

Curriculum Vitae

1. Personal Information

Surname, First name	Shabani, Armend
Address	Ismail Dumoshi, 34, Prishtinë, 10000, Republic of Kosova
Telephone(s)	+386 49 277 558
E-mail(s)	armend.shabani@uni-pr.edu
Nationality	Kosovar Albanian
Date of Birth	23.07.1978
Gender	Male
Marital Status	Married
Availability	29 January 2019

2. Education

2009-2016	PhD in Mathematics
2005-2007	Master Degree in Mathematic
1997-2003	Diploma in Mathematics

3. Work Experience

01.10.2017 - present	University of Pristina, Faculty of Mathematical Natural Sciences, Department of Mathematics Professor Assistant Courses: Discrete Mathematics, Linear Algebra I, Linear Algebra with Analytic Geometry
10.03.2005 – 31.09.2017	University of Pristina, Faculty of Mathematical Natural Sciences, Department of Mathematics Teaching Assistant Courses: Mathematical Analysis I, II; III, Algebra I, II, Real Analysis, Mathematics for students of Geography, Mathematical Methods in Ecology, Mathematics for Chemistry, Functional Analysis, Theory of Numbers, Combinatorics, Abstract Algebra for Computer Science Lecturer Courses: Theory of Probability, Theory of Numbers

20.09.2015 - Present Specialized Mathematical Gymnasium
Lecturer:

Courses: Combinatorics, Computer Applications

4. Scientific Works

4.1. Research Interests

Enumerative combinatorics, Special functions

4.2. Research papers in refereed Journals

- 22 N. Cakic, T. Mansour and A. Sh. Shabani, *Circular Bargraphs*, Applied Mathematics and Computation 347 (2019) 803--807.
- 21 Toufik Mansour, Armend Sh. Shabani, *Bargraphs in bargraphs*, Turkish Journal of Mathematics, 42, (2018), 2763-2773, DOI:10.3906/mat-1803-113
- 20 Toufik Mansour, Armend Sh. Shabani, Mark Shattuck *Counting corners in compositions and set partitions presented as bargraphs*, Journal of Difference Equations and Applications, 24:6, 992-1015, DOI: 10.1080/10236198.2018.1444760.
- 19 Armend Sh. Shabani, Rexhep Gjergji, *Statistics for 3-letter patterns with repetitions in compositions*, Discrete Math. Theor. Comput. Sci. 17 (2016) 147–166.
- 18 Toufik Mansour, Armend Sh. Shabani, *Counting occurrences of a pattern of length three with at most two distinct letters in a k-ary word*, Journal of Automata, Languages and Combinatorics, Vol. 21, Issue 3 (2016) 183–201.
- 17 Shyam L. Kalla, Valmir Krasniqi, Toufik Mansour, Armend Sh. Shabani, *Logarithmically completely monotonic of (q,k) -Gamma function*, Journal of Advanced Mathematics and Applications, to appear
- 16 Valmir Krasniqi, Armend Sh. Shabani, *On a conjecture of a logarithmically completely monotonic function*, Australian Journal of Mathematical Analysis and Applications, Volume 11, Issue 1, Article 5, pp. 1-5, 2014
- 15 Toufik Mansour and Armend Sh. Shabani, *Generalization of some inequalities for the (q_1, \dots, q_s) -Gamma function*, Le Matematiche LXVII (2012) 119--130.
- 14 Valmir Krasniqi, Naim Braha, Armend Sh. Shabani, *Local Estimates for $L_n^{\{\alpha, \beta, M, N\}}(x; -1)$, $L_n^{\{\alpha, \beta, M, N\}}(x; 1)$ polynomials*, International Journal of Applied Mathematics, Academic Publications, Volume 25 No. 3 2012, 443-450.
- 13 Valmir Krasniqi, Toufik Mansour and Armend Sh. Shabani, *On some Feng Qi type q-integral inequalities*, Acta Universitatis Apulensis, No. 27/2011, pp. 109-114.
- 12 Valmir Krasniqi, Naim L. Braha, Armend Sh. Shabani, *Local Estimates for Koornwinder's Jacobi-Type polynomials*, Applications and Applied Mathematics, Vol. 6, Issue 11, 1902-1910.
- 11 Valmir Krasniqi, Toufik Mansour and Armend Sh. Shabani, *Some Inequalities for q-polygamma function and ζ_q Riemann Zeta Functions*, Annales Mathematicae et Informaticae, **37** (2010) 95-100

