

Alessandro ONETO

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1. Work Experience

- 2026.01 – current** **Associate Professor** (MATH-02/A: Algebra)
Università di Genova, Italy
Sector: MATH-02/B - Algebra
- 2023.04 – 2025.12** **Associate Professor** (MATH-02/B: Geometry)
Università di Trento, Italy
Sector: MATH-02/B - Geometry
- 2020.04 – 2023.03** **Assistant Professor RTD-b**
Università di Trento, Italy
Sector: MATH-02/B - Geometry
- 2019.04 – 2020.03** **Humboldt Postdoctoral Fellow**
Otto-von-Guericke-Universität Magdeburg, Germany
mentor: Thomas Kahle
- 2018.01 – 2019.03** **BGSMath Postdoctoral Fellow**
Universitat Politecnica de Catalunya Barcelona, Spain
mentor: Marta Casanellas
- 2016.11 – 2017.12** **Postdoctoral Researcher**
INRIA Méditerranée at Université Côte d'Azur
mentor: Bernard Mourrain

2. Education

- 2012.08 – 2016.07** **Ph.D. in Mathematics**
Stockholm U., Sweden
supervisors: Boris Shapiro, Enrico Carlini (external)
- 2010.09 – 2012.07** **M.Sc. in Mathematics**
Università di Genova, Italy
supervisor: Maria Virginia Catalisano, Enrico Carlini (external)
- 2007.09 – 2010.07** **B.Sc. in Mathematics**
Università di Genova, Italy
supervisor: Anthony Vito Geramita

3. Academic Qualifications

- 2024.08 – 2035.08** **Italian Scientific Habilitation to Full Professor**
in Geometry and Algebra (01/A2)
by MUR (Ministero dell'Università e della Ricerca, Italia)
- 2020.04 – lifetime** **Catalan Habilitation to Lecturer**
Informe favorable per a Professorat Lector
By AQU-Agència per a la Qualità del Sistema Universitari de Catalunya

4. Research

4.1 Publications and Preprints

4.1.1 Research Papers

- P26** **Hadamard-Hitchcock Decompositions: identifiability and computation**
A. Oneto, N. Vannieuwenhoven
Mathematics of Computation, *to appear*, 2026
- P25** **Algebraic surfaces as Hadamard products of curves**
D. Antolini, E. Ballico, A. Oneto
Journal of Algebra, 697:725-735, 2026
- P24** **Postulation for 2-superfat points in the plane**
S. Canino, M. V. Catalisano, A. Gimigliano, M. Idà
Annali dell'Università di Ferrara, 71(4):59, 2025
- P23** **Decomposition Loci of Tensors**
A. Bernardi, A. Oneto, P. Santarsiero
Journal of Symbolic Computation (Special Issue: MEGA 2024), 131:102451, 2025
- P22** **Non-defectivity of Segre-Veronese varieties**
H. Abo, M. C. Brambilla, F. Galuppi, A. Oneto
Proceedings of American Mathematical Society Series B, 11:589-602, 2024
- P21** **On schemes evinced by generalized additive decompositions and their regularity**
A. Bernardi, A. Oneto, D. Taufer
Journal des Mathématiques Pures et Appliquées, 188:446-469, 2024
- P20** **Identifiability for mixtures of centered Gaussians and sums of powers of quadratics**
A. Taveira Blomenhover, A. Casarotti, M. Michałek, A. Oneto
Bulletin of London Mathematical Society 55(5):2407-2424, 2023
- P19** **Strength and slice rank of forms are generically equal**
A. Bik, E. Ballico, A. Oneto, E. Ventura
Israel Journal of Mathematics, 254(1):275-291, 2023
- P18** **Secant non-defectivity via collisions of fat points**
F. Galuppi, A. Oneto
Advances in Mathematics, 409(B):108657, 2022
- P17** **On the strength of general polynomials**
with Arthur Bik
Linear and Multilinear Algebra, 70(21):6114-6140 (2022)
- P16** **The set of forms with bounded strength is not closed**
A. Bik, E. Ballico, A. Oneto, E. Ventura
Comptes Rendus - Série Mathématique, 360:371-380, 2022
- P15** **Geometric conditions for submultiplicativity of rank and border rank**
E. Ballico, A. Bernardi, F. Gesmundo, A. Oneto, E. Ventura
Annali di Matematica Pura e Applicata, 200:187-210, 2021
- P14** **The monic rank**
A. Bik, J. Draisma, A. Oneto, E. Ventura
Mathematics of Computations, 89:601-632, 2020
- P13** **On minimal decompositions of low rank symmetric polynomials**
B. Mourrain, A. Oneto
Linear Algebra and its Applications, 607:347-377, 2020
- P12** **On the Hilbert function of generic fat points in $\mathbb{P}^1 \times \mathbb{P}^1$**
E. Carlini, M. V. Catalisano, A. Oneto
Michigan Mathematical Journal, 69(3):601-632, 2020

