Contact Information	Mathematics Department University of Illinois at Urbana-Champaign	DL
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		L-matt. vesna@mnois.edu
Research Interests	Homotopy theory, derived algebraic geometry, arithmetic geometry	
Employment	University of Illinois at Urbana-Champaign	
	Assistant Professor, August 2015 - present	
	Max Planck Institute for Mathematics, Bonn, Germany	
	Advanced researcher, August 2014 - July 2015	
	Mathematical Sciences Research Institute, Berkeley, California	
	Viterbi Endowed Postdoctoral Scholar, Spring 2014 semester	
	Massachussets Institute of Technology, Cambridge, Massachusetts	
	C.L.E. Moore Instructor, September 2011 - January 2014	
	• Mentors: Mark Behrens, Haynes Miller	
Education	Northwestern University, Evanston, Illinois	
	Ph.D., Mathematics, June 2011; Thesis title	e "Duality for topological modular forms"
	• Adviser: Paul Goerss	
	M.S., Mathematics, December 2007	
	American University in Bulgaria, Blagoev	vgrad, Bulgaria
	B.A., Mathematics, May, 2006	
	B.A., Computer Science, May 2006	
Awards and	- UIUC Center for Advanced Study	
HONORS	• Fellow 2018-2019 - NSF Research grants	
	 "Dualizing modules in algebra and geometry" 	etry," DMS-1307390 and DMS-1606479, 2013-
	- NSF Conference grants	
	• "Homotopy Theory: tools and applicatio	ns," DMS-1719242, 2017
	• "Conference on Derived Algebraic Geome	try: Picard groups, Brauer groups, and twists,"
	DMS-1700795, 2017 • "Midwest Topology Seminar" DMS-1747	7457 2017
	- midwest ropology benniar, DMD-1141	101, 2011

	 AMS-Simons Travel Grant 2011-2013 Best Doctoral Thesis Award for the academic 2010-2011, Department of Mathematics, Northwestern University. The Mathematical Association of America's Carl B. Allendoerfer Award, with O. Stoytchev, for expository article Touching the Z₂ in three-dimensional rotations, Math.Mag. 81 (2008), no. 5, 345-357.
Publications	1. Anderson and Gorenstein duality, with J.Greenlees, to appear in proceedings of Groups, Representations, and Cohomology conference in honor of Dave Benson.
	2. Classification of problematic subgroups of $U(n)$, with J.Bergner, R.Joachimi, K.Lesh, and K.Wickelgren. To appear in Transactions of the AMS.
	3. <i>Motivic Homotopical Galois Extensions</i> , with A.Beaudry, M.Kedziorek, M.Merling, and K.Hess. To appear in proceedings of the second Women in Topology workshop.
	 Picard groups of higher real K-theory spectra at height p-1, with D.Heard and A.Mathew. Compos. Math. 153 (2017), no. 9, 1820-1854.
	 Galois action on the homology of Fermat curves, with R.Davis, R.Pries, and K.Wickelgren. Directions in number theory, 57-86, Assoc. Women Math. Ser., 3, Springer, [Cham], 2016.
	 The Picard group of topological modular forms via descent theory, with A.Mathew. Geom. Topol. 20 (2016), no. 6, 3133-3217.
	 Fibers of partial totalizations of a pointed cosimplicial space, with A.Mathew. Proc. Amer. Math. Soc. 144 (2016), no. 1, 445-458.
	 Fixed points of p-toral groups acting on partition complexes, with J.Bergner, R.Joachimi, K.Lesh, and K.Wickelgren. Women in Topology: Collaborations in Homotopy Theory, Contemporary Mathematics, vol. 641, Amer. Math. Soc., Providence, RI, 2015, pp. 83-96.
	9. K-theory, reality, and duality, with D.Heard. J. K-Theory 14 (2014), no. 3, 526-555.
	 Descent for 2-primary topological modular forms. An Alpine Expedition through Algebraic Topology, Contemporary Mathematics, vol. 617, Amer. Math. Soc., Providence, RI, 2014, pp. 241-258.
	11. Duality for topological modular forms. Documenta Math. 17 (2012) 271-311.
	 Touching the Z₂ in three-dimensional rotations, with O.Stoytchev. Math.Mag. 81 (2008), no. 5, 345-357.
Submitted papers	1. Galois action and cohomology of a relative homology group of Fermat Curves, with R.Davis, R.Pries, and K.Wickelgren.
	2. Gross-Hopkins Duals of Higher Real K-theory Spectra, with A.Beaudry and T.Barthel.
	3. On the ring of cooperations for 2-primary connective topological modular forms, with M.Behrens, K.Ormsby, and N.Stapleton.

Selected	 Homotopy Theory in the Ecliptic, Reed College, August 2017 Conference on invertible objects and duality in derived algebraic geometry and homotopy theory, University of Regensburg, April 2017 	
Invited Talks		
	3. Annual Meeting of the DFG-SPP 1786, University of Wuppertal, Germany, March 2017	
	4. Electronic Chromatic Theory Seminar, March 2017	
	5. Alpine Algebraic and Applied Topology Conference, Saas, Switzerland, August 2016	
	6. West Coast Algebraic Topology Summer School, University of Oregon, August 2016	
	7. Mathematics Colloquium, Reed College, April 2016	
	8. Mid-atlantic topology conference, Johns Hopkins University, March 2016	
	9. Cascade topology seminar, Portland State University, November 2015	
	10. Conference "Graduate Research Opportunities for Women", Northwestern University October 201511. Midwest topology seminar, Wayne State University, October 2015	
	13. Colloquium, University of Osnabrück, October 2014	
	14. Barcelona topology workshop, October 2014	
	15. Modular Invariants in Topology and Analysis, Regensburg, September 2014.	
	16. Stable Homotopy Theory: Structured Ring Spectra and Their Invariants, Manchester, September 2014.	
	17. Reimagining the Foundations of Algebraic Topology, MSRI, April 2014.	
Scientific Programs	- Derived Algebraic Geometry, at the Mathematical Sciences Research Institute, January - March 2019	
PARTICIPATION	- <i>Homotopy Harnessing Higher Structures</i> , at the Isaac Newton Institute for Mathematical Sciences, July - October 2018	
	- Homotopy theory, manifolds, and field theories, at the Hausdorff Research Institute for	
	Mathematics, May - July 2015 Algebraic Tenclogy at the Mathematical Sciences Personal Institute January May 2014	
	Algeorate Topology, at the Mathematical Sciences Research Institute, January - May 2014	
Conference Organizing	 Mini-Workshop: Chromatic Phenomena and Duality in Homotopy Theory and Representation Theory, March 4-10, 2018, at the Mathematisches Forschungsinstitut Oberwolfach, Germany. Co-organized with Tobias Barthel and Henning Krause. Homotopy theory: tools and applications. July 17-21, 2017, at the University of Illinois. 	
	Co-organized with Daniel Davis, Mark W. Johnson, and Charles Rezk.	
	- Conference on invertible objects and duality in derived algebraic geometry and homotopy theory, April 3-7, 2017, at the University of Regensburg, Germany. Co-organized with Paul Goerss, Akhil Mathew, Thomas Nikolaus, and Justin Noel.	

Recent Teaching Experience	 Math 526 Algebraic Topology II Math 416 Abstract Linear Algebra - usual and honors sections Math 402 Non-Euclidean Geometry Math 597 Reading Courses
Advising	– Elizabeth Tatum, PhD student

– Dominic Culver, postdoc