

Alessandro De Stefani

Associate Professor

EDUCATION AND TRAINING

5/2016

PhD in Mathematics

Advisor: Craig Huneke

University of Virginia, USA

12/2012

Master of Arts in Mathematics

University of Kansas, USA

PROFESSIONAL HISTORY

1/2021 – 12/2023

Ricercatore a tempo determinato - lettera b)

Università degli Studi di Genova

3/2019 – 12/2020

Ricercatore a tempo determinato - lettera a)

Università degli Studi di Genova

8/2017 – 2/2019

Postdoctoral Faculty Fellow

University of Nebraska, Lincoln, USA

8/2016 – 7/2017

Postdoctoral Fellow

Royal Institute of Technology (KTH), Sweden

ACADEMIC APPOINTMENTS

Since 2025

Vice-coordinator for Corso di Studi

CdL in Matematica LT, SMID and Matematica LM

Università degli Studi di Genova

Since 2020

Member of the PhD Board

Department of Mathematics

Università degli Studi di Genova

Since 2023

Member of the Teaching Committee for Corso di Studi

CdL in Matematica LT, SMID and Matematica LM

Università degli Studi di Genova

EXPERIENCE

MAIN PUBLICATIONS

- 1** Bounds on the number of generators of prime ideals (with Caviglia)
To appear in American Journal of Mathematics (2025)
- 2** Hilbert-Kunz multiplicity of powers of ideals in dimension two (with Masuti, Rossi & Verma)
To appear in Bulletin of the London Math. Society (2025)
- 3** Blowup algebras of determinantal ideals in prime characteristic (with Montaña & Núñez-Betancourt)
Journal of the London Math. Society 110 n.2 (2024)
- 4** The Eisenbud-Green-Harris conjecture for fast-growing degree sequences (with Caviglia)
Annali della SNS di Pisa, Classe di Scienze XXV, 1753-1762 (2024)
- 5** Stability and deformation of F-singularities (with Smirnov)
Israel Journal of Math. 264, 1-35 (2024)
- 6** A uniform Chevalley theorem for direct summands of polynomial rings in mixed characteristic (with Grifo & Jeffries)
Mathematische Zeitschrift 301, 4141-4151 (2022)
- 7** Cohomologically full rings (with Dao & Ma)
Int. Math. Research Notices 17, 13508-13545 (2021)
- 8** A Zariski-Nagata theorem for smooth Z-algebras (with Grifo & Jeffries)
J. Reine Angewandte Mathematik 761, 123-140 (2020)
- 9** Globalizing F-invariants (with Polstra & Yao)
Advances in Mathematics 350, 359-395 (2018)
- 10** On the existence of F-thresholds and related limits (with Núñez-Betancourt & Pérez)
Transactions of the AMS 370, 6629-6650 (2018)

MAIN INVITED TALKS (SINCE 2023)

- 6/2025** Modules & Rings: Recent Developments in Commutative Algebra
A conference in honor of Marilina Rossi
Università degli Studi di Genova
- 3/2025** Commutative algebra in mixed characteristic
A conference in honor of Bhargav Bhatt's Rowlee Lecture
University of Nebraska, Lincoln, USA

[3/2024](#) Commutative Algebra Seminar
SLMath (formerly MSRI) Berkeley, USA

[5/2023](#) Workshop on Commutative Algebra and Algebraic Geometry in Prime Characteristics
A conference in honor of Melvin Hochster and Craig Huneke
ICTP, Trieste

[3/2023](#) Resolutions in Local Algebra and Singularity Theory
MFO Oberwolfach, Germany

[1/2023](#) Written Geometry: Commutative Algebra
CIRM Luminy, France

**SCIENTIFIC RESPONSIBILITY FOR RESEARCH PROJECTS ACCEPTED FOR FUNDING ON THE BASIS OF
COMPETITIVE CALLS INVOLVING PEER REVIEW**

[2/2025-2/2027](#) PRIN 2022 “Unirationality, Hilbert schemes, and singularities”
Local coordinator for the Università di Genova (PI: Giovanni Staglianò)

**TEACHING OR RESEARCH POSITIONS (FELLOWSHIPS) AT FOREIGN UNIVERSITIES AND RESEARCH
INSTITUTES**

[6/2022](#) 75+80 = 155 years of commutative algebra
Three one-hour lectures withing a school dedicated to W. Bruns and J. Herzog
Universität Osnabrück, Germania

PRIZES AND ACCOLADES FOR SCIENTIFIC ACTIVITY, INCLUDING MEMBERSHIP OF ACADEMIES

[3/2024](#) Research member
Member within the program “Commutative Algebra”
SLMath (formerly MSRI) Berkeley, USA