

Personal information

Name Matteo Varbaro
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Date of birth June 18th, 1983
Place of birth Genoa, Italy
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Current and held positions

2020– **Full Professor**, *Department of Mathematics*, University of Genoa, Italy.
2017–2020 **Associate Professor**, *Department of Mathematics*, University of Genoa, Italy.
2014–2017 **B-type Researcher**, *Department of Mathematics*, University of Genoa, Italy.
2013–2014 **A-type Researcher**, *Department of Mathematics*, University of Genoa, Italy.
2011–2012 **Postdoctoral researcher**, *Department of Mathematics*, University of Genoa, Italy.
Supervisor: Aldo Conca

Education

2008–2010 **PhD student in Mathematics and Applications**, University of Genoa, Italy.
Advisor: Aldo Conca
2005–2007 **Master student in Mathematics**, University of Genoa, Italy.
2002–2005 **Bachelor student in Mathematics**, University of Genoa, Italy.

Visits

01–05/2024 **Research professor**, *Mathematical Science Research Institute*, Berkeley (CA), USA.
07-08/2017 **Visiting Professor**, *Department of Mathematics of the University of Utah*, Salt Lake City (UT), USA.
11–12/2015 **Short-term visitor**, *Max Planck Institut für Mathematik*, Bonn, Germany.
10/2015 **Research in Pairs**, *MFO*, Oberwolfach, Germany.
With Alexandru Constantinescu and Thomas Kahle
02/2015 **Research visitor**, *Centre de Recerca Matemàtica*, Barcelona, Spain.
08–12/2012 **Postdoctoral researcher**, *Mathematical Science Research Institute*, Berkeley (CA), USA.
Mentor: Anurag K. Singh
07/2012 **Research in Pairs**, *CIRM*, Trento, Italy.
With Alexandru Constantinescu and Thomas Kahle
05–06/2011 **Visit as a Postdoc funded by a Vigoni Project**, University of Osnabrück, Germany.
04–07/2009 **Visit as a PhD student funded by a Vigoni Project**, University of Osnabrück, Germany.
Supervisor: Winfried Bruns

Grants, awards and prizes

2022–2024 **Grant: PI of a “PRIN”**, *Proj. n. 2020355B8Y*, Funded by MUR, Amount: 345.920 €.
2018 **Premio Galilei giovani**, Rotary, Distretto 2032.

- 2016–2017 **Grant: PI on the Italian side of a “MIUR-DAAD Joint Mobility Program”,** *Proj. n. 57267452*, Funded by DAAD-MIUR, Amount: ~ 19.000 €.
- 2014 **Grant: PI of the P.R.A. “Coomologia étale e risoluzioni di ideali monomial”,** Funded by the University of Genoa, Amount: ~ 4.000 €.
- 2013 **Grant: PI of the P.R.A. “Proprietà algebriche delle matroidi”,** Funded by the University of Genoa, Amount: ~ 4.000 €.
- 2005–2007 **Fellowship for master students in Mathematics,** *INdAM*, Italy.
- 2002–2005 **Fellowship for bachelor students in Mathematics,** *INdAM*, Italy.

