop on Formal and Automated Theorem Proving and Applications, Belgrade, Serbia
- 12/2010** V. Pavlović,  
Solving construction problems in geometry,  
ARGO seminar, Belgrade, Serbia
- 11/2010** V. Pavlović,  
Report on participation of members of ARGO group at ADG conference,  
ARGO seminar, Belgrade, Serbia
- 07/2010** S. Stojanović, V. Pavlović, P. Janičić,  
Automated Generation of Formal and Readable Proofs in Geometry using Coherent Logic,  
ADG 2010, Munich, Germany

- 03/2009** S. Stojanović, **V. Pavlović**,  
Tutorial: coherent logic,  
ARGO seminar, Belgrade, Serbia
- 01/2009** **V. Pavlović**,  
XML suite for Isar,  
Workshop on Formal and Automated Theorem Proving, Belgrade, Serbia
- 01/2009** S. Stojanović, **V. Pavlović**, P. Janičić,  
Formalization and Automation of Euclidean Geometry,  
Workshop on Formal and Automated Theorem Proving, Belgrade, Serbia
- 06/2008** **V. Pavlović**, S. Stojanović,  
Formalization and Automation of Euclidean Geometry,  
ARGO seminar, Belgrade, Serbia
- 04/2008** S. Stojanović, **V. Pavlović**,  
Formalization and Automation of Euclidean Geometry,  
Spring School Geometry and Visualization, Belgrade, Serbia
- 12/2007** **V. Pavlović**,  
Phase transition in  $k$ -GD-SAT problem,  
ARGO seminar, Belgrade, Serbia
- 12/2006** J. Milovanović, **V. Pavlović**, S. Tomažič,  
Statistical Analysis on Hash Based Search,  
VIPSI-2006 Bled, Slovenia

In several occasions joint work was presented by my co-authors and colleagues:

- 06/2016** V. Marinković, M. Nikolić, Z. Kovacs, P. Janičić,  
Portfolio Methods in Theorem Proving for Elementary Geometry,  
Automated Deduction in Geometry - ADG 2016, Strasbourg, France  
(presented by Predrag Janičić)
- 02/2015** P. Schreck, P. Mathis, V. Marinković, P. Janičić,  
Straightedge and Compass Constructions: Algebraic and Logical Approaches,  
GC 2015 - International Seminar on Geometric Computation, Nanning, China  
(presented by Pascal Schreck)
- 07/2014** V. Marinković, P. Janičić, P. Schreck,  
Solving Geometric Construction Problems Supported by Theorem Proving,  
10th International Workshop on Automated Deduction in Geometry, Coimbra, Portugal  
(presented by Predrag Janičić)
- 07/2012** V. Marinković, P. Janičić,  
Towards Understanding Triangle Construction Problems,  
CICM/Mathematical Knowledge Management 2012, Bremen, Germany  
(presented by Filip Marić)
- 04/2012** P. Janičić, V. Marinković,  
Automated Synthesis of Geometric Construction Procedures,  
SVARM 2012 Workshop, Tallinn, Estonia  
(presented by Predrag Janičić)
- 02/2012** P. Janičić, V. Marinković,  
Automated Solving of Triangle Construction Problems,  
Workshop on Formal and Automated Theorem Proving 2012, Belgrade, Serbia  
(presented by Predrag Janičić)

**07/2010** S. Stojanović, **V. Pavlović**, P. Janičić,  
Automated Generation of Formal and Readable Proofs in Geometry using Coherent Logic,  
Automated Deduction in Geometry - ADG 2010, Munich, Germany  
(presented by Sana Stojanović)

---

## Visits, Conferences and Summer Schools

**09/2023** ADG 2023, Belgrade, Serbia

**11/2021** Seminar “Geometric Logic, Constructivisation, and Automated Theorem Proving” 2021, Dagstuhl, Germany (virtual)