- P11 Tangential varieties of Segre-Veronese surfaces are never defective**
M. V. Catalisano and A. Oneto
Revista Matematica Complutense, 33(1):295–324, 2020
- P10 Unexpected curves arising from special line arrangements**
M. Di Marca, G. Malara and A. Oneto
Journal of Algebraic Combinatorics, 51:171–194, 2020
- P9 Partially symmetric variants of Comon’s problem via simultaneous rank**
F. Gesmundo, A. Oneto and E. Ventura
SIAM Journal of Matrix Analysis and Application 40(4):1453-1477, 2019
- P8 On generic and maximal k-rank of binary forms**
S. Lundqvist, A. Oneto, B. Reznick, and B. Shapiro
Journal of Pure and Applied Algebra, 223(5):2062–2079, 2019
- P7 On the quantum periods of del Pezzo surfaces with $1/3(1,1)$ singularities**
A. Oneto, A. Petracci
Advances in Geometry 18(3):303-336, 2018
- P6 Waring-like decompositions of polynomials, 1**
M.V. Catalisano, L. Chiantini, A.V. Geramita, A. Oneto
Linear Algebra and its Applications, 533:311–325, 2017
- P5 Waring loci and the Strassen conjecture**
E. Carlini, M.V. Catalisano, A. Oneto
Advances in Mathematics, 314:630–662, 2017
- P4 On the real rank of monomials**
E. Carlini, M. Kummer, A. Oneto
Mathematische Zeitschrift, 286(1):571–577, 2017
- P3 Mirror symmetry and the classification of orbifold del Pezzo surfaces**
M. Akhtar, T. Coates, A. Corti, L. Heuberger, A. Kasprzyk, A. Oneto, A. Petracci, T. Prince, K. Tveiten
Proceedings of American Mathematical Society, 144(2):513–527, 2016
- P2 On a class of power ideals**
J. Backelin, A. Oneto
Journal of Pure and Applied Algebra, 219(8):3158-3180, 2015
- P1 Monomials as sums of k-th powers of forms**
E. Carlini, A. Oneto
Communications in Algebra, 43(2):650-658, 2015

4.1.2 Book Chapters

- C2 Waring decompositions of special ternary forms with different Hilbert functions**
E. Angelini, L. Chiantini
Deformation of Artinian algebras and Jordan type, AMS Series: AMS Contemporary Mathematics, 2024
- C1 Minkowski sums and Hadamard products of algebraic varieties**
N. Friedenberg, A. Oneto, R. Williams
Combinatorial Algebraic Geometry Selected papers from the 2016 Apprenticeship Program, AMS Series: Fields Institute Communications, 2017

4.1.3 Survey

- S3 Ranks of tensors: geometry and applications**
A. Oneto, E. Ventura
Bollettino dell’Unione Matematica Italiana, special issue: A Projective Geometry Landscape, 18(3):751-778, 2025

