

VESNA CELAKOSKA JORDANOVA

CURRICULIM VITAE

BASIC INFORMATION

- **Name:** Vesna Celakoska-Jordanova
- **Date of birth:** January 14, 1974, Skopje, Republic of Macedonia
- **Marital status:** Married, one child
- **Present position:** Associate Professor
- **Major discipline:** Algebra
- **Research interests:** Universal Algebra, Varieties of Groupoids, Varieties of n -ary groupoids
- **Address:** Department of Mathematics, Faculty of Natural Sciences and Mathematics, Arhimedova 3, 1000 Skopje, Macedonia
- **E-mail:** vesnacj@pmf.ukim.mk, celakoska@gmail.com
- **Office phone:** ++389 2 3249 661

ACADEMIC DEGREES

- October 2009, Ph.D, Ss. Cyril and Methodius University, Skopje, Macedonia
 - Thesis: Free and injective objects in some classes of n -groupoids
- October 2005, M.Sc, Ss. Cyril and Methodius University, Skopje, Macedonia
 - Thesis: Canonical objects in varieties of groupoids
- February 1997, B.Sc, Ss. Cyril and Methodius University, Skopje, Macedonia
- Honored student, Faculty of Natural Sciences and Mathematics, University of Skopje, 1996

ACADEMIC AND PROFESSIONAL POSITIONS

- (2015-): Associate Professor at Faculty of Natural Sciences and Mathematics, Institute of Mathematics, Skopje
- (2010-2015): Assistant Professor at Faculty of Natural Sciences and Mathematics, Institute of Mathematics, Skopje
- (2006-2010): Teaching and Research Assistant of Mathematics at Faculty of Natural Sciences and Mathematics, Institute of Mathematics, Skopje
- (1997-2005): Teaching Assistant of Mathematics at Faculty of Natural Sciences and Mathematics, Institute of Mathematics, Skopje

UNDERGRADUATE COURSES

- Sets and logic
- Vector spaces
- Trigonometry
- Cryptography

POSTGRADUATE COURSES

- Selected topics in algebra
- Algebraic n-ary structures
- Universal algebra and applications
- Vector valued structures

MEMBERSHIPS IN PROFESIONAL ORGANIZATIONS

- Member of Society of Mathematicians of Republic of Macedonia

REVIWER

- Mathematical Reviews (since 2011)

TALKS ON CONFERENCES

- V Congress of Mthematicians of Macedonia, Ohrid, R. Macedonia, September 23-27, 2014
 - *Free power-associative ternary groupoids* (V.Celakoska-Jordanova, V. Miovska)
- International Scientific Conference, FMNS-2013, Blagoevgrad, Bulgaria
 - *Free ternary semicommutative groupoids*
- The 83rd Workshop on General Algebra & the 27th Conference of Young Algebraists, Novi Sad 2012
 - *Monoids of powers in varieties of f-idempotent groupoids* (V.Celakoska-Jordanova)
- Logic Seminar (Belgrade, SANU), January 2012
 - *Canonical objects in some varieties of groupoids*
- Fourth International Conference FMNS-2011, Blagoevgrad, Bulgaria, 2011
 - *On free medial semigroups* (V.Celakoska-Jordanova)
- Mathematical Conference 2010-Dedicated to Professor Gorgi Cupona, Ohrid, Macedonia, 2010
 - *Canonical Left and/or Right Commutative Semigroups* (V. Celakoska-Jordanova)

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- Tempus Project SEE Doctoral Studies in Mathematical Sciences, Ohrid, Macedonia 2009
 - *Canonical Objects in Classes of (n, V) -groupoids* (V. Celakoska-Jordanova)
- IV Congress of Macedonian Mathematicians, Struga, Macedonia 2008
 - *Free groupoids defined by the identity $xf(x)=f(f(x))$*
- 12th Serbian Mathematical Congress, Novi Sad, 2008
 - *Free power-commutative groupoids* (V. Celakoska-Jordanova)
- Algorithmic Complexity and Universal Algebra 2007, Szeged, Hungary
 - *Free objects in the class of power left and right idempotent groupoids*(V.Celakoska-Jordanova) [ACUA Talks](#)
- International Conference FMNS-2007, Blagoevgrad, Bulgaria, 2007
 - *Free objects in the variety of groupoids defined by the identity $xx^{(m)} = x^{(m+1)}$* (V.Celakoska-Jordanova)
- Novi Sad Algebraic Conference 2005, NSAC'05
 - *Canonical biassociative groupoids* (B.Janeva,S.Ilic,V.Celakoska-Jordanova) [NSAC'05 Talks](#)
- Third Macedonian Congress of Mathematics, Struga 2005
 - *Cyclic subgroupoids of an absolutely free groupoid*
- Third Croatian Congress of Mathematics, Split, 2004
 - *Free groupoids with partial commutivity* [Split Talks](#)
- Second Macedonian Congress of Mathematics, Ohrid 2000
 - *On two varieties of groupoids of rank 1* (G.Cupona,V.Celakoska-Jordanova)