- 10 Valmir Krasniqi, Toufik Mansour, Armend Sh. Shabani, *Some Monotonicity Properties and Inequalities for Gamma and Zeta_q - Functions* , Mathematical Communications, **15:2** (2010) 365-376.
- 9 Armend Sh. Shabani, *Notes on upper and lower bounds of two inequalities for the Gamma function*, Hacettepe Journal of Mathematics and Statistics, 39(1) 2010, 11-15.
- 8 Valmir Krasniqi, Armend Sh. Shabani, *Some Convexity Properties and Inequalities for the Gamma_p function*, Applied Mathematics E-Notes, 10(2010), 27-35.
- 7 Valmir Krasniqi, Armend Sh. Shabani, *On some Feng Qi type h - integral inequalities*, Int. J. Open Problems Compt. Math., Vol 2, No 4, December, 2009.
- 6 T. Mansour, A. Sh. Shabani, *Some Inequalities for the q-digamma function*, J. Ineq. Pure Appl. Math., **10**(1) (2009) Art.12.
- 5 Armend Sh. Shabani, *Generalization of some inequalities for the gamma function*, Mathematical Communications, **13** (2008), 271-275.
- 4 Armend Sh. Shabani, *Generalization of some inequalities for the q-gamma function*, Annales Mathematicae et Informaticae, **35** (2008) pp. 129-134.
- 3 Armend Sh. Shabani Armend Sh. Shabani, *The Proof of Two Conjectures related to Pell's equation $x^2 - Dy^2 = \pm 4$* , International Journal of Mathematical Sciences, Vol.2, No1. 2008.
- 2 Armend Sh. Shabani, *The Pell's equation $x^2 - Dy^2 = \pm a$* , Scientia Magna, Vol.3 (2007), No.4, 33-40.
- 1 Armend Sh. Shabani, *Some Inequalities For The Gamma Function*, J. Ineq. Pure Appl. Math., **8**(2) (2007) Art.49.

4.3. Reviewer/Editorial/Referee experience

Thesis reviews

Orli Herscovici, *Application of Umbral Calculus and q-Calculus Methods to Polynomial Functions*, Ph.D. Thesis, University of Haifa, Israel, July 2018

Reviewer experience

September Mathematical Reviews (2)
2014 - Present

Editorial experience

2012 - Present MathProblems, Editor-in-Chief (Sector - Junior Problems)

2010 - Present MathProblems, Member of Editorial Committee

2008 - 2011 Bulletin of Mathematical Analysis and Applications, Managing Editor and Technical Editor

Referee experience

Le Matematiche¹ (1), Bulletin of Iranian Mathematical Society (1), Mathematica Slovaca (2), Science Journals of Mathematics and Statistics (2), Journal of Inequalities and Special Functions (1), Bulletin of Mathematical Analysis and Applications (1), Applications and Applied Mathematics (1), Journal of Ecology and Natural Environment (1), Applied Mathematics Letters (1), International Journal of Open Problems in Computer Science and Mathematics (5), Facta Universitatis, Series: Mathematics and Informatics (1), Journal of Inequalities and Applications (1), Pure Mathematics and Applications (1), Journal of Integer Sequences (1), Discrete Mathematics Letters (1).

4.4. Conferences

- 4 A. Shabani, *Statistics for 3-letter patterns with repetitions in compositions*, 3rd Algorithmic and Enumerative Combinatorics Summer School 2016, August 1-5, 2016, Hagenberg, Austria
- 3 A. Shabani, V. Krasniqi, *Inequalities involving $v_p(n!)$* , 1st International Euroasian Conference on Mathematical Sciences and Applications (IECMSA), September 03-07, 2012, Prishtine, Kosovo.
- 2 K. Hila, A. Shabani, *On topological structure on ternary semihyperrings*, 1st International Euroasian Conference on Mathematical Sciences and Applications (IECMSA), September 03-07, 2012, Prishtine, Kosovo.
- 1 Guberovic R., Harcinovic U., Ristic K., Jovanovic I., Shabani A., Ilic A., *Hardware in the Loop Simulation in Mechatronic Design*, Proceedings of Mathematical Modelling Week and European Industrial Days, Novi Sad 2005.