- S2** **The hitchhiker guide to: secant varieties and tensor decompositions**
A. Bernardi, E. Carlini, M.V. Catalisano, A. Gimigliano, A. Oneto
Mathematics, special issue: Decomposition of Tensors, 6(12):314, 2018
- S1** **Algebraic stories from one ad from the other pocket**
R. Fröberg, S. Lundqvist, A. Oneto, B. Shapiro
Arnold Journal of Mathematics, 4(2):137-160, 2018

4.1.4 Submitted Pre-Prints

- PP4** **On Waring rank jumps via critical rank-one approximations**
P. Santarsiero, E. Teixeira Turatti
arXiv:2605.04695, 2026
- PP3** **Finiteness of Hadamard ranks**
D. Antolini, E. Ballico
arXiv:2603.29955, 2026
- PP2** **Hadamard ranks of algebraic varieties**
D. Antolini, G. Montúfar, A. Oneto
arXiv:2510.05231, 2025
- PP1** **Polynomials of small slice rank and strength**
C. Flavi, F. Gesmundo, A. Oneto, E. Ventura
arXiv:2509.12322, 2025

4.2 Communications

4.2.1 at Conferences (invited)

- 2026** **TENORS Doctoral Days**
U. Firenze, Italy
Metric Algebraic Geometry
Mittag-Löffler Institute, Djursholm, Sweden
- 2025** **Gröbner free methods and their applications**
U. Bari, Italy
- 2024** **BM60: a workshop for Bernard Mourrain's 60th birthday**
Max Planck Institute, Leipzig, Germany
TAGA2024: Tensors Algebra-Geometry-Applications
CSU Fort Collins, Colorado, USA
Rigidity in Action, workshop within Special Semester on Rigidity and Flexibility
RICAM, Linz, Austria
- 2023** **Commutative Algebra @ DIMA**, in honor of Maria Evelina Rossi
U. Genova, Italy
SIAM Conference on Applied Algebraic Geometry, session "Tensors in Applications"
TU Eindhoven, The Netherlands
NESS2023 - 36th New England Statistics Symposium
Boston U., USA - hybrid
Commutative Algebra Towards Applications
Politecnico di Torino, Italy
Joint Mathematics Meeting 2023, session "Applications of Tensors in Computer Science"
Boston, USA
- 2022** **Joint Meeting AMS-EMS-SFM**, session "Deformation of Artinian algebra and Jordan type"
U. Grenoble, France
Ypatia Conference 2022
École Française Rome, Italy

- 2021** **2nd Computer Science Workshop**
U. Genova, Italy
SIAM Conference on Applied Algebraic Geometry, session “Commutative Algebra and its Applications”
Texas A&M U., College Station, Texas, USA - online
- 2019** **Congresso UMI**, session “Multilinear Algebra, Algebraic Geometry and Applications”
U. Pavia, Italy
SIAM Conference on Applied Algebraic Geometry, session “The algebra and geometry of tensors, I”
U. Bern, Switzerland
Workshop for Young Researchers in Mathematics
U. Bucharest, Romania
- 2017** **Commutative Algebra, Syzygies and Singularities**
U. Nice, France
SIAM Conference on Applied Algebraic Geometry, session “Decomposition and Identifiability of real and complex tensors”
Georgia Tech, Atlanta, Georgia, USA

4.2.2 at Conferences (contributed)

- 2021** **MEGA 2021**
U. Tromsø, Norway - online
- 2020** **Algebraic Geometry: varieties, polyhedra and computations**
Zuse Institute, Berlin, Germany
- 2017** **Summer School (and Workshop) on Syzygies**
FBK, Trento, Italy
- 2015** **Syzygies in Algebra and Geometry**
Haeundae, South Korea
Summer School on Real Algebraic Geometry and Optimisation
Georgia Tech, Atlanta, Georgia, USA
- 2014** **An interdisciplinary approach to tensor decomposition**
FBK, Trento, Italy
CMS Winter Meeting
Hamilton, Ontario, Canada
Traumatic Workshop: Birational geometry and Fano Varieties
Imperial College, London, UK

