Contact Information	Science 3-086 Department of Mathematics University of Massachusetts Boston 100 William T. Morrissey Boulevard Depterson MA 02125	Mirjana.Vuletic@umb.edu Phone: (617) 287-7418 Fax: (617) 287-6433
	Boston, MA 02125	www.matn.umb.edu/~vuletic/
Professional Preparation	Doctor of Philosophy, Mathematics California Institute of Technology, Pasadena Thesis advisor: Alexei Borodin Thesis title: The pfaffian Schur process	2004-2009 ., CA, USA
	Master of Science, Mathematics University of Novi Sad, Novi Sad, Serbia Thesis Advisor: Stevan Pilipović	2000-2003
	I nesis title: Characterization of wave front s	sets by wavelet transforms
	Bachelor of Science, Mathematics University of Novi Sad, Novi Sad, Serbia	1996–2000
Appointments	Assistant Professor University of Massachusetts Boston Department of Mathematics Boston, MA, USA	2012-present
	Tamarkin Assistant Professor Brown University Department of Mathematics Providence, RI, USA	2009-2012
Research Interests	Statistical physics, probability, enumerative c theory	combinatorics, and representation
Publications (alphabetical authorship)	New edge asymptotics of skew Young diagra Betea, J. Bouttier, and P. Nejjar, to appea Combinatoire XX (2019); arXiv: 1902.08750	ams via free boundaries, with D. ar in Séminaire Lotharingien de
	The free boundary Schur process and application and P.Nejjar; Annales Henri Poincaré (2018), arXiv: 1704.05809	tions I, with D. Betea, J.Bouttier, , Volume 19, Issue 12, 3663–3742;
	Perfect sampling algorithm for Schur proce	sses, with D.Betea, C.Boutillier,

	J.Bouttier, G.Chapuy, and S. Corteel; Markov Processes and Related Fields Vol. 24, Issue 3 (2018), 381–418; arXiv: 1407.3764
	The free boundary Schur process and applications, with D. Betea, J.Bouttier, and P.Nejjar; Séminaire Lotharingien Comb 78B (2017); Article no. 44, 12p, arXiv: 1704.05809v1
	The Gaussian free field and strict plane partitions, Discrete Mathematics and Theoretical Computer Science proc. AS (2013), 1041–1052
	Plane overpartitions and cylindric partitions, with S.Corteel and C. Savelief, Jour. of Comb. Theory A, Vol.118, Issue 4, (2011), 1239–1269; arXiv: 0903.2039
	A generalization of MacMahon's formula, Transactions of Amer. Math. Soc. 361 (2009), 2789–2804; arXiv: 0707.0532
	The shifted Schur process and asymptotics of large random strict plane par- titions, International Research Notices (2007) Vol. 2007: article ID rnm043, 53 pages; arXiv: math-ph/0702068
	Characterization of wave front sets by wavelet transforms, with S. Pilipović, Tohoku Math. J. (2) 58, no.3, (2006), 369–391
	On a problem of coloring of Ramsey type in real space, appeared in Kömal (1996) and Tangenta (1997)
Publications near completion	Asymptotics of large pyramid partitions and steep tilings, with D.Betea, and C.Boutillier
Other Publications	Characterization of wave front sets by wavelet transforms, MSc thesis (in Serbian), University of Novi Sad Master Thesis, (2003)
	The Pfaffian Schur Process, PhD Thesis, CIT Thesis, California Institute of Technology, (2009), 264 pages
Visiting Positions	Non-Equilibrium Systems and Special Functions, MATRIX Institute, University of Melbourne, January 2018
	Combinatorics and interactions, IHP (Institut Henri Poincaré), January 2017 (unable to attend for personal circumstances)
	Statistical mechanics, integrability and combinatorics, GGI (Galileo Galilei Institute for Theoretical Physics), Florence, Italy, June 2015.
	Phase transitions and Emergent Properties, ICERM (Institute for Computa- tional and Experimental Research in Mathematics), Providence, April, 2015

Grant	AWM-NSF Travel Grant for FPSAC 2017, London UK, awarded June, 2017
Awards	Scott Russell Johnson Graduate Dissertation Prize in Mathematics, Caltech, 2009
	Scott Russell Johnson Prize for excellence in both research and teaching, Caltech, 2006
Conference and Seminar Talks	MATRIX Program: Non-Equilibrium Systems and Special Functions, Creswick, Australia, January, 2018
	FPSAC 2017, 29th Annual International Conference on Formal Power Series and Algebraic Combinatorics, London, UK, July 2017
	10th International Symposium on Quantum Theory and Symmetries and 12th International Workshop on Lie Theory and Its Applications to Physics, Varna, Bulgaria, June 2017
	Probability and Analysis Seminar, University of Connecticut, Storrs, CT, April 2016
	Random Interfaces and Integrable Probability Conference, Statistical Mechan- ics, Integrability and Combinatorics Program, Galileo Galilei Institute for Theoretical Physics, Florence, Italy, June 2015
	Limit Shapes Workshop, Phase Transitions and Emergent Properties Pro- gram, ICERM, Providence, RI, April 2015
	Nationale Institute of Nuclear Physics-Sezione di Firenze, Florence, Italy, May 2014
	UMB Math Club, UMass Boston, Boston, MA, March 2014
	FPSAC 2013, 25th Annual International Conference on Formal Power Series and Algebraic Combinatorics, Paris, France, June 2013
	Colby College Mathematics and Statistics Colloquium, Colby College, Water- ville, ME, April 29, 2013
	UMB Mathematics Colloquium, UMass Boston, Boston, MA, April 2013
	AWM Research Symposium, Santa Clara, CA, March 2013
	Colloquium, UMass Boston, Boston, February 2012
	MIT Probability Seminar, Boston, February 2012
	Discrete Lattice Models in Mathematics, Physics and Computing, Connections for Women, MSRI, Berkeley, CA, January 2012
	Discrete Math Seminar, Brown University, December 2011
	AMS Spring Central Section Meeting, Special Session on Algebraic Combina- torics, Iowa City, IA, March 2011
	Discrete Math Seminar, Brown University, February 2011
	Geometry Topology Seminar, Brown University, September 2009

