

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 at Institute of Mathematics,
Faculty of Natural Sciences and Mathematics,
Ss. Cyril and Methodius University of Skopje, R. Macedonia
- **Highest degree earned:** PhD
- **Major discipline:** Algebra
- **Research interests:** Universal Algebra, Free objects in varieties of n -ary groupoids,
Vector valued hyperstructures
- **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 (office room M-252)

ACADEMIC DEGREES

- October 2009, PhD in Mathematics, Ss. Cyril and Methodius University, Skopje
 - PhD thesis title: Free and injective objects in some classes of n -groupoids/
Slobodni i injektivni objekti vo neкои mnoguobrazija grupoidi; supervisor: d-r
Biljana Janeva
- October 2005, MSc in Mathematics, Ss. Cyril and Methodius University, Skopje
 - MSc thesis title: Canonical objects in varieties of groupoids / Kanonichni
objekti vo mnoguobrazija grupoidi; supervisor: d-r Biljana Janeva
- February 1997, BSc in Mathematics, Ss. Cyril and Methodius University, Skopje
 - BSc thesis title: On one non-desarguesian plane of order 9 / Za edna
nedezargova ramnina od red 9; supervisor: d-r Aleksandar Samardžiski

AWARDS

- May 1996, Honored student, Institute of Mathematics, Faculty of Natural Sciences and
Mathematics, Ss. Cyril and Methodius University, Skopje
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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

MEMBERSHIPS IN PROFESIONAL ORGANIZATIONS

- Member of the Union of Mathematicians of Republic of Macedonia

UNDERGRADUATE COURSES

- Sets and logic, Algebraic structures, Vector spaces, Trigonometry, Cryptography, Discrete Structures 1, Discrete Structures 2 and Calculus (for the Faculty of forestry)
- Supervisor of 16 BSc thesis

POSTGRADUATE COURSES

- Selected topics in algebra, Algebraic n-ary structures, Universal algebra and applications, Vector valued structures, Semigroup theory
- Supervisor of 1 (one) MSc thesis (and 3 ongoing students)
 1. Klimentina Klimoska, *Finitary associative operations*, 2012, M.Sc.

REVIWER

- Mathematical Reviews (since 2011)

VISITOR

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

EDITOR

- Editor of the popular mathematical publication "Sigma", Skopje from 1.06.2005 until 1.09.2008

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.
- *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)

ATTENDED COURSES AND WORKSHOPS

- *Mathematical approaches in learning processes*- DAAD - Center for Excellence and Applications of Mathematics, September 2010, Ohrid
- Tempus Project SEE Doctoral Studies in Mathematical Sciences, September, 2009 Ohrid
- *Algebraic structures and their application in coding theory and cryptography* - DAAD - Center for Excellence and Applications of Mathematics, September 2009, Ohrid
- *Creative teaching and learning project*, Ohrid, September, 2006 (USAID, National program for development of education)
- *Creative teaching and learning project*, Ohrid, January, 2007 (USAID, National program for development of education)

ORGANIZATION OF EVENTS

- First Seminar "Mathematics and Applications", December 14, 2016, organized by the Institute of Mathematics, Faculty of Natural Sciences and Mathematics, Skopje
<http://im-pmf.weebly.com/seminar-matematika-i-primeni.html>
- VI Congress of Mathematicians of Macedonia, June 15-18, 2016, Ohrid, Macedonia (member of the organizing and program committee)

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- V Congress of Mathematicians of Macedonia, September 23-27, 2014, Ohrid, Macedonia (member of the organizing committee)
- Mathematical Conference 2010 - Dedicated to Professor Gorgi Čupona, September 8-10, 2010, Ohrid, Macedonia
- Mathematical Conference: 85 years of professor Blagoj Popov life, September 8-11, 2008, Ohrid, Macedonia

PRESENTED WORK ON CONFERENCES

- VI Congress of Mathematicians of Macedonia, June 15-18, 2016, Ohrid, Macedonia
 - *Vector Valued Huperstructures* (V. Miovska, V. Celakoska-Jordanova)
 - Mathematical terminology: on the names of fractions in Macedonian language) (V. Celakoska-Jordanova, E. Celakoska)
 - The names of foreign mathematicians in Macedonian (V. Celakoska-Jordanova, E. Celakoska)
- V Congress of Mathematicians of Macedonia, September 23-27, 2014, Ohrid, Macedonia
 - *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*
- 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*
- Mathematical Conference 2010 - Dedicated to Professor Gorgi Čupona, September 8-10, 2010, Ohrid, Macedonia
 - *Canonical Left and/or Right Commutative Semigroups*
- Tempus Project SEE Doctoral Studies in Mathematical Sciences, Ohrid, Macedonia 2009
 - *Canonical Objects in Classes of (n, V) -groupoids*
- IV Congress of Macedonian Mathematicians, Struga, Macedonia 2008
 - *Free groupoids defined by the identity $xf(x)=f(f(x))$*
- Mathematical Conference: 85 Years of Professor Blagoj Popov Life, September 8-11, 2008, Ohrid, Macedonia
 - *Monoids of powers in some varieties of groupoids*
- 12th Serbian Mathematical Congress, Novi Sad, 2008
 - *Free power-commutative groupoids*

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- 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 commutativity* [Split Talks](#)
- Second Macedonian Congress of Mathematics, Ohrid 2000
 - *On a variety of groupoids of rank 1* (G.Čupona,V.Celakoska-Jordanova)

