

# Ivan Martino

## Publication List

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All my scientific production is available on [arXiv.org](https://arxiv.org) and on my [Google scholar profile](#).

### In preparation, draft available upon request

- *Groups generated in complex codimension two*, with Rahul Singh;
- *Realizable  $\mathbb{Z}$ -matroids*, with Alex Fink;
- *Shellability for toric arrangements*, with Alex Fink;

### Submitted for publication and available in [arXiv.org](https://arxiv.org)

- *Set of independencies and Tutte polynomial of matroids over a domain*, with Alessio Borzì;
- *Motivic classes of classifying stacks of some semi-direct products*, with Federico Scavia;

### Accepted, In Press, and Published articles

- *On the codimension of Noether-Lefschetz loci for toric threefolds*, with Valeriano Lanza, *Communications in Contemporary Mathematics* (2019) 1950037 (5 pages), World Scientific Publishing Company, DOI: 10.1142/S0219199719500378;
- *Cohen-Macaulay Property of pinched Veronese Rings*, with Ornella Greco, *J. Commut. Algebra* (2019), Advance publication, <https://projecteuclid.org:443/euclid.jca/1552464033>;
- *Finite Groups Generated in Low Real Codimension*, with Rahul Singh, *Linear Algebra and Its Applications* 570C (2019) pp. 245–281, <https://doi.org/10.1016/j.laa.2019.01.004>;
- *Face module for realizable  $\mathbb{Z}$ -matroids*, *Contributions to Discrete Mathematics*, Volume 13, Number 2, Pages 74–87, <https://doi.org/10.11575/cdm.v13i2.62737>;
- *Introduction to the Ekedahl Invariants*, *MATH. SCAND.* 120 (2017), 211–224a, DOI: <https://doi.org/10.7146/math.scand.a-25693>;
- *The Ekedahl invariants for finite groups*, *J. Pure Appl. Algebra* 220 (2016), no. 4, 1294–1309, DOI:10.1016/j.jpaa.2015.08.019;
- *Syzygies of Veronese modules* with Ornella Greco, *Comm. Algebra* 44 (2016), no. 9, 3890–3906, DOI:10.1080/00927872.2015.1027389;
- *Vertex Collapsing and Cut Ideals*, *Serdica Math. J.* 41 (2015), 229–242;
- *On the variety of linear recurrences and numerical semigroups* with Luca Martino, *Semigroup Forum* 88 (2014), no. 3, 569–574. 20M14, DOI: 10.1007/s00233-013-9551-2;
- *Global Optimization for Algebraic Geometry - Computing Runge-Kutta Methods* with Giuseppe Nicosia, *Learning and Intelligent Optimization, Lecture Notes in Computer Science*, 2012, 2012, 449–454, DOI:10.1007/978-3-642-34413-8\_43;

- *Regular sequences of power sums and complete symmetric polynomials* with Neeraj Kumar, *Le Matematiche*, Vol. LXVII (2012) - Fasc. I, pp. 103-117, doi:10.4418/2012.67.1.10;
- *An algebraic proof for the identities for the degree of syzygies in numerical semigroup* with Neeraj Kumar, *Le Matematiche*, Vol. LXVII (2012) - Fasc. I, pp. 81-89, doi: 10.4418/2012.67.1.8;

## ————— Doctoral, Licentiate and Diploma Thesis

- *Ekedahl Invariants, Veronese Modules and Linear Recurrence Varieties*, Doctoral Thesis – Stockholm University (2014);
- *The Ekedahl Invariants for finite groups*, Licentiate Thesis – Stockholm University (2013);
- *Signal functions on Semigroups*, Diploma Thesis – Catania Institute of Advanced Study (2010).