

TIJANA ŠUKILOVIĆ

1 Address

Faculty of Mathematics
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2 Personal Details

Gender: Female
Date of birth: December 2nd, 1983
Place of birth: Užice, Serbia
Nationality: Serbian

3 Education

- 12/2007–04/2015 PhD studies at Department of Geometry, Faculty of Mathematics, University of Belgrade, Serbia
Graduated with GPA 10.00 (out of 10.00)
- 10/2002–10/2007 Undergraduate studies at Department of Numerical Mathematics and Optimization Theory, Faculty of Mathematics, University of Belgrade, Serbia
(<http://www.matf.bg.ac.rs>)
Graduated with GPA 9.27 (out of 10.00)
- 09/1998–6/2002 Secondary school: Užička Gimnazija,
Department for natural sciences and mathematics, Užice, Serbia
(<http://www.uzickagimnazija.edu.rs>)

PhD thesis

Geometry of four-dimensional nilpotent Lie groups
Faculty of Mathematics, University of Belgrade, Serbia

4 Employment

- 2022–present Associate Professor, Geometry Department, Faculty of Mathematics, University of Belgrade
- 2015–2022 Assistant Professor, Geometry Department, Faculty of Mathematics, University of Belgrade
- 2010–2015 Assistant, Geometry Department, Faculty of Mathematics, University of Belgrade
- 2007–2010 Teaching Associate, Faculty of Mathematics, University of Belgrade

5 Research Experience

- 2022– “Integrability and Extremal Problems in Mechanics, Geometry and Combinatorics - MEGIC” (PROJECT 7744592)
- 2011–2020 “Geometry, Education and Visualization with Applications” (PROJECT 174012)
- 2007–2011 “Geometry, Education and Visualization with Application” (PROJECT 144032)
(<http://www.mi.sanu.ac.rs/projects/144032e.htm>)

6 Research Visits

- 21/04–05/05/2018 Moscow State University, Russia
- 06–13/06/2013 Friedrich-Schiller-Universität Jena, Germany
- 18–25/03/2012
- 12–19/02/2011
- 06–08/2010 Internship at the Technische Universität München, Germany.
Project: *Virtual Arabia* (<http://www.cie.bv.tum.de>)

7 Additional Relevant Experience

- 2021–present Member of the Council of the Faculty of Mathematics, University of Belgrade.
- 2020– Reviewer of a university textbook *Emilija Nešović: “Uvod u geometriju”* (in Serbian).
- 03/2017–present Technical Editor, Research journal *MATEMATIČKI VESNIK*
(<http://www.vesnik.math.rs>)
- 26/06–02/07/2022 Member of organizing committee of *XXI Geometrical Seminar*, Belgrade, Serbia.
(<http://poincare.matf.bg.ac.rs/~geometricalseminar/index.html>)
- 10/2015–12/2019 Secretary, Research journal *MATEMATIČKI VESNIK*
(<http://www.vesnik.math.rs>)
- 20–23/05/2018 Member of organizing committee of *XX Geometrical Seminar*, Vrnjačka Banja, Serbia.
(<http://tesla.pmf.ni.ac.rs/people/geometrijskiseminarXX/index.php>)
- 28/08–04/09/2016 Member of organizing committee of *XIX Geometrical Seminar*, Zlatibor, Serbia.
(<http://tesla.pmf.ni.ac.rs/people/geometrijskiseminarxix/index.php>)
- 25–28/05/2014 Member of organizing committee of *XVIII Geometrical Seminar*, Vrnjačka Banja, Serbia.
(<http://tesla.pmf.ni.ac.rs/people/geometrijskiseminarxviii/index.php>)
- 03–08/09/2012 Member of organizing committee of *XVII Geometrical Seminar*, Zlatibor, Serbia.
(<http://poincare.matf.bg.ac.rs/~geometricalseminar/>)
- 2008–2011 Part-time member of Mathematical Institute of the Serbian Academy of Sciences and Arts.
(<http://www.mi.sanu.ac.rs>)
- 01/2008–01/2010 Secretary of Seminar on *Geometry, Education and Visualization with Applications*.

- 19–25/04/2008 Member of organizing committee of DAAD Spring School *Geometry and Visualization*, Belgrade, Serbia.
(<http://www.matf.bg.ac.rs/~daad>)
- 01/2008–present Full member of Seminar on *Geometry, Education and Visualization with Applications*.

