Aleksandar Milivojević

Information	<i>Email:</i> amilivoj@uwaterloo.ca <i>Website:</i> https://www.math.uwaterloo.ca/~amilivoj/; zbMATH; Google scholar
Research Interests	Algebraic topology of manifolds and rational homotopy theory, in particular of complex, symplectic, and spin manifolds and their generalizations
Academic Appointments	University of Waterloo , Faculty of Mathematics William T. Tutte Postdoctoral Fellowship (link to details) August 2023 – Max Planck Institute for Mathematics , Bonn. Postdoctoral fellow August 2021 – July 2023
Education	Stony Brook University, Stony Brook, New York
	Ph.D. student, Mathematics, August 2015 – May 2021, advisor Dennis Sullivan
	University of Zagreb, Croatia
	M.S., Theoretical Mathematics, 2013–2015, <i>Summa Cum Laude</i> , advisor Goran Muić
	B.S., Mathematics, 2010–2013
PUBLICATIONS	 Milivojević, A., 2024. On the behavior of Massey products under field extension, Journal of Pure and Applied Algebra. link
	- Granja, G. and Milivojević, A., 2022. Topology of almost complex structures on six-manifolds, SIGMA (Symmetry, Integrability and Geometry: Methods and Applications). link
	 Milivojević, A., 2022. On the characterization of rational homotopy types and Chern classes of closed almost complex manifolds, <i>Complex Manifolds</i>. link
	 Hu, J. and Milivojević, A., 2022. Infinite symmetric products of rational algebras and spaces, Comptes Rendus Mathématique. link
	 Milivojević, A., 2022. The weak form of Hirzebruch's prize question via rational surgery. Journal of Topology and Analysis. link
	 Ferlengez, B., Granja, G., and Milivojević, A., 2021. On the topology of the space of almost complex structures on the six sphere. New York Journal of Mathematics, Volume 27 (2021), 1258-1273. link
	 Albanese, M. and Milivojević, A., 2021. Spin^h and further generalisations of spin. Journal of Geometry and Physics, 164, p.104174. link
	 Milivojević, A., 2021. On the realization of symplectic algebras and rational homotopy types by closed symplectic manifolds. <i>Proceedings of the American</i> <i>Mathematical Society</i>, 149(5), pp.2257-2263. link

	 Milivojević, A., 2020. Another proof of the persistence of Serre symmetry in the Frölicher spectral sequence. <i>Complex Manifolds</i>, 7(1), pp.141-144. link
	 Cattalani, S. and Milivojević, A., 2020. Verifying the Hilali conjecture up to formal dimension twenty. <i>Journal of Homotopy and Related Structures</i>, pp.1-9. link
	 Albanese, M. and Milivojević, A., 2019. Connected sums of almost complex manifolds, products of rational homology spheres, and the twisted spin^c Dirac operator. <i>Topology and its Applications</i>, 267, p.106890. link
	 Albanese, M. and Milivojević, A., 2019. On the minimal sum of Betti numbers of an almost complex manifold. <i>Differential Geometry and its Applications</i>, 62, pp.101-108. link
Accepted	 Milivojević, A. and Stelzig, J., 2022. Bigraded notions of formality and Aeppli- Bott-Chern-Massey products. link. To appear in <i>Communications in Analysis</i> and Geometry.
Preprints	– Milivojević, A., 2023. Universal covers of non-negatively curved manifolds and formality. link
	 Milivojević, A., Stelzig, J., Zoller, L., 2023. Formality is preserved under domination. link
	 Milivojević, A. Stelzig, J., Zoller, L., 2022. Poincaré dualization and Massey products. link
Reports	- Oberwolfach, Research in pairs with J. Stelzig, 2021. link
	– Oberwolfach, Almost Complex Geometry mini-workshop, 2020. link
Invited talks and lectures	City University of New York Graduate Center, DGT seminar, March 2024
	Ohio State University, Topology seminar, March 2024
	Michigan State University, Geometry seminar, February 2024
	University of Chicago, No Boundaries seminar, November 2023
	Oregon–Wichita Topology/Geometry Zoom Seminar, October 2023 (online)
	McMaster University, Geometry and Topology seminar, September 2023
	LMU München, Oberseminar Geometrie, May 2023
	University of Waterloo, Geometry and Topology seminar, March 2023
	Oregon–Wichita Topology/Geometry Zoom Seminar, January 2023 (online)

