

CURRICULUM VITAE

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Born 8 August, 1963, in Belgrade, Yugoslavia

Parents father: Professor Jovan Petrić (1930-1997), mathematician
mother: Dr Zora Petrić (1932-2012), mathematician

Wife Ana Petrić, mathematician

Children daughter: Saša Petrić (1992), pianist
son: Ivan Petrić (1994), electrical engineer

Citizenship Yugoslav

Education primary school: Belgrade, 1970-1978
secondary school: Belgrade High School of Mathematics, 1978-1982
university: Belgrade, Faculty of Mathematics, 1983-1988
graduate studies: Belgrade, Faculty of Mathematics, 1989-1993
Ph.D. studies: Belgrade, faculty of Mathematics and McGill University
Montreal 1993-1997

Degrees B.A., mathematics, Faculty of Mathematics, University of Belgrade,
December 1988 (8.92 out of 10)
M.A., mathematical logic, Faculty of Mathematics, University of Belgrade, June
1993, supervisor: Professor Kosta Došen
Ph.D., mathematical logic, Faculty of Mathematics, University of Belgrade, June
1997, supervisor: Professor Kosta Došen

Theses M.A.: "Isomorphic Propositional Formulae in Categorical Proof Theory (in Serbo-
Croatian)", 1993
Ph.D.: "Equalities of Derivations in Categorical Proof Theory (in Serbo-
Croatian)", 1997

- Jobs* Teaching assistant, Faculty of Mining and Geology, Belgrade, 1989-1997
Teaching assistant, McGill University, Montreal, 1993
Assistant Professor, Faculty of Mining and Geology, Belgrade, 1998-2000
part-time Assistant Professor, Faculty of Philosophy, Belgrade, 1999-2000
Assistant Professor, Mathematical Institute, Belgrade, 2000-2008
Professor, Mathematical Institute, Belgrade, 2008-present
Associate Professor, Faculty of Mathematics, Belgrade, 2013-2019
Professor, Faculty of Mathematics, Belgrade, 2019
- Teaching* First and second course in mathematics, Numerical Analysis (Belgrade, RGF)
Calculus (Montreal, McGill)
Logic (Belgrade, Philosophy)
Categorical Logic and Type Theory, Logic, Linear Algebra,
Communications in Mathematics (Belgrade, Mathematics)
Logic (Podgorica, PMF)
- Particular lectures*
Mathematical Institute, Belgrade, 1991-present
McGill University, Montreal, 1993
Faculty of Mathematics, Belgrade, 2012
- Scholarship* TEMPUS, Amsterdam, 1992
- Grants* supported by Grant 0401A of the Science Fund of Serbia, 1991-1999
supported by Grant 1630 of the Science Fund of Serbia, 2000-2005
supported by Grants 144013 and 144029 of the Science Fund of Serbia, 2006-2010
supported by Grant 174026 of the Science Fund of Serbia, 2011-2021
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- Invited talks* 5th Panhellenic Logic Symposium, Athens, 2005
Cross Perspectives on Proof Systems and their Significance, Paris, 2012
Conference on Hypothetical Reasoning, Tübingen, 2014
14th Serbian Mathematical Congress, Kragujevac, 2018.

PUBLICATIONS

Papers

Modal functional completeness (co-author: K. Došen), in *Proof Theory of Modal Logic*, H. Wansing ed., Kluwer Academic Publishers, Dordrecht (1996), pp. 167-211.

Isomorphic Objects in symmetric monoidal closed categories (co-author: K. Došen), *Mathematical Structures in Computer Science* vol. 7 (1997), pp. 639-662.

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On permuting cut with contraction (co-authors: M. Borisavljević and K. Došen), *Mathematical Structures in Computer Science* vol. 10 (2000), pp. 99-136, (arXiv:math/9911065).

The maximality of the typed lambda calculus and of cartesian closed categories (co-author: K. Došen), *Publications de l'Institut Mathématique*, tome 68 (82) (2000), pp. 1-19, (arXiv:math/9911073).

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Cut elimination in a category-like sequent system, in: A. Krapež, (ed.) *A Tribute to S.B. Prešić* (2001), pp. 73-78, Mathematical Institute, Belgrade.

Пермутовање сечења и контракције (co-authors: M. Borisavljević and K. Došen), *10. Конгрес математичара Југославије*, Београд 2000, Резимеи, стр. 13.

The typed Bohm theorem (co-author: K. Došen), in: J.J. Levy et al. (eds.), *Proceedings of the Satellite Workshops of the 28th ICALP*, Electronic Notes in Theoretical Computer Science 50(2001), no 2, pp. 119-131 (<http://www.elsevier.nl/locate/entcs/volume50.html>)

Coherent bicartesian and sesquicartesian categories (co-author: K. Došen), in: R. Kahle et al. (eds.), *Proof Theory in Computer Science*, Lecture Notes in Computer Science 2183 (2001), pp. 78-92 (arXiv:math/0006091).

Bicartesian coherence (co-author: K. Došen), *Studia Logica* vol. 71 (2002), pp. 331-353, (arXiv:math/0006052).

Kauffman monoids (co-authors: M. Borisavljević and K. Došen), *Journal of Knot Theory and its Ramifications* vol. 11 (2002), pp. 127-143, (arXiv:math/0008187).

Coherence in substructural categories, *Studia Logica* vol. 70 (2002), pp. 271-296, (arXiv:math/0006061).

Generality of proofs and its Brauerian representation (co-author: K. Došen), *The Journal of Symbolic Logic* vol. 68 (2003), pp. 740-750, (arXiv:math/0211090).

Self-adjunctions and matrices (co-author: K. Došen), *Journal of Pure and Applied Algebra* 184 (2003), pp. 7-39, (arXiv:math/0111058).