Dissemination

- 2025 **2 talks (1 in USA, 1 in Vietnam):**
 January: Talk at the workshop “Symmetries and Singularities in Texas”, Texas A&M, College Station, Texas (USA)
 July: Talk at the “International conference on Commutative Algebra dedicated to the memory of Jürgen Herzog”, VIASM, Hanoi (Vietnam)
- 2024 **1 talk in USA:**
 May: Colloquium Lecture at MSRI/SLMath, Berkeley, California (USA)
- 2023 **3 talks (1 in France and 2 in Italy),** for example.
 January: Talk at the workshop “Written Geometry: Commutative Algebra”, CIRM, Luminy (France)
 May: Talk at the “Workshop on Comutative Algebra and Algebraic Geometry in Prime Characteristic” ICTP, Trieste (Italy)
- 2022 **3 talks (1 in Germany, 1 in France and 1 in Poland),** for example.
 June: Talk at the workshop “75+80=155 years of Commutative Algebra”, Universität Osnabrück (Germany)
 December: Talk at the “AGATES Workshop: Deformation theory” IMPAN, Warsaw (Poland)
- 2021 **4 talks (4 webinars),** for example.
 January: Talk at the Oberseminar “Reelle Geometrie und Algebra”, Universität Konstanz (Happened virtually)
 August: Talk at “SIAM Conference on Applied Algebraic Geometry” within the special session Commutative algebra and its applications (Happened virtually)
- 2020 **3 talks (1 in U.S.A and 2 webinars),** for example.
 February: Talk at the “Combinatorics seminar”, University of Miami (Florida) U.S.A.
 June: Talk at the “Fellowship of the ring seminar”, MSRI, (Happened virtually).
- 2019 **5 talks (3 in Italy, 1 in England, Germany),** for example.
 February: Talk at the “Singularities and Homological Aspects of Commutative Algebra”, MFO Oberwolfach (Germany)
 September: Semi-plenary talk at “Congresso UMI 2019”, Pavia (Italy)
- 2018 **3 talks (1 in Germany, Canada, Poland),** for example.
 June: Talk at the “New Trends in Syzygies” workshop, Banff (Canada)
- 2017 **1 talk (in Italy):**
 June: Talk at the workshop “ET’nA”, Scuola Superiore di Catania, Italy
- 2016 **6 talks (2 in Italy, 1 in Switzerland, U.S.A., Japan, Germany),** for example.
 November: Talk at “38th Symposium on Commutative Algebra in Japan”, IPC Hayama, Japan
 December: Talk at the “Asymptotic Phenomena in Local Algebra and Singularity Theory”, MFO Oberwolfach (Germany)
- 2015 **10 talks (4 in Germany, 1 in Spain, Switzerland, Austria, Portugal, South Korea, Italy),** for example.
 December: Talk at the “MPI-Oberseminar”, Max Planck Institut für Mathematik, Bonn, Germany
 August: Talk at “Syzygies in Algebra and Geometry”, Busan, South Korea
 February: Talk at “Homological Bonds between Commutative Algebra and Representation Theory”, Universitat de Barcelona, Spain
- 2014 **3 talks (2 in Italy, 1 in Spain),** for example.
 October: Giornate di Geometria Algebraica e Argomenti Correlati, Castello del Valentino, Torino, Italy

- 2013 **9 talks (5 in Italy, 1 in France, Germany, England, Vietnam)**, for example.
 November: Talk at the “Commutative Algebra Seminar”, University of Sheffield, England
 July: Talk at: “Algebre commutative et ses interations avec la geometrie algebrique”, CIRM, Luminy, France
 July: Talk at the workshop celebrating the program “Kombinatorische Methoden in Algebra und Topologie”, Universität Osnabrück, Germany
- 2012 **8 talks (4 in Italy, 4 in U.S.A.)**, for example.
 December: Talk at “Combinatorial Commutative Algebra and its Applications”, MSRI, Berkeley (California), U.S.A.
 June: Talk at “Commutative Algebra and Related Topics”, Università di Genova, Italy
 January: Talk at “Seminario di Geometria”, Università di Firenze, Italy
- 2011 **3 talks (2 in Germany, 1 in Switzerland)**, for example.
 June: Talk at “Discrete Geometry Seminar”, Freie Universität Berlin, Germany
- 2010 **2 talks (1 in Italy, 1 in France)**, for example.
 November: Talk at: “Algebre commutative et ses interations avec la geometrie algebrique”, CIRM, Luminy, France
- 2009 **2 talks (1 in Italy, 1 in Germany)**, for example.
 June: Talk at “Kollegseminar Kombinatorische Strukturen in Algebra und Topologie”, Universität Osnabrück, Germany
- 2008 **3 talks (2 in Italy, 1 in France)**, for example.
 October: Talk at: “Algebre commutative et ses interations avec la geometrie algebrique”, CIRM, Luminy, France

Supervising students and mentoring postdocs

Postdocs	Anjan Gupta (2016-2018), Lisa Seccia (2021–).
PhD students	Michela Di Marca (2014-2017), Lisa Seccia (2017-2021), Hongmiao Yu (2018-2022, Francesco Bisio (2024–)).
Master students	Martina Rovelli (2012), Gabriele Balletti (2014), Hongmiao Yu (2018), Giulia Gaggero (2020), Sara Prunotto (2021), Luca Renzi (2021), Elia Orsi (2022), Francesco Bisio (2024).
Bachelor students	Davide Firato (2017), Giulia Gaggero (2018), Paolo Pesce (2021), Lorenzo Ferraris (2021), Gabriel Russo (2022).

Teaching

University of Genoa

- 2023 – **Co-tenured of the course “Algebra 3* for bachelor students in Mathematics, University of Genoa, Italy.**
- 2021 – 2023 **Co-tenured of the course “Algebra Lineare and Analisi Numerica* for bachelor students in Computer Science, University of Genoa, Italy.**
- 2018 – **Co-coordinator of the reading course on Commutative Algebra for master and PhD students in Mathematics, University of Genoa, Italy.**
- 2017 – 2023 **Tenured of the course “Algebra 2” for bachelor students in Mathematics, University of Genoa, Italy.**
- 2015 – 2017 **Assistant of the course “Algebra 2” for bachelor students in Mathematics, University of Genoa, Italy.**
- 2013 – 2023 **Tenured of the course “Algebra Commutativa 2” (formerly called) “Algebra Superiore 2” for master students in Mathematics, University of Genoa, Italy.**
- 2025 – **Tenured of the course “Algebra Commutativa 2” (formerly called) “Algebra Superiore 2” for master students in Mathematics, University of Genoa, Italy.**
- 2010, 2013 **Tenured of the course “Introduction to local cohomology” for master and PhD students in Mathematics, University of Genoa, Italy.**

International

- 07/2019 **Lectures at "CIME-CIRM Course on Recent Developments in Commutative Algebra"**, *Levico Terme*, Italy, with: Claudia Polini, Claudiu Raicu, Mark E. Walker.
- 06/2017 **Lectures at the workshop "ET'nA"**, *Scuola Superiore di Catania*, Italy, with Bruno Benedetti, Graham Denham, Alex Suciu.
- 01/2016 **Lectures at the "Borel seminar 2016: SM'ART"**, *Les Diablerets*, Switzerland, with Laura Anderson, Alex Fink, June Huh, Geordie Williamson.
- 07/2014 **Assistant of Aldo Conca, Srikanth Iyengar and Anurag Singh in the summer school for PhD students "Pragmatic"**, *Department of Mathematics*, University of Catania, Italy.
- 09/2012 **Tutorial sessions for the lectures by Holger Brenner at the "Joint Introductory Workshop: Cluster Algebras and Commutative Algebra"**, *MSRI*, Berkeley (California), USA.

Work as editor, reviewer and referee

- 2025 – **Editor of Mediterranean Journal of Mathematics**, *Springer Nature*.
- 2008 – **Referee for several mathematical journals**, for example "Inventiones Mathematicae", "Compositio Mathematica", "Transactions of the American Mathematical Society", "International Mathematics Research Notices", "Journal of the London Mathematical Society", "Algebra & Number Theory".
- 2012–2019 **Reviewer for Mathematical Reviews**.
- 2008–2012 **Reviewer for Zentralblatt MATH**.

Organization of scientific meetings

- 2025 **Organizer of the conference "Notions of Singularity in Different Characteristics"**, *BIRS*, Banff, Canada.
- 2025 **Organizer of the conference in honor of Marilina Rossi "Modules & Rings: Recent Developments in Commutative Algebra"**, *Department of Mathematics*, University of Genova, Italy.
- 2015 – **Organizer of the "GTM seminar: Some Topics in Commutative Algebra and Algebraic Geometry"**, a periodic meeting between the universities of Genoa, Milan and Turin, Italy.
- 2014 **Organizer of the "Meeting on Combinatorial Commutative Algebra" (MOCCA 2014)**, *Levico Terme*, Italy.
- 2013–2020, 2024– **Coordinator of the weekly "Algebra&Geometry Seminar"**, *Department of Mathematics*, University of Genova, Italy.

Institutional responsibilities

- 2024– **Member of the "Commissione a sostegno della Diversità, Equità e Inclusione"**, *Unione Matematica Italiana*.
- 2022– **Responsible of the research committee**, *Department of Mathematics*, University of Genova, Italy.
- 2017– **Responsible of the committee for the admission to the Master Degree program in Mathematics**, *Department of Mathematics*, University of Genova, Italy.
- 2016–2017 **Member of the selection-committee for the PhD program "Matematica e Applicazioni"**, *Department of Mathematics*, University of Genova, Italy.
- 2016–2022 **Member of the research committee**, *Department of Mathematics*, University of Genova, Italy.

2014– **Member of the boarding of the PhD program “Matematica e Applicazioni”**, *Department of Mathematics*, University of Genova, Italy.