Publications

I un	incutions
(20)	Heisenberg homology on surface configurations (with C. Blanchet and A. Shaukat)
	To appear in Mathematische Annalen (cf. arXiv:2109.00515, 59 pp.)
(19)	Polynomiality of surface braid and mapping class group representations (with A. Soulié)
	To appear in Transactions of the American Mathematical Society (cf. arXiv:2302.08827, 58 pp.)
(18)	When the lower central series stops: a comprehensive study for braid groups and their relatives
	(with J. Darné and A. Soulié)
	Memoirs of the American Mathematical Society 309 (2025), 1563 (130 pp.)
(17)	The pro-nilpotent Lawrence-Krammer-Bigelow representation (with A. Soulié)
	Journal of Pure and Applied Algebra 229.6 (2025), 107952 (39 pp.)
(16)	Action of subgroups of the mapping class group on Heisenberg homologies (with C. Blanchet and A. Shaukat)
(15)	Contemporary Mathematics 813 (2025), 235–255 (21 pp.)
(15)	On the homology of big mapping class groups (with X. Wu)
(1.4)	Journal of Topology 17.4 (2024), e12358 (41 pp.)
(14)	Topological representations of motion groups and mapping class groups – a unified functorial construction
	(with A. Soulié)
	Annales Henri Lebesgue 7 (2024), 409–519 (111 pp.)
(13)	Big mapping class groups with uncountable integral homology (with X. Wu)
	Documenta Mathematica 29.1 (2024), 159–189 (31 pp.)
(12)	Homology stability for asymptotic monopole moduli spaces (with U. Tillmann)
	Proceedings of the Royal Society A 479 (2023), 20230300 (16 pp.)
(11)	Motivic homological stability of configuration spaces (with G. Horel)
	Bulletin of the London Mathematical Society 55.2 (2023), 892–913 (22 pp.)
(10)	Point-pushing actions for manifolds with boundary (with U. Tillmann)
	Groups, Geometry, and Dynamics 16.4 (2022), 1179–1224 (46 pp.)
(9)	The Burau representations of loop braid groups (with A. Soulié)
	Comptes Rendus. Mathématique 360 (2022), 781–797 (17 pp.)
(8)	Configuration-mapping spaces and homology stability (with U. Tillmann)
	Research in the Mathematical Sciences 8 (2021) no. 38 (45 pp.)
(7)	Homological stability for moduli spaces of disconnected submanifolds, I
	Algebraic & Geometric Topology 21.3 (2021), 1371–1444 (74 pp.)
(6)	Triple-crossing number and moves on triple-crossing link diagrams (with C. Adams and J. Hoste)
	Journal of Knot Theory and Its Ramifications 28.11 (2019), 1940001 (20 pp.)
(5)	Twisted homological stability for configuration spaces
, í	Homology, Homotopy and Applications 20.2 (2018), 145–178 (34 pp.)
(4)	Scanning for oriented configuration spaces (with J. Miller)
	Homology, Homotopy and Applications 17.1 (2015), 35–66 (32 pp.)
(3)	A twisted homology fibration criterion and the twisted group-completion theorem (with J. Miller)
(-)	Quarterly Journal of Mathematics 66.1 (2015), 265–284 (20 pp.)
(2)	On homological stability for configuration spaces on closed background manifolds (with F. Cantero)
(-)	Documenta Mathematica 20 (2015), 753–805 (53 pp.)
(1)	Homological stability for oriented configuration spaces
(1)	Transactions of the American Mathematical Society 365 (2013), 3675–3711 (37 pp.)
	Transactions of the American Mathematical Society 305 (2013), 5075 5711 (57 pp.)
Preprints	
(25)	Compact and finite-type support in the homology of big mapping class groups (with X. Wu)
(23)	arXiv:2405.03512 (20 pp.)
(24)	Lawrence-Bigelow representations, bases and duality (with C. Anghel)
(21)	arXiv:2011.02388 (25 pp.)
(23)	Stability for moduli spaces of manifolds with conical singularities

- (23) Stability for moduli spaces of manifolds with conical singularities arXiv:1807.07558 (29 pp.)
- (22) A comparison of twisted coefficient systems arXiv:1712.06310 (31 pp.)
- (21) Homological stability for subgroups of surface braid groups (with T. Tran) arXiv:1410.0923 (10 pp.)

Chapters of books

(A) Appendix to "*Lectures on Invertible Field Theories*" by S. Galatius (with A. Debray and S. Galatius) IAS/Park City Mathematics Series 28 (2021), 380–400

Theses

 (II) Moduli spaces and their fundamental groups: homology, representations and lower central series Habilitation thesis, Institute of Mathematics of the Romanian Academy Submitted in January 2024; defended in June 2024.
 Examiners: Louis Funar (Grenoble), Sergiu Moroianu (IMAR), Victor Vuletescu (Bucharest) Thesis text available at: mdp.ac/habilitation/habilitation-thesis.pdf

(I) Configuration spaces and homological stability

 DPhil thesis, University of Oxford
 Submitted in December 2012; defended in February 2013.
 Supervisor: Ulrike Tillmann
 Examiners: Graeme Segal (Oxford), Nathalie Wahl (Copenhagen)
 Archived in the Oxford University Research Archive
 URL: https://ora.ox.ac.uk/objects/uuid:7e056dbd-2cdd-4eac-9473-53f750371f9a