8 Conferences and Workshops with Contribution

- 26/06–02/07/2022 *XXI Geometrical Seminar*, Belgrade, Serbia.
Title: *Geometry of cotangent bundle of Heisenberg group*.
- 05–11/06/2022 *Geometry, Dynamics, Integrable Systems*, Zlatibor, Serbia.
Title: *Geometry of cotangent bundle of Heisenberg group*.
- 15–17/09/2021 *13th International Conference on Automated Deduction in Geometry*, online.
Title: *On automating triangle constructions in absolute and hyperbolic geometry*.
- 08/05/2019 *Symposium on Analytic Mechanics and Differential Geometry*, Belgrade, Serbia.
Title: *Four-dimensional metric Lie algebras*.
- 20–23/05/2018 *XX Geometrical Seminar*, Vrnjačka Banja, Serbia.
Title: *Geodesically equivalent metrics on homogenous spaces*.
- 16–19/05/2018 *The 14th Serbian Mathematical Congress*, Kragujevac, Serbia.
Title: *On the symmetries of the 4-dimensional nilpotent Lie groups*.
- 03–07/07/2017 *Finite dimensional integrable systems in Geometry and Mathematical physics*, Bellaterra (Barcelona), Spain.
Title: *Geodesic equivalence of metrics on Lie groups*.
- 28/08–04/09/2016 *XIX Geometrical Seminar*, Zlatibor, Serbia.
Title: *Classification of the left-invariant metrics on $\mathbb{R}H^n$* .
- 25–28/05/2014 *XVIII Geometrical Seminar*, Vrnjačka Banja, Serbia.
Title: *Geometry of 4-dimensional nilpotent Lie groups with neutral signature*.
- 10–12/06/2013 *Workshop: Lie theory in differential geometry and integrable systems*, Friedrich-Schiller-Universität Jena, Germany.
Title: *Geometry of 4-dimensional Lorenzian nilmanifolds*.
- 03–08/09/2012 *XVII Geometrical Seminar*, Zlatibor, Serbia.
Title: *Detection of arbitrary geometric shapes using discrete curvature*.
- 19/03/2012 *Mini-seminar on Differential geometry*, Friedrich-Schiller-Universität Jena, Germany.
Title: *Geodesics of the space of oriented lines of Euclidean space*.
- 14–17/02/2011 *Workshop on Geometry*, Friedrich-Schiller-Universität Jena, Germany.
Title: *Object Detection*.
- 25–29/11/2010 *Fall Seminar on Algebra*, Rapotin, Czech Republic.
Title: *Octonions and octonionic projective geometry*.
- 27/08/2010 *Seminar on Computational Mechanics and Applications*, München, Germany.
Title: *Mesh simplification*.
- 19–25/04/2008 DAAD Spring School *Geometry and Visualization*, Belgrade, Serbia.
Title: *Differential geometry using Mathematica* (practical part).
(<http://poincare.matf.bg.ac.rs/~daad/SpringSchool08/DiffGeom/index.htm>)

9 Conferences and Workshops without Contribution

- 08–21/09/2014 *Summer school: Discrete Differential Geometry*, Berlin, Germany.
 26–29/05/2011 *Conference on Mathematics in Architecture and Civil Engineering Design and Education*, Pecs, Hungary.
 20–25/09/2010 *XVI Geometrical Seminar*, Vrnjačka Banja, Serbia.

10 Papers – Published or Accepted for Publishing

1. Tijana Šukilović, Srđan Vukmirović
Riemannian and sub-Riemannian structures on a cotangent bundle of Heisenberg group, accepted in Filomat.
2. ———, Srđan Vukmirović
Geometry of cotangent bundle of Heisenberg group, *Differential Geometry and its Applications*, Vol. 88 (2023): 101997. (IF: 0.536)
3. Božidar Jovanović, ———, Srđan Vukmirović:
Integrable systems associated to the filtrations of Lie algebras, *Regular and Chaotic Dynamics*, Vol. 28, No. 1, 44–61, 2023. (IF: 1.667)
4. V. Marinković, ———, F. Marić:
On automating triangle constructions in absolute and hyperbolic geometry, *EPTCS 352, Proceedings of the 13th International Conference on Automated Deduction in Geometry*, 14–26, 2021.
5. ———:
Classification of left invariant metrics on 4-dimensional solvable Lie groups, *Theoretical and Applied Mechanics*, Vol. 47, No. 2, 181–204, 2020. DOI: 10.2298/TAM200826014S
6. Wafa Batat, ———, Srđan Vukmirović:
Ricci solitons of three-dimensional Bianchi-Cartan-Vranceanu spaces, *Journal of Geometry*, Vol. 111, No. 1, 2020. DOI: 10.1007/s00022-019-0515-x
7. Srđan Vukmirović, ———:
Geodesic completeness of the left-invariant metrics on $\mathbb{R}H^n$, *Ukrainian Mathematical Journal*, Vol. 72, No. 5, 702–711, 2020. (IF: 0.345)
8. Neda Bokan, ———, Srđan Vukmirović:
Geodesically equivalent metrics on homogenous spaces, *Czechoslovak Mathematical Journal*, Vol. 69, No. 144, 945–954, 2019. (IF: 0.364)
9. ———:
Geometric properties of neutral signature metrics on 4-dimensional nilpotent Lie groups, *Revista de la Unión Matemática Argentina*, Vol. 57, No. 1, 23–47, 2016. (IF: 0.344)
10. ———:
Isometry groups of 4-dimensional nilpotent Lie groups, *Fundamental and Applied Mathematics*, Vol. 20, No. 3, pp. 257-271, 2015. (in Russian)
11. ———:
Curvature Based Shape Detection, *Computational Geometry: Theory and Applications*, Vol. 48, No. 3, pp. 180–188, 2015. (IF: 0.589)
12. Neda Bokan, ———, Srđan Vukmirović:
Lorentz geometry of 4-dimensional nilpotent Lie groups, *Geometriae Dedicata*, Vol. 177, No. 1, pp. 83–102, 2015. (IF: 0.597)