4.2.3 at Seminars

- 2022** **Seminari di Geometria Algebrica**, Politecnico di Milano, Italy
Applied Algebraic Geometry Seminar, U. Bologna, Italy
Seminario di Algebra e Geometria, U. di Genova, Italy
IMPANGA, IMPAN Warsaw, Poland, online
- 2021** **Problem Solving Seminar**, Stockholm U., Sweden, online
- 2020** **Tensor Talk**, U. Copenhagen, Denmark, online
- 2019** **Problem Solving Seminar**, Stockholm U., Sweden
Max Plank Institute MiS, Leipzig, Germany
- 2018** **Seminari di Geometria Algebrica**, Politecnico di Milano, Italy
Discrete Math Seminar, U. Bern, Switzerland
Seminario congiunto Matematica-FBK-CIRM, U. di Trento, Italy
Seminario di Algebra e Geometria, U. di Genova, Italy
Seminari de Geometria Algebraica, U. Barcelona, Spain

- 2017 **Séminaire d'algèbre, topologie et géométrie**, U. Nice, France
Algebra and Geometry Seminar, KTH, Sweden
Applied Algebraic Geometry Seminar, BCAM Bilbao, Spain
- 2016 **Seminar in Algebra and Geometry**, U. Oslo, Norway
Algebraic Geometry and Combinatorics, U. Freiburg, Switzerland
Oberseminar des IAG, OVGU Magdeburg, Germany
- 2015 **Quantum Information Seminars**, Tech U. Sydney, Australia
Seminario di Algebra e Geometria, U. Genova, Italy
- 2014 **Algebra & Geometry Seminar**, Uppsala U., Sweden
Junior Geometry Seminar, Imperial College, London, UK

4.3 Grants for research activities

4.3.1 Projects Grants (as Principal Investigator)

- 2025 **Principal Investigator PRIN2022SC “Applied Algebraic Geometry of Tensors”** (~€208k)
 by MUR - Ministry of University and Research (Italy)
 within the scope of the Call for Proposals relating to the scrolling of the final rankings of the call for proposals PRIN2022. Other responsables of local units: Emanuele Ventura (coPI, Poli. di Torino), Maria Chiara Brambilla (U. Poli. delle Marche), Cristiano Bocci (U. Siena)
 Period: 2025.02 – 2027.01
- 2022 **Accepted Proposal for a PhD position**
 by MUR (Italy) within the NRRP Doctoral Scholarships for Public Administration financed through NextGenerationEU program
 proposed together with L. A. Bianchi (U. Trento)
 Topic: Statistics Education via softwares and digital environments
 Started in November 2022

4.3.2 Individual Fellowships

- 2017 **Research Fellowship** (24 months, ~€64k)
 by Alexander von Humboldt Foundation
 used from April 2019 to March 2020 at OVGU Magdeburg
- 2017 **BGSMath Junior Fellowship** (18 months, ~€36k)
 by Barcelona Graduate School of Mathematics
 used from January 2018 to March 2019 at UPC Barcelona
 funded through the Maria de Matzu Unit of Excellence Award (2015-2019)

4.3.3 Projects Grants (as participant)

- 2024 **Member of Marie Skłodowska-Curie PhD Network “TENORS”**
 PI: Bernard Mourrain (Inria Sophia Antipolis). Responsible of local unit: Alessandra Bernardi (U. Trento). European network offering 15 co-tutored doctoral positions among 11 institutions supported by the European Commission under the HORIZON – MSCA - 2023 - DN-JD project
 Topic: Tensor modelling, geometry and optimisation
 Period 2024.01 – 2027.12
- 2023 **Member of local unit PRIN2022 “Birational Geometry of Moduli spaces and special varieties”**
 PI: Alex Massarenti (U. Ferrara)
 Responsible of local units: Elisa Postinghel (U. Trento) Francesco Russo (U. Catania)
 Period: 2023.09 – 2025.08 (member until 2024.10)

