Aleksandar Milivojevic

Contact Information	Mathematics Department Stony Brook University 100 Nicolls Road Stony Brook, 11794, New York	Phone: +1 631 994 9870 E-mail: milivojevic@math.stonybrook.edu Office: 3-104	
Research Interests	Rational homotopy theory and its application to the study of almost complex structures on manifolds; almost complex geometry		
Education	Stony Brook University, Stony Brook, NY		
	Ph.D. student, Mathematics, August 2015 – May 2021 (expected) - Advisor: Dennis Sullivan		
	University of Zagreb, Zagreb, Croatia		
	M.S., Theoretical Mathematics, 2013–2015, <i>Summa Cum Laude</i> - Advisor: Goran Muic		
	B.S., Mathematics, 2010–2013		
PUBLICATIONS	 On the minimal sum of Betti numbers of an almost complex manifold, with M. Albanese, Differential Geometry and its Applications, 2019; link 		
	 Connected sums of almost complex man spin^c Dirac operator, with M. Albanese, 	folds, products of rational homology spheres, and the twisted <i>Topology and its Applications</i> , 2019; link	
	 Verifying the Hilali conjecture up to form and Related Structures, 2020; link 	nal dimension twenty, with S. Cattalani, Journal of Homotopy	
	 Another proof of the persistence of Serre system to the short note, 2020; link 	ymmetry in the Frölicher spectral sequence, Complex Manifolds,	
Accepted for Publication	 On the realization of symplectic algebras arxiv preprint: 2011.02928, 2020; accept Society 	and rational homotopy types by closed symplectic manifolds, ed for publication in <i>Proceedings of the American Mathematical</i>	
Preprints	– Spin ^{h} and further generalisations of spin,	with M. Albanese, arxiv preprint: 2008.04934, 2020; submitted	
	 On the topology of the space of almost complex structures on the six sphere, with B. Ferlengez and G. Granja, 2020; submitted 		
Awards and Stipends	 The John W. Milnor Endowed Graduate Mathematics departmental award for M.S. Mathematics departmental award for B.S. Academic Stipend from the City of Dubr Academic Stipend from the Croatian Min Stipend from the Croatian National Cent 	Fund in Math, Stony Brook, 2018 S. students, University of Zagreb, 2015 S. students, University of Zagreb, 2013 ovnik, Croatia, 2013–2015 nistry of Education, 2012–2013 ter for External Evaluation of Education, 2011–2012	
Invited talks	Einstein Chair Seminar, City University of New York Graduate Center, January 2021		
	Oberwolfach mini-workshop Almost Complex Geometry, October 2020		
	City University of New York Graduate Cen 2018, May 2018	ter almost complex geometry seminar, September 2019, June	

	Brony Community College December 2010	
	Ludwig-Maximilians-Universität München Oberseminar Geometrie, October 2019, December 2020	
	Ludwig-Maximinans-Oniversitat Munchen Obersemmar Geometrie, October 2019, December 2020	
	Cit II i i i Chi Val Cal to Cat Tal Carton I Di i Cari Na la 2019	
	City University of New York Graduate Center Topology, Geometry, and Physics Seminar, November 2018	
	Dennis Sunivan's Stony Brook seminar, October 2017	
	Workshop on J-holomorphic curves and Gromov–Witten invariants at the National Institute of Science Education and Research (NISER) Bhubaneswar, India, July 2017	
	Dennis Sullivan's City University of New York Graduate Center seminar, May 2017	
Workshops and Conferences	Oberwolfach mini-workshop Almost Complex Geometry, October 2020	
	European Talbot workshop on free loop spaces, Fischbach bei Dahn, Germany, July-August 2018	
	James Simons' 80 th birthday conference – Fluids in dim ≤ 3 and complex manifolds in dim ≥ 3 , CUNY Graduate Center, April 2018	
	Workshop on J-holomorphic curves and Gromov–Witten invariants at the National Institute of Science Education and Research (NISER) Bhubaneswar, India, July 2017	
	Algebraic Geometry Northeastern Series, November 2016, University of Massachusetts Amherst	
	Graduate Student Conference in Algebra, Geometry, and Topology, May 2016, Temple University	
	Algebraic Geometry Northeastern Series, April 2016, Yale University	
Teaching Experience	Traching Arristant Stand Dual Iniconsite	
	Charles E B 2015 E B 2016 C = 2017 C = 2010	
	- Calculus, Fall 2015, Fall 2016, Spring 2017, Spring 2018, Fall 2018, Fall 2019, Spring 2020	
	- Introduction to Analysis, Fall 2017, Spring 2019	
	- Differential Equations with Linear Algebra, Spring 2016	
	- Differential Equations: Dynamics and Change, grader Spring 2016	
	- Advanced Algebraic Topology, grader Fall 2020	
	- Geometry for Teachers, grader Fall 2020	
	Junior Teaching Assistant, University of Zagreb	
	- Linear Algebra, Probability, Set Theory, Metric Spaces	
Outreach, Service, and other experience	Mentored the sophomore Spencer Cattalani as part of the Directed Reading Program at Stony Brook University. This led to the publication "Verifying the Hilali conjecture up to formal dimension twenty", Journal of Homotopy and Related Structures, 2020; link	
	Referee for Mathematische Nachrichten	
	Quick opinion for Differential Geometry and its Applications	
	Reviewer for zbMATH	
	American Mathematical Society Graduate Student Chapter at Stony Brook, President, 2017–2019	
	David Kahn's Saturday Applied Math program for high-school students, Spring 2018	
	Math in Jeans at Stony Brook, Spring 2018	

G-Research New York algorithmic trading game case study (team participant)