4.5. Membership

- American Mathematical Society (AMS) • European Mathematical Society (EMS)
- Mathematical Association of America (MAA) • Kosovar Mathematical Society (KMS)
- International Mathematical Union (IMU) • Working Group on Generalized Convexity (WGGC) • Research Group in Mathematical Inequalities and Applications (RGMIA)
- ILAS - The International Linear Algebra Society

5. Professional Works

5.1. Published books (in Albanian)

- 8 Mustafë Kadriu, Naim Braha, Armend Shabani, Valmir Krasniqi, *Matematika për test të maturës 2013*, Prishtinë 2013
- 7 Naim Braha, Armend Shabani, *Matematika për test të maturës*, Botimi i tretë, Prishtinë, 2012
- 6 Naim Braha, Armend Shabani, *Përmbledhje detyrash të zgjidhura nga Matematika Elementare, për përgatitjen e provimit pranues*, AKEA, 2006, Prishtinë 2006
- 5 Ramadan Zejnullahu, Armend Shabani, *Matematika 8, Përmbledhje detyrash të*

¹ Numbers in brackets refer to the number of manuscripts refereed

- zgjdhura*, Dukagjini, 2005, Prishtinë
- 4 Ramadan Zejnullahu, Armend Shabani, *Matematika 7, Përmbledhje detyrash të zgjidhura*, Dukagjini, 2004, Prishtinë
 - 3 Ramadan Zejnullahu, Armend Shabani, *Matematika 6, Përmbledhje detyrash të zgjidhura*, Dukagjini, 2004, Prishtinë
 - 2 A. Bajrami, R. Zejnullahu, S. Bilalli, A. Shabani, *Përmbledhje detyrash përgatitore për gara të matematikës për klasët 7,8,9*, Matrix, Tetovë-FYROM, 2004
 - 1 Armend Shabani, *Përmbledhje Detyrash të Zgjdhura nga Trigonometria*, Ardarei, 2003, Prishtinë.

5.2. Translation of books (into Albanian)

- 5 D. Ohse, *Financial Mathematics*, 5th edition, 320 pg, 2010 ProCredit Academy GmbH
- 4 S. Milojevic, N. Vulovic, *Matematika, za 7 razred osnovne skole, Zbrika zadataka*, Klett, 2009, Beograd
- 3 N. Ikodinovic, S. Dimitrijevic, *Matematika, za 7 razred osnovne skole, Radni Udzbenik*, Klett, 2010, Beograd
- 2 D. Ohse, *Financial Mathematics*, 4th edition, 284 pg, 2010 ProCredit Academy GmbH
- 1 D. Ohse, *Elementary Algebra*, 3rd edition, 2010 ProCredit Academy GmbH

5.3. Proposed problems

Mathematics Magazine, 91 (5) – Problem 2056

Junior Balkan Mathematics Olympiad – 2016 (Shortlisted problems) - Problem N1.

Math problems - Problems: 8 (together with V. Krasniqi), 6, 19, 29, 35, 44 (Junior Section)

SSMA Journal - Problems: 5326

Balkan Mathematical Olympiads 2015; Problem 4, Shortlisted

5.4. Solved problems

American Mathematical Monthly

Problems: 11383, 11385, 11407

Mathematics Magazine

Problems: 2002

SSMA Journal

Problems: 4701, 4692, 4693, 4697, 4698, 5038, 5042, 5043, 5038, 5042, 5043, 5044, 5048, 5051, 5054, 5082, 5213, 5215, 5216, 5240

Pi Mu Epsilon

Problems: 1148, 1149, 1152, 1159, 1161, 1166, 1184, 1187, 1259, 1263, 1266, 1268

Mathematical Reflections

Problems: J241, J243, S241

Missouri Journal of Mathematical Sciences

Problems: 164

Math Central, Math Problems

Problems: MP118,

Bilkent University, Problem of the Month

Problem of the Month: October 2008,

California State University, East Bay, Math and Computer Science Problem of the Month

Problem of the Month: May, 2008.