13. Djuro Macut, Marina Bačević, Ivana Božić-Antić, ... & _____ :
Predictors of Subclinical Cardiovascular Disease in Women with Polycystic Ovary Syndrome: Interrelationship of Dyslipidemia and Arterial Blood Pressure, International journal of endocrinology, 2015. (IF: 2.376)
14. Ivan Anić, Neda Bokan, _____, Srđan Vukmirović:
A role of geometry in the frame of competencies attainment, Teaching Mathematics and Computer Science, Vol. 13, No. 1, pp. 41–55, 2015.
15. Neda Bokan, _____, Srđan Vukmirović:
On Modeling of Competencies in a Descriptive Geometry Course, Pollack Periodica, Vol. 7, No. 1, pp. 173–183, 2012.
16. Aleksandar Savić, _____, Vladimir Filipović:
Solving the Two-Dimensional Packing Problem with m -M Calculus, Yugoslav Journal of Operations Research, Vol. 21, No. 1, pp. 93–102, 2011.

11 Papers – Under Revision

V. Marinković, _____, F. Marić:

Automated triangle constructions in hyperbolic geometry

_____, Srđan Vukmirović, Neda Bokan:

On the moduli spaces of left invariant metrics on cotangent bundle of Heisenberg group,
(<http://arxiv.org/abs/2109.00447>)

12 Contributed publications

1. *ADVANTAGE OR PARADOX? The challenge for children and young people of growing up urban*, UNICEF, ISBN: 978-92-806-4977-2
(Raw data processing)

13 Textbooks

Tijana Šukilović, Srđan Vukmirović: *Geometry for Programmers* (in Serbian)

14 Other Professional Experience

03–04/2022	Working consultancy in UNICEF on assignments of combining women and men weights for MICS surveys.
03–04/2022	Creating a syllabus and teaching materials for the course <i>Education and Data Analysis for Achieving SDGs</i> .
12/2021–01/2022	Working consultancy in UNICEF on assignments of drafting a SPSS coding user manual for producing MICS-EAGLE factsheets.
03/2019–02/2020	Working consultancy in UNICEF on assignments of country level support in data processing-related areas of work.
06/2017–02/2018	Working consultancy in UNICEF on assignments of calculating various.
06–09/2016	indicators for micro-data from recent MICS and DHS Surveys.
10–12/2015	
01–11/2014	
06–11/2012	
12/2011–01/2012	

26/06–03/07/2019	Data processing consultant at MICS6 Data Processing Workshop, Beirut, Lebanon.
07–16/11/2018	Data processing consultant at MICS6 Data Processing Workshop, Santo Domingo, Dominican Republic.
22–30/11/2015	Data processing consultant at MICS Field Test, Dangriga, Belize.
17–27/06/2013	Data processing consultant at MICS Data Processing Workshop, Bangkok, Thailand.
09/2008–05/2009	Working as a consultant in Strategic Marketing Research. <i>Tasks</i> : data processing/programming, statistical analysis and data archiving.
12/2006–08/2007	Working in Strategic Marketing Research Institute as an Assistant Researcher (http://www.smmri.com)

15 Computer Skills

Operating systems:	Windows
Software & Programming:	C, C++, Mathematica, SPSS, CPro, R, IHSN toolkit, AUTOCAD, MatLab, Microsoft Office with PowerPoint, L ^A T _E X

16 Language Knowledge

Serbian: Mother tongue	Russian: Fair
English: Fluent	French: Fair
	German: Basic

17 Other Experience

Driving license, since December 2001

Belgrade, March 22, 2023