G-dinaturality, *Annals of Pure and Applied Logic* 122 (2003), pp. 131-173, (arXiv:math/0012019).

A Brauerian representation of split preorders (co-author: K. Došen), *Mathematical Logic Quarterly* 49 (2003), pp. 579-586, (arXiv:math/0211277).

The geometry of self-adjunction (co-author: K. Došen), *Publications de l' Institut Mathematique*, 73 (87) (2003), pp. 1-29 (arXiv:math/GT.0111058)

Negation and Involutive Adjunction (co-author: K. Došen), *We Will Show Them*, Sergei N. Artëmov, Howard Barringer, Artur S. d'Avila Garcez, Luís C. Lamb, John Woods_(eds.), Essays in Honour of Dov Gabbay on his 60th Birthday, vol. 1 (2005), pp. 577-585, College Publications, London, (arXiv:math/0506302).

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Coherence of Proof-Net Categories (co-author: K. Došen), *Publications de l' Institut Mathematique*, tome 78 (92) (2005), pp. 1-33, (arXiv:math/0503301).

Coherence for Star-Autonomous Categories (co-author: K. Došen), *Annals of Pure and Applied Logic* 141 (2006), pp. 225-242, (arXiv:math/0503306).

Associativity as Commutativity (co-author: K. Došen), *The Journal of Symbolic Logic* 71, 1 (2006), pp. 217-226, (arXiv:math/0506600).

Symmetric self-adjunctions: A justification of Brauer's representation of Brauer's algebras (co-author: K. Došen), *Proceedings of CGRT 2005*, pp. 177-188, (arXiv:math/0512102).

Medial Commutativity (co-author: K. Došen), *Annals of Pure and Applied Logic* 146 (2007), pp. 237-255, (arXiv:math/0610934).

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Coherence in Linear Predicate Logic (co-author: K. Došen), *Annals of Pure and Applied Logic*, 158 (2009), pp. 125-153 (arXiv:0709.1421).

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Coherence for Modalities (co-author: K. Došen), *Journal of Pure and Applied Algebra*, 215 (2011), pp. 1606-1628 (arXiv:0809.2494).

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Isomorphic Formulae in Classical Propositional Logic (co-author: K. Došen), *Mathematical Logic Quarterly*, 58 (2012), pp. 5-17 (arXiv:0912.1271).

Shuffles and Concatenations in Constructing of Graphs (co-author: K. Došen), *Mathematical Structures in Computer Science*, 22, Special Issue 06 (2012), pp 904-930 (arXiv:1002.3577).

Symmetric Self-Adjunctions and Matrices (co-author: K. Došen), *Algebra Colloquium*, 19, No. spec01 (2012), pp. 1051-1082 (arXiv:math/0510039).

Ordinals in Frobenius Monads (co-author: K. Došen), *Journal of Pure and Applied Algebra*, 217 (2013), pp. 763-778 (arXiv:0809.2495).

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Graphs of Plural Cuts (co-author: K. Došen), *Theoretical Computer Science*, 484 (2013), pp. 41-55 (arXiv:1104.4064).

On Stretching the Interval Simplex-Permutohedron, *Journal of Algebraic Combinatorics*, 39 (2014), pp. 99-125 (arXiv:1106.3250).

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270 Minutes on Categorical Proof Theory, *Logic in Computer Science*, Silvia Ghilezan (ed.), Zbornik radova 18 (26), Matematički institut SANU (2015), pp. 7-35.

A Planarity Criterion for Graphs (co-author: K. Došen), *SIAM Journal on Discrete Mathematics*, 29(4) (2015), pp. 2160–2165 (arXiv:1203.0996).

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A note on semisymmetry (co-author: Aleksandar Krapež), *Quasigroups and Related Systems*, 25 (2017), pp. 269-278 (arXiv:1507.02149).

The n-fold reduced bar construction (co-author: S.Lj. Čukić), *Journal of Homotopy and Related Structures*, 13 (2018), pp. 503-543 ([arXiv:1309.6209](https://arxiv.org/abs/1309.6209)).

Spheres as Frobenius objects (co-authors: Dj. Bararalić and S. Telemeković), *Theory and Applications of Categories*, 33 (2018), pp. 691-726 (arXiv:1609.03979).

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A faithful 2TQFT (co-authors: S. Gajović, S. Telemeković Onić), *Homology, Homotopy and Applications*, 22 (2020), pp. 391-399 (arXiv:1711.06044).

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Coherence for closed categories with biproducts, (co-author: M. Zekić), *Journal of Pure and Applied Algebra*, 225 (2021) 106533 (arXiv: 2001.09736).

A diagrammatic calculus for categorical quantum protocols, (co-authors: D. Đorđević, M. Zekić), *Quantum Studies: Mathematics and Foundations*, <https://link.springer.com/article/10.1007/s40509-024-00341-8>, DOI: 10.1007/s40509-024-00341-8 (2024)

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A calculus for S3-diagrams of manifolds with boundary, (co-authors: B. Femić, V. Grujić, J. Obradović).

Coherence for Logicians (co-author M. Zekić)

Restricted (2+1)-TQFTs supported by thickened and solid tori (co-authors: D. Đoršević, D. Kosanović, J. Nikolić)

Books

Proof-Theoretical Coherence (co-author: K. Došen), KCL Publications, London (2004)
<http://www.mi.sanu.ac.rs/~kosta/coh.pdf>

Proof-Net Categories (co-author: K. Došen), Polimetrica, Monza, Italy (2007)
<http://www.mi.sanu.ac.rs/~kosta/pn.pdf>

Graphs for Juncture (co-author: K. Došen), preprint, August 2012, viii+128 pp.
<http://www.mi.sanu.ac.rs/~kosta/jun.pdf>