**09/2021** ADG 2021, Hagenberg, Austria (virtual)

**03/2021** ThEdu’21, Pittsburgh, United States (virtual)

**03/2021** YU INFO 2021, Kopaonik, Serbia (virtual)

**08/2011** Summer School on Program Synthesis, Schloss Dagstuhl, Germany

**08/2010** ICT Innovations 2010, Ohrid, North Macedonia

**07/2010** International Conference on Automated Deduction in Geometry, ADG 2010, Munich, Germany

**05/2009–08/2009** Visiting researcher at Politechnical University of Valencia, Spain, under the Tempus DEUKS project

**08/2008–09/2008** ICCL Summer School 2008 on Computational Logic and Cognitive Science, Technical University Dresden, Germany

**04/2006–07/2006** Student exchange program at the Faculty of Electrical Engineering in Ljubljana, Slovenia; working on the joint project of the Faculty of Electrical Engineering in Belgrade and the Faculty of Electrical Engineering in Ljubljana: “Fast File Existence Checking in Archiving System”

**11/2005** International Conference IPSI Bled, Slovenia

**03/2005–06/2005** Student exchange program at the Faculty of Electrical Engineering in Ljubljana, Slovenia; working on the project: “Ranking the Efficient Points in DEA by Efficiency Function Using PCA”

**10/2004** International Conference IPSI Sveti Stefan, Montenegro

---

## Project involvement

**2020–2021** Involved in COST project CA19122 – “European Network for Gender Balance in Informatics (EUGAIN)”

**2019–2020** Coordinating the project BOKSUT (“Improving the software quality by introducing testing techniques”) of Ministry of Education, Science and Technological Development of Republic of Serbia

**2016–2020** Involved in COST project CA15123 – “The European research network on types for programming and verification (EUTypes)”

**2010–2019** Involved in research project of Ministry of Science of Republic of Serbia 174021 “Automated Reasoning and Data Mining”



- 2012–2013** Involved in Serbian-French cooperation project EGIDE/Pavle Savić – “Formalization and automation of geometry”
- 2009–2013** Involved in COST (EU) project IC0901 – “Rich-Model Toolkit - An Infrastructure for Reliable Computer Systems”
- 2006–2010** Involved in research project of Ministry of Science of Republic of Serbia 144030 “Automated Reasoning and Advanced Processing of Huge Amounts of Data and Text”
- 2007–2009** Involved in TEMPUS project: DEUKS (Doctoral School towards European Knowledge Society)
- 

## Additional activities

- 2023** Local chair of conference Automated Deduction in Geometry 2023, Belgrade, Serbia
- 2022–2023** National consultant for evaluation of educational materials for computer science highschool courses, financed by UNDP
- 2022–2023** Chair of admissions committee for master studies
- 2022** Jury member at the programming competition MATF Hackathon 2022.
- 2021** Member of admissions committee for master studies
- 2021** Reviewer of a university textbook “Artificial intelligence”
- 2021** Reviewer of a paper for Croatian journal Politehnika: Časopis za tehnički odgoj i obrazovanje
- 2018–today** Associate of Petlja foundation working on promotion and improvement of algorithmic literacy in Serbia and co-author of some teaching materials
- 2018–2019** Member of working groups for preparing training programme for teachers who will be teaching informatics courses in higher classes of elementary school and in first and second grade of high-school
- 2018** Lecturer at Belgrade Institute of Technology in programme for prequalification in IT, financed by UNDP
- 2008–2013** Member of the organization board of five workshop on formal and automated theorem proving, Belgrade, Serbia
- 2007–today** Secretary of ARGO Seminar (seminar of Automated Reasoning GrOup, based at the Department of Computer Science of the Faculty of Mathematics, Belgrade, Serbia)
- 2007** Leader of the team of the Faculty of Mathematics at the ACM Regional programming competition for southeastern European students, Bucharest, Romania
- 

## Language Knowledge

Serbian	native
English	fluent
German	basic
Spanish	basic

---