

Alessio Borzi

Email ✉ Alessio.Borzi@warwick.ac.uk

Homepage <https://alessioborzi.github.io/>

Current position



Since September 30, 2019 PhD student at the University of Warwick
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 [Cyclotomic Numerical Semigroups](#), 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 quadratic 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 [Tropical Differential Algebra Workshop](#), Queen Mary University of London, UK

December 2-4, 2019 [Einstein Workshop on Polytopes and Algebraic Geometry](#), Freie Universität 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 [Rings and Modules](#), University of Warwick

Fall 2020 Teaching assistant for the course [Algebraic Curves](#), University of Warwick

Visits

March 7- June 5, 2019 Research period at the [KTH \(Stockholm-Sweden\)](#) under the supervision of [Ivan Martino](#), supported by the [Scuola Superiore di Catania](#).

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:

April 19-22, 2018