	Colloquium, University of Cincinnati, February 2009
	USC Probability & Statistics Seminar, Los Angeles, December 2008
	Fall Southeastern AMS Meeting, Special Session on Random Matrices, University of Alabama, Huntsville, AL, October 2008
	Fall Western AMS Meeting, Special Session on Probability and Statistical Mechanics, University of British Columbia and PIMS, Vancouver, Canada, October 2008
	Workshop on Random tilings, random partitions and stochastic growth pro- cesses, CRM, Montreal, Canada, September 2008
	Workshop on Recent Progress in Two-Dimensional Statistical Mechanics, BIRS, Banff, Canada, July 2008
	MIT Combinatorics Seminar, Boston, February, 2008
	Introductory Workshop on Combinatorial Representation Theory, MSRI, Berkeley, CA, January 2008
	Geometry and Combinatorics Graduate Student Seminar, Berkeley, December, 2007
	Mathematical Physics & Probability Seminar, Davis, December 2007
	Combinatorics Seminar, Caltech, Pasadena, April 2007
Teaching Experience	 UMass Boston (2012-present) Instructor Calculus I (Math 140) Multivariable Calculus & Vector Calculus (Math240/242) Linear Algebra (Math 260) Probability and Statistics I (Math 345) Probability and Statistics II (Math 346) Special Topics: Probability Models (Math 480) Special Topics: Mathematical Finance (Math 480) Independent Study: Stochastic Calculus (Math 478) Independent Study: Mathematical Finance (Math 478) Independent Study: Point Processes and Applications to Machine Learning (Math 678)
	Brown University (2009-2012) Instructor Advanced Placement Calculus (Ma 19), Mathematical Statistics (Ma 162), Intermediate Calculus (Ma 18), Linear Algebra (Ma 52)
	California Institute of Technology (2004-2009) Instructor Problem Solving in Calculus (Ma8), Series (Ma1d) Teaching Assistant (recitations, office hours, grading)

	Differential Equations (Ma2a), Probability and Statistics (Ma2b), Calculus of Several Variables (Ma1c)
	Grader (office hours, grading) Classical Analysis: Complex Analysis (Ma 108c)
	University of Novi Sad (2000-2004) Teaching Assistant (recitations, office hours, grading) Multivariable Calculus, Differential Geometry, Metric Spaces, Partial Differ- ential Equations for mathematics students, Mathematics II (Complex Analysis and Probability and Statistics) for physics students
${f Outreach} {f Activites}$	Research Science Institute In 2018 I supervised a research project of a high school student Aditi Limaye at the Research Science Institute.
	Math Club at W. Denney Youth Center In 2014 I ran a math club at W. Denney Youth Center (Harbor Point Outreach Partnership between the center and UMass Boston) for elementary school students where I presented advance level topics in mathematics through age appropriate activities.
	Intel Science Talent Search In 2010 I mentored a high school student Seth Neel, who then wrote a paper "Shifted plane overpartitions and Aztec diamonds" and was chosen to be a semifinalist (top 300 in the country, the only one from RI) in Intel Science Talent Search.
	Petnica Science Center During 1997–2004 I was on a team that ran mathematics programs at Petnica Science Center (a unique center in Southern Eastern Europe dedicated to informal education of future scientists) where I taught very talented high- school students and mentored their research projects.
	Center for Talented Youth In 2004, I was an assistant in Center for Talented Youth, Novi Sad, Serbia, where I supervised 5 high-school math projects.
Journal Reviewer	Probability Theory and Related Fields, Annals of Combinatorics, Contemporary Mathematics, Integral Transforms and Special Functions, Communications in Mathematical Physics, Journal of Physics A: Mathematical and Theoretical, International Math Research Notices, Mathematical Communications, Acta Applicandae Mathematicae, Journal of Combinatorial Series A
Collaborators	Dan Betea, Sylivie Corteel and Guillaume Chapuy, Univ Paris Diderot 7; Cédric Boutillier Univ Pierre et Marie Curie; Jérémie Bouttier Univ Lyon; Peter Nejjar IST Austria

Graduate and	Stevan Pilipović, University of Novi Sad: MSc Advisor	
Postdoctoral	Alexei Borodin MIT: PhD Advisor	
Advisors		
	Richard Kenyon, Brown University: Postdoctoral Sponsor	