VISITOR

- January 2012, Mathematical Institute of Serbian Academy of Sciences, Belgrade, Serbia (1 week)

PROJECTS

- *Algebraic and combinatorial problems with applications*, (2014-2016), project manager Acad. Donco Dimovski, Supported by Macedonian Academy of Sciences and Arts (joint project with Serbian Academy of Sciences and Arts).
- *Algebraic, topological and combinatorial problems*, (2014-2016), project manager Acad. Donco Dimovski, Supported by Macedonian Academy of Sciences and Arts.
- *Algebraic, topological and combinatorial problems*, (2011-2013), project manager Acad. Donco Dimovski, Supported by Macedonian Academy of Sciences and Arts.

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- *Development of mathematical sciences in Republic of Macedonia, 1946-2010* (2008-2010, project manager Acad. Blagoj Popov; Supported by Macedonian Academy of Sciences and Arts)
- *Algebraic structures* (2006-2008, project manager Acad. Gorgi Cupona; Supported by Macedonian Academy of Sciences and Arts)
- *Problems in differential geometry and topology and their application* (2006-2009, project manager Prof. dr. Kostadin Trencevski)
- *Free algebraic structures* (2000-2002, project manager Acad. Gorgi Cupona; Supported by Macedonian Academy of Sciences and Arts)

INTENSIVE COURSES AND WORKSHOPS

- *Mathematical approaches in learning processes*- DAAD - Center for Excellence and Applications of Mathematics, Ohrid, 2010
- Tempus Project SEE Doctoral Studies in Mathematical Sciences, Ohrid, 2009
- *Algebraic structures and their application in coding theory and cryptography* - DAAD - Center for Excellence and Applications of Mathematics, Ohrid 2009
- *Creative teaching and learning project*, Ohrid, 2006 (USAID, National program for development of education)

THESES SUPERVISED

1. Klimentina Klimoska, Finitary associative operations, 2012, M.Sc.

EDITOR

- Editor of the popular mathematical publication "Sigma", Skopje from 1.06.2005 until 1.09.2008
- Editor of the mathematical portal POIM, Department of Mathematics, Faculty of Natural Sciences and Mathematics, Ss. Cyril and Methodius University, Skopje

SCIENTIFIC PUBLICATIONS

- **V. Celakoska-Jordanova**, *Canonical bilaterally commutative groupoids*, (accepted December 2014)
- **V. Celakoska-Jordanova**, *Free power-commutative groupoids*, *Mathematica Slovaca*. Volume 65, Issue 1, Pages 23–32, ISSN (Online) 1337-2211, ISSN (Print) 0139-9918, DOI: 10.1515/ms-2015-0003, March 2015 (impact factor for 2013/14, 0.451)