5.5. Summers schools/Courses/Trainings

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|-----------------------|---|
| 18-22 July
2014 | DAAD Project - Center of Excellence for Applications of Mathematics - Kosove

An introduction into the theory of sequence spaces and measures of noncompactness |
| 15-21 June,
2012 | DAAD Course – Data Protection (courses in <i>Advanced Coding Theory</i> and <i>Projective Geometry and Codes</i>), a satellite event of Conference <i>Algebraic and Combinatorial Coding Theory 2012</i> , Pomorie, Bulgaria |
| 10 -17 Sept.,
2009 | DAAD Project - Center of Excellence for Applications of Mathematics - Macedonia

Algebraic Structures and their Applications in Coding theory and Cryptography |
| 15 –19 June,
2002 | Second International Pristina Summer University 2002

Combinatorial Number Theory, Harmonic Analysis and Applications |

5.6. Mathematical Seminars (albanian)

- 2 Armend Sh. Shabani, *Disa barazime dhe mosbarazime me Gamma dhe q-Gamma funksionin.*
- 1 Armend Sh. Shabani, *Disa veti të operatorëve *-paranormal dhe hipernormal.*

5.7. Math articles for schoolchildren

- 3 Armend Sh. Shabani, *Konstruktimi gjeometrik i numrave te trajtes \sqrt{p} , p-numer i thjesht,* Revista PLUSI, Tetove.
- 2 Armend Sh. Shabani, *Vizita ne Planetin 2Z,* Revista PLUSI, Tetove.

6. Projects

March-August 2019	Ministry of Education Science and Technology Member of Problem Section Unit for National Test
March – August 2018	Ministry of Education Science and Technology The member of Unit for preparation of Curriculum for Mathematics (Pre University Curriculum)
March-August 2018	Ministry of Education Science and Technology Member of Problem Section Unit for National Test
March – August 2017	Ministry of Education Science and Technology The member of Unit for preparation of Curriculum for Mathematics (Pre University Curriculum)
March – August 2017	Ministry of Education Science and Technology The member of Unit for preparation of Curriculum for Mathematics (Pre University Curriculum)
March-August 2017	Ministry of Education Science and Technology Member of Problem Section Unit for National Test
March – August 2016	Ministry of Education Science and Technology The member of Unit for preparation of Curriculum for Mathematics (Pre University Curriculum)
March-August 2016	Ministry of Education Science and Technology Member of Problem Section Unit for National Test
March-August 2015	Ministry of Education Science and Technology Member of Problem Section Unit for National Test
19.10.2015-30.05.2016	ENCOPMAS, Project ATOM, Weekend School Lecturer of Mathematics, Course: Math Circle in Atom
June 2015 – August 2015	Ministry of Education Science and Technology The member of Unit for preparation of Curriculum for Mathematical Gymnasium
27.11.2014-16.12.2014	DAAD, Member of DAAD Selection Committee for awarding Scholarships for Master Studies in Germany
24.11.2013	ANIMAT Kosova, Math classes – Recurrence relations
27.11.2014-16.12.2014	DAAD, Member of DAAD Selection Committee for awarding Scholarships for Master Studies in Germany
26.11.2014	ANIMAT Kosova, Math classes – Combinatorial Problems
June 2014 – August 2014	Ministry of Education Science and Technology The member of Unit for preparation of Curriculum for Mathematical Gymnasium University of Prishtina 14th Prishtina International Summer University,

7-18 July, 2014	Co-Professor of course: Generating Functions
19.10.2013-17.05.2014	ENCOPMAS, Project ATOM, Weekend School Lecturer of Mathematics, Course: Combinatorics – Art of Counting through Problems, Theorems and Investigations
23.12-28.12.2013	College “Mehmet Akif” – Math Olympiad Camp – Classes on: Algebra, Number Theory, Combinatorics
06.11.2013	ANIMAT Kosova, Math classes – Basic Principles of Counting
12.10.2013-15.05.2014	ENCOPMAS, Project ATOM, Summer School Lecturer of Mathematics - Combinatorics

7. Organization/training skills

- 12 President of Kosovar Mathematical Society 2018-
- 11 Trainer of Kosovo Math Olympiad Team, 2018
- 10 Kangaroo Math Contest – Co-funder
- 9 Coordinator of Kosovo Mathematical Olympiad 2017-2018
- 8 Member of Training Team of Kosova for International Mathematical Olympiad 2012
- 7 Member of Organizing Committee for Kosovar Mathematical Olympiad 2012
- 6 Member of organizing Committee for Kosovar Mathematical Olympiad 2011
- 5 Member of organizing Committee for Kosovar Mathematical Olympiad 2010
- 4 Member of the Committee for Prishtina Mathematical Olympiad, April 2010
- 3 Member of organizing Committee for Kosovar Mathematical Olympiad 2009
- 2 Member of Organizing Committee for National Mathematical Olympiad X, PLUS, Gjilan, 2005
- 1 Member of Organizing Committee for National Mathematical Olympiad IX, PLUS, Tetove, 2004