SCIENTIFIC PUBLICATIONS

- **V. Celakoska-Jordanova**, V. Miovska, *Free power-associative n -ary groupoids* (submitted)
- E. Celakoska, E. Hadzieva, **V. Celakoska-Jordanova**, *On Orthogonal Transformations of Complex Constrained Vectors*, (submitted)
- **V. Celakoska-Jordanova**, E. Celakoska, *Canonical commutative ternary groupoids*, International Journal of Algebra, Vol. 11, 2017, no. 1, 35-42
- V. Miovska, **V. Celakoska-Jordanova**, B. Davvaz, *Vector Valued Hyperstructures* Kragujevac Journal of Mathematics (Accepted)
- **V. Celakoska-Jordanova**, *Canonical bilaterally commutative groupoids*, An. Ştiinţ. Univ. Al. I. Cuza Iaşi Mat. (N.S.), Tomul LXII, 2016, f. 2, vol. 2, 623–631 (accepted December 2014), (IF for 2013: 0.108)
- **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 (accepted August, 2012) (impact factor for 2012, 0.394)
- **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

VESNA CELAKOSKA JORDANOVA CURRICULUM VITAE

- **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*, Annual 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. Čupona, **V. Celakoska-Jordanova**, *On a Variety of Groupoids of Rank 1*, Proc. II Congress, Ohrid 2000 (2003) 17-23

POPULAR ARTICLES

- **V. Celakoska-Jordanova**, E. Celakoska, *Mathematical terminology: on the names of fractions in Macedonian language*, Mat. Bilten, Vol. 40 (LXVI) No. 2, 35–44
- **V. Celakoska-Jordanova**, E. Celakoska, *The names of foreign mathematicians in Macedonian*, Mat. Bilten, Vol. 40 (LXVI) No. 2, 45–56

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

BOOKS

- N. Celakoski, **V. Celakoska-Jordanova**, E. Celakoska, *English-Macedonian Dictionary of Mathematical Terms*, Publisher: Macedonian Academy of Sciences and Arts, 2015

POPULAR PUBLICATIONS

2017

- В. Целакоска-Јорданова, *Паркетирање со петаголници*, Портал ПОИМ на Институтот за математика, ПМФ, Скопје, 20 февруари 2017, <http://poim-pmf.weebly.com/parketiranje-so-petagolnici.html>
- **В. Целакоска-Јорданова**, Како некогаш множиле Кинезите (или множење со стапчиња), Математика +, <http://matematika-plus.weebly.com/kako-nekogas-mnozele-kinezite.html> (20.01.2017)
- **В. Целакоска-Јорданова**, И. Стојковска, *Како се проценува бројот на луѓе на јавни собири*, Портал ПОИМ на Институтот за математика, ПМФ, Скопје, 18 јануари 2017, <http://poim-pmf.weebly.com/kako-se-procenuva-brojot-na-lugje-na-javni-sobiri.html>
- **В. Целакоска-Јорданова**, Спирала од прости броеви, Портал ПОИМ на Институтот за математика, ПМФ, Скопје, 5 јануари 2017 <http://poim-pmf.weebly.com/spirala-od-prosti-broevi.html>

2016

- **В. Целакоска-Јорданова**, Е. Целакоска, *Имиња на француски математичари на македонски јазик*, Портал ПОИМ на Институтот за математика, ПМФ, Скопје, 23 декември 2016, <http://poim-pmf.weebly.com/iminja-na-francuski-matematicari.html>
- **В. Целакоска-Јорданова**, Е. Целакоска, *Имиња на англиски математичари на македонски јазик*, Портал ПОИМ на Институтот за математика, ПМФ, Скопје, 18 ноември 2016, <http://poim-pmf.weebly.com/iminja-na-angliski-matematicari.html>
- **В. Целакоска-Јорданова**, Множење со мрежа II (множење на двоцифрен со трицифрен број), Математика + <http://matematika-plus.weebly.com/mnozenje-so-mreza-dvocifren-so-tricifren-broj.html> (24.11.2016)
- **В. Целакоска-Јорданова**, Множење со мрежа I (множење на два двоцифрени броја), Математика + <http://matematika-plus.weebly.com/mnozenje-so-mreza-dvocifren-so-dvocifren-broj.html> (10.11.2016)
- **В. Целакоска-Јорданова**, Е. Целакоска, *Именувањето на дропките во македонскиот јазик*, Портал ПОИМ на Институтот за математика, ПМФ, Скопје, 28 октомври 2016, <http://poim-pmf.weebly.com/imenuvanjeto-na-dropkite-vo-makedonskiot-jazik.html>
- **В. Целакоска-Јорданова**, Гордана Николовска, *43. Приматијада 2016 (28.04.2016 - 01.05.2016) Албена, Р. Бугарија*, Портал ПОИМ на Институтот за математика, ПМФ, Скопје, 10 мај 2015, <http://poim-pmf.weebly.com/primatijada-2016.html>

VESNA CELAKOSKA JORDANOVA CURRICULUM VITAE

- **В. Целакоска-Јорданова, И. Героска, Г. Николовска, 42. Приматијада 2015 (28.04.2015 - 03.05.2015) на езерото Балатон во Шиофок, Р. Унгарија, Портал ПОИМ на Институтот за математика, ПМФ, Скопје, 10 мај 2015, <http://poim-pmf.weebly.com/primatijada-2015.html>**

2015

- **В.Целакоска-Јорданова, Прочитајте математички трилер, Портал ПОИМ на Институтот за математика, ПМФ, Скопје, 9 јануари 2015, <http://poim-pmf.weebly.com/matematicki-triler.html>**
- **В.Целакоска-Јорданова, Како се читаат големите броеви, Портал ПОИМ на Институтот 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, Кристо-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)