Alessio Borzì

Curriculum vitae

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Education

30/09/2019-current (expected) PhD in Mathematics, University of Warwick, Coventry, United Kingdom.

Advisor: Diane Maclagan

18/12/2020 Diploma of Scuola Superiore di Catania, Scuola Superiore di Catania, Catania, Italy, Summa cum laude.

Advisor: Ivan Martino, Opponent: Alicia Dickenstein

29/07/2019 Master's degree in Mathematics, Università di Catania, Catania, Italy, Summa cum laude.

Advisor: Marco D'Anna

20/07/2017 Bachelor's degree in Mathematics, Università di Catania, Catania, Italy, Summa cum laude.

Advisor: Marco D'Anna

Publications and Preprints

- 1. Alessio Borzì. A characterization of the Arf property for quadratic quotients of the Rees algebra. J. Algebra Appl., 19(7):2050127, 14, 2020.
- 2. Alessio Borzì. Patterns on the numerical duplication by their admissibility degree. In Numerical semigroups, volume 40 of Springer INdAM Ser., pages 9-25. Springer, Cham, 2020.
- 3. Alessio Borzì and Alessio D'Alì. Graded algebras with cyclotomic Hilbert series. J. Pure Appl. Algebra, 225(12):Paper No. 106764, 9, 2021.
- 4. Alessio Borzì, Andrés Herrera-Poyatos, and Pieter Moree. Cyclotomic numerical semigroup polynomials with at most two irreducible factors. Semigroup Forum, 103(3):812-828, 2021.
- 5. Alessio Borzì. Weierstrass sets on finite graphs. Electron. J. Combin., 29(1):Paper No. 1.4, 13, 2022.
- 6. Alessio Borzì and Ivan Martino. Set of independencies and tutte polynomial of matroids over a domain. arXiv preprint arXiv:1909.00332, 2019.
- 7. Alessio Borzí, Xiangying Chen, Harshit J Motwani, Lorenzo Venturello, and Martin Vodička. The leading coefficient of lascoux polynomials. arXiv preprint arXiv:2106.13104, 2021.

Talks

17/03/2022	Weierstrass sets on finite graphs, Online Algebraic Geometry Seminar, (virtually at) Nottingham University, UK
18/11/2021	Birational geometry of blow-ups of \mathbb{P}^2 , Oberseminar Geometrie, Universität Tübingen, Germany
01/11/2021	Tropical moduli spaces and toric embeddings, $\overline{M_{0,n}}$ seminar, (virtually at) University of Warwick, United Kingdom
22/04/2021	Graded algebras with cyclotomic Hilbert series, Graduate student meeting on Applied Algebra and Combinatorics, (virtually at) Københavns Universitet, Denmark
04/02/2021	Tropical methods in toric intersection theory, <i>Oberseminar Geometrie</i> , (virtually at) Universität Tübingen, Germany
20/11/2019	Cyclotomic Numerical Semigroups, Postgraduate Seminar, University of Warwick, United Kingdom
17/07/2019	Face poset and Grothendieck-Tutte polynomial of matroids over a domain, Algebra meets combinatorics in Neuchâtel, Université de Neuchâtel, Switzerland
25/03/2019	Arf property on quadratic quotients of the Rees algebra, <i>Problem solving seminar</i> , Stockholm University, Sweden
04/09/2018	A characterization of the Arf property for quadratic quotients of the Rees algebra,
, ,	International Meeting on Numerical Semigroups (IMNS), Cortona, Italy
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28/02-04/03/2022	International Meeting on Numerical Semigroups (IMNS), Cortona, Italy
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28/02-04/03/2022 03/12/2021	International Meeting on Numerical Semigroups (IMNS), Cortona, Italy Conferences OSCAR developer meeting - Tropical Geometry, TU Kaiserslautern, Germany Applied Algebra and Geometry Research Network, Online Conference Tropical Curves, Logarithmic Structures, and Enumerative Geometry,
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06/12/2019 Tropical Differential Algebra Workshop, Queen Mary University of Lon-

don, United Kingdom

02-04/12/2019	Einstein Workshop on Polytopes and Algebraic Geometry, Freie Universität Berlin, Germany
15–17/07/2019	Algebra meets combinatorics in Neuchâtel, Université de Neuchâtel, Switzerland
03-07/09/2018	International Meeting on Numerical Semigroups (IMNS), Cortona, Italy
31/05-04/06/2021	Encounter in Topology and Algebra (ET'nA), Scuola Superiore di Catania, Italy
	Teaching
Winter 2022	Teaching assistant , for the course MA453 Lie Algebras. Taught by Andrew Macpherson, <i>University of Warwick</i>
Fall 2021	Teaching assistant , for the course MA131 Analysis I. Taught by Daniel Ueltschi, <i>University of Warwick</i>
Winter 2021	Teaching assistant , for the course MA377 Rings and Modules. Taught by Samir Siksek, <i>University of Warwick</i>
Fall 2020	Teaching assistant , for the course MA4L7 Algebraic Curves. Taught by Diane Maclagan, <i>University of Warwick</i>
	Research visits
29/10-28/11/2021	Research period at the Universität Tübingen (Germany) in the combinatorial algebraic geometry group, under the supervision of Hannah Markwig.
07/03-05/06/2019	Research period at the KTH Royal Institute of Technology (Sweden) in the combinatorics group, under the supervision of Ivan Martino .
	Other professional activities
	Referee for the European Journal of Combinatorics.
	Member of the Associazione Alumni Scuola Superiore di Catania.
	Member of the London Mathematical Society (LMS).
	Outreach
02-03/10/2021	Speaker at the Simposio Matematico RIMSE 2021.
19–22/04/2018	Organizer for the <u>Training Course for Mathematical Olympiad</u> (fourth edition) at the Scuola Superiore di Catania.
20-23/04/2017	Organizer for the <u>Training Course for Mathematical Olympiad</u> (third edition) at the Scuola Superiore di Catania.
22–24/04/2016	Lecturer for the <u>Training Course for Mathematical Olympiad</u> (second edition) at the Scuola Superiore di Catania.