Alessio Borzì

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Homepage https://alessioborzi.github.io/

Current position



Since PhD student at the University of Warwick

September 30, 2019 Mathematics Institute
Advisor: Diane Maclagan

Education



July 29, 2019 Master's degree in Mathematics

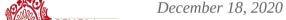
University of Catania, Summa cum laude

Advisor: Marco D'Anna

July 20, 2017 Bachelor's degree in Mathematics

University of Catania, Summa cum laude

Advisor: Marco D'Anna



December 18, 2020 Diploma of Scuola Superiore di Catania

Scuola Superiore di Catania, Summa cum laude

Advisor: Ivan Martino

Opponent: Alicia Dickenstein

Languages

Mother tongue Italian

Foreign languages **English** (IELTS 7.5)

Talks

February 4, 2021 Tropical methods in toric intersection theory, Oberseminar Geometrie, (virtually at) University of Tübingen, Germany

November 20, 2019 <u>Cyclotomic Numerical Semigroups</u>, Postgraduate Seminar, University of Warwick, UK

July 17, 2019 Face poset and Grothendieck-Tutte polynomial of matroids over a domain, Algebra meets combinatorics in Neuchatel, Neuchatel, Switzerland

March 25, *2019* Arf property on qudratic quotients of the Rees algebra, Problem solving seminar, Stockholm University, Sweden

September 3 - 7, 2018 A characterization of the Arf property for quadratic quotients of the Rees algebra, International Meeting on Numerical Semigroups (IMNS), Cortona, Italy

Attended conferences

February 15 – March 5, Research Encounters in Algebraic and Combinatorial Topics (REACT), 2021 Online conference

- June 8 July 24, 2020 Algebraic and Tropical Online Meetings (ATOM), Online conference
 - June 1-5, 2020 Warwick Macaulay 2 Workshop, University of Warwick, UK Online conference
 - December 6, 2019 <u>Tropical Differential Algebra Workshop</u>, Queen Mary University of London, UK
 - December 2-4, 2019 <u>Einstein Workshop on Polytopes and Algebraic Geometry</u>, Freie Universitat Berlin, Germany
 - July 15-17, 2019 Algebra meets combinatorics in Neuchatel, Neuchatel, Switzerland
- September 3 7, 2018 International Meeting on Numerical Semigroups (IMNS), Cortona, Italy
- May 31 June 4, 2017 Encounter in Topology and Algebra (ET'nA), Catania, Italy

Scientific production

- June 12, 2018 "A characterization of the Arf property for quadratic quotients of the Rees algebra". Journal of Algebra and Its Applications, arXiv:1806.04448.
- January 29, 2019 "Patterns on the numerical duplication by their admissibility degree".

 Numerical Semigroups Springer INdAM Series,
 arXiv:1901.10571
- September 1, 2019 "Set of independencies and Tutte polynomial of matroids over a domain", with Ivan Martino, arXiv:1909.00332
 - May 19, 2020 "Graded algebras with cyclotomic Hilbert series", with Alessio D'Alì, arXiv:2005.09708
- January 21, 2021 "Cyclotomic numerical semigroup polynomials with few irreducible factors,", with Andrés Herrera-Poyatos and Pieter Moree, arXiv:2101.08823

Teaching

- Winter 2021 Teaching assistant for the course <u>Rings and Modules</u>, University of Warwick
 - Fall 2020 Teaching assistant for the course <u>Algebraic Curves</u>, University of Warwick

Visits

March 7- June 5, 2019 Research period at the <u>KTH (Stockholm-Sweden)</u> under the supervision of <u>Ivan Martino</u>, supported by the <u>Scuola Superiore di Catania</u>.

Outreach

Second Edition: Lecturer (second edition) and organizer (third and fourth edition) of the April 22-24, 2016 Stage of Mathematical Olympiad at the Scuola Superiore di Catania

Third Edition: April 20-23, 2017 Fourth Edition: