Alessandro ONETO

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Short CV — last update: November 17, 2026

1. Academic Positions

2026 – present	**Associate Professor** of Algebra (MATH-02/A), Università di Genova, Italy
2023 – 2025	**Associate Professor** of Geometry (MATH-02/B), Università di Trento, Italy
2020 – 2023	**Assistant Professor** (RTD-b, MATH-02/B), Università di Trento, Italy
2019 – 2020	**Humboldt Postdoctoral Fellow**, OVGU Magdeburg, Germany (mentor: T. Kahle)
2018 – 2019	**BGSMath Postdoctoral Fellow**, UPC Barcelona, Spain (mentor: M. Casanellas)
2016 – 2017	**Postdoctoral Researcher**, INRIA Méditerranée, Université Côte d'Azur, France (mentor: B. Mourrain)

2. Education and Qualifications

2016	**Ph.D. in Mathematics**, Stockholm University, Sweden (supervisors: B. Shapiro, E. Carlini)
2012 / 2010	**M.Sc.** and **B.Sc. in Mathematics**, Università di Genova, Italy
2024	**Italian Scientific Habilitation to Full Professor** in Geometry and Algebra (01/A2), valid until 2035
2020	**Catalan Habilitation to Lecturer** (Professor Lector), AQU Catalunya

3. Research

Interests	Algebraic geometry and commutative algebra; tensor decompositions and ranks (secant varieties, Waring, strength and Hadamard decompositions); applications to algebraic statistics, optimization and data analysis, topological data analysis.
Output	**27 research papers** in international journals, **2 book chapters**, **3 surveys**, **3 submitted preprints**. **52 talks**: 20 invited conference talks, 8 contributed talks, 24 seminars.

Selected publications (labels as in the full CV)

P27	D. Antolini, G. Montúfar, A. Oneto, **Hadamard ranks of algebraic varieties**, *SIAM J. Appl. Algebra Geom., accepted (2026)*
P26	A. Oneto, N. Vannieuwenhoven, **Hadamard-Hitchcock decompositions: identifiability and computation**, *Math. Comp. 95 (2026)*
P22	H. Abo, M. C. Brambilla, F. Galuppi, A. Oneto, **Non-defectivity of Segre-Veronese varieties**, *Proc. Amer. Math. Soc. Ser. B 11 (2024)*
P21	A. Bernardi, A. Oneto, D. Taufer, **On schemes evinced by generalized additive decompositions and their regularity**, *J. Math. Pures Appl. 188 (2024)*
P20	A. Taveira Blomenhofer, A. Casarotti, M. Michałek, A. Oneto, **Identifiability for mixtures of centered Gaussians and sums of powers of quadratics**, *Bull. Lond. Math. Soc. 55 (2023)*
P19	E. Ballico, A. Bik, A. Oneto, E. Ventura, **Strength and slice rank of forms are generically equal**, *Israel J. Math. 254 (2023)*
P18	F. Galuppi, A. Oneto, **Secant non-defectivity via collisions of fat points**, *Adv. Math. 409 (2022)*
P14	A. Bik, J. Draisma, A. Oneto, E. Ventura, **The monic rank**, *Math. Comp. 89 (2020)*
P5	E. Carlini, M. V. Catalisano, A. Oneto, **Waring loci and the Strassen conjecture**, *Adv. Math. 314 (2017)*
P4	E. Carlini, M. Kummer, A. Oneto, **On the real rank of monomials**, *Math. Z. 286 (2017)*
P3	M. Akhtar, T. Coates, A. Corti, L. Heuberger, A. Kasprzyk, A. Oneto, A. Petracci, T. Prince, K. Tveiten, **Mirror symmetry and the classification of orbifold del Pezzo surfaces**, *Proc. Amer. Math. Soc. 144 (2016)*

Grants and fellowships

2025 – 2027 **Principal Investigator**, PRIN 2022 project *Applied Algebraic Geometry of Tensors* (MUR, ~€208k; 4 local units)

2024 – 2027 **Member**, Marie Skłodowska-Curie Doctoral Network *TENORS* (Horizon Europe, 11 institutions)

2023 – 2024 **Member**, PRIN 2022 project *Birational Geometry of Moduli Spaces and Special Varieties*

2022 **Funded PhD position** (NRRP Doctoral Scholarships, NextGenerationEU), with L. A. Bianchi

2017 **Humboldt Research Fellowship** (~€64k) and **BGSMath Junior Fellowship** (~€36k)

Further Travel and visiting grants (Simons Foundation Junior Leader at IMPAN 2022, SIAM Early Career Travel Award 2019, CIRM Research in Pairs 2019, Swedish foundations 2014–2016); funding for conferences, schools, teaching innovation and outreach (CIRM, EMS, Lie-Størmer Center, U. Trento, INdAM).

Selected invited talks

Metric Algebraic Geometry (Mittag-Leffler Institute, 2026); BM60 (MPI Leipzig, 2024); TAGA 2024 (CSU Fort Collins); Joint Mathematics Meetings 2023 (Boston); Joint Meeting AMS-EMS-SFM 2022 (Grenoble); SIAM Conference on Applied Algebraic Geometry (2017, 2019, 2021, 2023).

4. Teaching and Supervision

Genova (2026 – present) Linear Algebra and Analytic Geometry; Coding Theory; Geometry (Management Engineering); mini-course on Tensor Representations and Decompositions.

Trento (2021 – 2025) Algebraic Geometry I; Geometry and Topology for Data Analysis; Geometry and Linear Algebra (Industrial Engineering).

Earlier Abstract Algebra (Stockholm U., 2015 – 2016); mini-course at the thematic semester AGATES (Warsaw, 2022); teaching assistant at Stockholm U., Monash U., U. Genova.

Supervision **3 PhD students** (co-supervised, U. Trento): D. Antolini, O. Reig Fité, C. Vielmo. **13 Master theses** (11 completed, 2 ongoing), **4 Bachelor theses**, 1 research internship, on topics ranging from tensor decompositions to topological data analysis and mathematics education.

5. Organisation, Outreach and Service

Events INABAG Conference 2025 (Trento) and 2026 (Siena, with INABAG School); summer schools TiME 2019 (Levico Terme) and TiME 2025 (Tromsø); XXIII Congresso SISM 2024 (Trento); Tensors and IPPI workshops 2018 (Torino); 4 masterclasses at TensorDec Lab (Trento, 2021 – 2024); special sessions at SIAM AG 2019, 2021, 2023.

Seminars Organised series: Math Colloquium (2023 – 2025), What is... Seminar (2020 – 2022), Comunicazione della Matematica (U. Trento); Problem Solving Seminar (Stockholm U., 2014 – 2016).

Outreach Laboratories for schools and the general public at Festival della Scienza di Genova (2022, 2024, 2025), BergamoScienza (2023, 2025), EDUCA Rovereto (2023); INdAM-funded dissemination protocol between University, School and Society (U. Trento); events in Barcelona (European Researchers' Night 2018; International Day of Women and Girls in Science 2019).

Institutional Academic Board of the PhD program in Mathematics, U. Genova (2026 – present) and U. Trento (2020 – 2026); Osservatorio Dottorati UMI (2021 – present); Commissione Paritetica and hiring committees (postdoc, PhD), Dept. of Mathematics, U. Trento.

Service Referee for 16 international journals (e.g. Algebra & Number Theory, Crelle's Journal, Geometry & Topology, Selecta Mathematica); reviewer for Mathematical Reviews (2015 – present) and zbMATH (2019 – present); co-administrator of the UMI website (2021 – present). Member of EMS, SIAM, UMI.

I authorise the processing of personal data contained within my CV, according to GDPR (EU) 2016/679, Article 6.1(a).
Genova, November 17, 2026 — Alessandro Oneto