VESNA CELAKOSKA JORDANOVA CURRICULUM VITAE

- **V. Celakoska-Jordanova**, *Monoids of powers in varieties of f-idempotent froupoids*, International Journal of Algebra, Vol. 7, (2013), no. 8, 355 - 362
- **V. Celakoska-Jordanova**, *Free ternary semicommutative groupoids*, Proc. of the International Scientific Conference, FMNS-2013, Blagoevgrad, Bulgaria, Vol.1 (Math. & Inf.) (2013) 33-39
- **V. Celakoska-Jordanova**, *Free Objects in the Variety of Groupoids Defined by the Identity $xf(x) \approx f(f(x))$* , International Journal of Algebra, Vol. 6, (2012), no. 6, 281 - 289
- **V. Celakoska-Jordanova**, *On free medial semigroups*, Proc. of the International Scientific Conference, FMNS-2011, Blagoevgrad, Bulgaria, Vol. 1, (2011) 21-26
- **V. Celakoska-Jordanova**, *Ternary groupoid powers*, Matematički Bilten, 33(LIX) (2009), 15-19, published 2010
- **V. Celakoska-Jordanova**, *Canonical objects in classes of (n, V) -groupoids*, Mathematica Balcanica, New Series Vol.24, (2010) Fasc.3-4, 341-349
- **V. Celakoska-Jordanova**, B. Janeva, *Free left commutative groupoids*, Anual Review of the European University, Republic of Macedonia, (2009) 687 - 694, published 2010
- **V. Celakoska-Jordanova**, *Free groupoids in the class of power left and right idempotent groupoids*, International Journal of Algebra, Vol. 2, (2008), no. 10, 451 - 461
- **V. Celakoska-Jordanova**, *On quaternary associative operations*, Mathematica Moravica No. 11, 17 - 25, 2007
- B. Janeva, S. Ilic, **V. Celakoska-Jordanova**, *Canonical biassociative groupoids*, Publications de l'Institute Mathematique, SANU, Nouvelle serie 81(95), (2007) 103-109
- **V. Celakoska-Jordanova**, *Free objects in the variety of groupoids defined by the identity $xx^{(m)} = x^{(m+1)}$* , Proc. of the International Scientific Conference, FMNS-2007, Blagoevgrad, Bulgaria, (2007) 81-87
- **V. Celakoska-Jordanova**, *Cyclic subgroupoids of an absolutely free groupoid*, Proc. III Congress, Struga 2005, (2007) 217-225
- **V. Celakoska-Jordanova**, *Free groupoids with $x^2x^2 = x^3x^3$* , Mathematica Macedonica Vol.2, (2004) 9-17
- B. Janeva, V. Miovska, **V. Celakoska-Jordanova**, *On a class of n-groupoids*, Proc. II Congress, Ohrid 2000, (2003) 25-30
- G. Cupona, **V. Celakoska-Jordanova**, *On a Variety of Groupoids of Rank 1*, Proc. II Congress, Ohrid 2000 (2003) 17-23

TEXTBOOKS

- Valenitna Miovska, Vesna Celakoska-Jordanova, **Algebraic n-ary structures**, Faculty of Natural Sciences and Mathematics, Skopje, 2014 (in Macedonian)

VESNA CELAKOSKA JORDANOVA CURRICULUM VITAE

- Jordanka Mitevска, **Vesna Celakoska-Jordanova**, Gorgi Markoski, *Matematika*, Fakultet za zemjodelski nauki i hrana, Skopje, 2006

POPULAR PUBLICATIONS

2015

- **В.Целакоска-Јорданова**, [Прочитајте математички трилер!](http://poim-pmf.weebly.com/matematicki-triler.html), <http://poim-pmf.weebly.com/matematicki-triler.html>
- **В.Целакоска-Јорданова**, [Како се читаат големите броеви](http://poim-pmf.weebly.com/kako-se-citaat-golemite-broevi.html), ПОИМ, Институт за математика ПМФ Скопје, 1 јануари 2015, <http://poim-pmf.weebly.com/kako-se-citaat-golemite-broevi.html>

2010

- **В.Целакоска-Јорданова**, *Како се читаат големите броеви*, Нумерус XXXV-4 2009/10, 1-4

2007

- В.Димитрова, **В.Целакоска-Јорданова**, *Крипто-системи*, Сигма 76, 4 (2006/2007)
- **В.Целакоска-Јорданова**, *Аритметика на часовникот*, Нумерус бр.4, 2006/2007

2006

- **В.Целакоска-Јорданова**, Ј.Маркоска, З. Цветковски, Л.Стојановска, *Подготвителни задачи за регионални и државни натпревари*, Нумерус бр.2, 2006/2007
- **В.Целакоска-Јорданова**, В.Димитрова, *Ортогонални латински квадрати*, Сигма 73, 1 (2006/2007)
- В.Димитрова, **В.Целакоска-Јорданова**, *Што е криптографија?*, Сигма 72, 4 (2005/2006)
- **В.Целакоска-Јорданова**, В.Димитрова, *Латински правоаголници и латински квадрати*, Сигма 71, 3 (2005/2006)

2005

- **В.Целакоска-Јорданова**, *Теорема за идентични полиноми и нејзина примена*, Сигма 68, 4 (2004/2005)

2003

- **В.Целакоска-Јорданова**, *Неколку задачи за златен пресек*, Сигма 59, 3 (2002/2003)

2001

- **В.Целакоска-Јорданова**, *Последователни природни броеви*, Сигма 54, 2 (2001/2002)