City University of New York Graduate Center, Topology, Geometry, and Physics Seminar, November 2022 (online)

Université de Strasbourg, Algebra and Topology seminar, November 2022

City University of New York Graduate Center, DGT seminar, October 2022

Instituto Superior Técnico Lisboa, Geometry seminar, June 2022

Columbia University, Algebraic Topology seminar, May 2022

City University of New York Graduate Center, Differential Geometry and Topology seminar, March 2022

Universitat de Barcelona, Topology seminar, February 2022

IISER Kolkata, five-part lecture series October–November 2021 (online)

Max Planck Institute for Mathematics Bonn, Oberseminar, November 2021

Oregon–Wichita Topology/Geometry Zoom Seminar, September 2021 (online)

Ludwig–Maximilians–Universität München Oberseminar Geometrie, December 2020 (online)

Oregon–Wichita Topology/Geometry Zoom Seminar, December 2020 (online)

Oberwolfach mini-workshop Almost Complex Geometry, October 2020 (online)

City University of New York Graduate Center Almost Complex Geometry seminar, September 2020

Bronx Community College, City University of New York, December 2019

Ludwig-Maximilians-Universität München Oberseminar Geometrie, October 2019

City University of New York Graduate Center Almost Complex Geometry seminar, September 2019

University of Zagreb, Croatia, Topology Seminar, March 2019

City University of New York Graduate Center Topology, Geometry, and Physics Seminar, November 2018

University of Zagreb, Croatia, Topology Seminar, July 2018

City University of New York Graduate Center Almost Complex Geometry seminar, March–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

Dennis Sullivan's City University of New York Graduate Center seminar, May 2017

CONFERENCES, Peter Teichner's $60^{\rm th}$ birthday conference, Les Diablerets, Switzerland, May 2023 WORKSHOPS

Four Decades of the Einstein Chair Seminar, City University of New York Graduate Center, January 2023 Twinned Conference on Homotopy Theory with Applications to Arithmetic and Geometry, at the Max Planck Institute in Bonn, June 2022 Institut Mittag–Leffler, workshop "Higher algebraic structures in algebra, topology		
Geometry, at the Max Planck Institute in Bonn, June 2022 Institut Mittag–Leffler, workshop "Higher algebraic structures in algebra, topology		
and geometry", participated two weeks, January–February 2022	т	
Oberwolfach Research-in-Pairs, with J. Stelzig, "Formality, non-zero degree maps, and (almost) complex manifolds", December 2021		
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Geometry, at the Max Planck Institute in Bonn, June 2022 Institut Mittag–Leffler, workshop "Higher algebraic structures in algebra, topology	Center,	January 2023

Mentoring students	Mentored two undergraduate students visiting the Max Planck Institute in Bonn on a research project in the rational homotopy theory of almost complex manifolds, <i>On almost complex rational quaternionic projective spaces.</i> September 2022.
	(Unofficial) Assisted Peter Teichner in mentoring Anton Ablov for Master's thesis at the University of Bonn, 2022
	Mentored the sophomore Spencer Cattalani (who is now a math PhD student at Stony Brook) 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", <i>Journal of Homotopy and Related Structures</i> , 2020; link
Outreach, service, and other experience	American Mathematical Society Graduate Student Chapter at Stony Brook, <i>President</i> , 2017–2019. – involved securing funds and organizing student activities
	Various programs for extracurricular mathematics for high-school students while at the University of Zagreb (co-initiated a program at the Lucijan Vranjanin Gymnasium) and at Stony Brook (reference: David Kahn)
	Tutor at the Mathematics Learning Center, Stony Brook University 2015–2021
	Long Island Science and Engineering Fair, Mathematics Judge 2017
	Referee for Advances in Mathematics, Journal of Topology, Vietnam Journal of Mathematics, Mathematische Nachrichten, Complex Manifolds, EMS Surveys in Mathematical Sciences, Münster Journal of Mathematics, Proceedings of the International Geometry Center; quick opinions for Algebraic and Geometric Topology, Differential Geometry and its Applications, La Matematica
	Reviewer for zbMATH, Mathematical Reviews