4.3.4 Travel Grants

- 2022 **Financial Support as Junior Leader**
 at IMPAN (Warsaw, Poland) by Simons Foundation
 to participate to the thematic semester AGATES and teach a mini-course (5 hours) on “Tensors in Classical Algebraic Geometry”

- 2019 SIAM Early Career Travel Award**
by SIAM - Society for Industrial and Applied Mathematics
to attend SIAM Conference in Applied Algebraic Geometry (Bern, Jul 2019)
Research in Pairs
at CIRM (Centro Internazionale di Ricerca Matematica, Trento, Italy)
4 weeks - with F. Gesmundo, E. Ventura
- 2016 Stiftelsen GS Magnuson Foundation**
by Kungliga Vetenskapsakademie (Sweden)
C.F. Liljevalch Resedtipendie
by Stockholm U. - Faculty of Science (Sweden)
- 2015 Stiftelsen GS Magnuson Foundation**
by Kungliga Vetenskapsakademie (Sweden)
- 2014 Christer Lech stipendium**
by Christer Lech Foundation (Sweden)
Jubileumsfond
by Knut and Alice Wallenberg Foundation (Sweden)
Donation stipendium
by Stockholm U. - Faculty of Science (Sweden)

4.3.5 Other Financial Supports

- 2025 Financial Support for INABAG Conference 2025**
by CIRM (Centro Internazionale di Ricerca Matematica, Trento, Italy)
with Elena Guardo, Pierpaola Santarsiero
Trento, Italy, 2025.06.30 – 2025.07.02
Financial Support for Summer School TiME 2025: Invariant Theory
by Lie-Strømmer Center, Norway
with Kathlen Kohn, Pierpaola Santarsiero, Ettore Teixeira Turatti
Tromsø, Norway, 2025.05.26 – 2025.05.30
- 2022 Financial Support for Teaching Innovation Project**
by FormID (Teaching and Learning Center), U. Trento
topic: Formative assessment in a Linear Algebra course for engineers
- 2021 Financial Support for Outreach Activities**
by INdAM - Istituto Nazionale di Alta Matematica, Italy
with Marco Andreatta, Agnese Del Zozzo, Francesca Fiore, Alberto Montresor
topic: implementation of a dissemination protocol between University, School and Society
- 2019 Financial Support for EMS Summer School TiME 2019: Curves and Surfaces**
by EMS (European Mathematical Society) and
by CIRM (Centro Internazionale di Ricerca Matematica, Trento, Italy)
with Matteo Gallet, Kathlen Kohn, Marta Panizzut, Emanuele Ventura
Levico Terme, Italy, 2019.09.02 – 2019.09.06

5. Teaching and Mentoring

5.1 Teaching

5.1.1 at International Events

- 2022 Tensors and secant varieties in classical algebraic geometry**
Mini-course at introductory school for thematic semester AGATES (5 hours)
Warsaw U., Poland

5.1.2 as Instructor

at University of Genova

- 2026 – **Teoria dei Codici** (*Coding Theory*), with Emanuela De Negri
current for master students in Mathematics
- 2026 – **Geometria** (*Geometry*), with Arvid Perego
current for bachelor students in Management Engineering

at University of Trento

- 2023 – **Algebraic Geometry I**, with Edoardo Ballico
2025 for graduate and master students in Mathematics
- 2021 – **Geometry and Topology for Data Analysis**
2025 for graduate and master students in Mathematics
- 2021 – **Geometria e Algebra Lineare** (*Geometry and Linear Algebra*)
2025 for bachelor students in Industrial Engineering

at Stockholm University

- 2015 – **Mathematik III: Abstract Algebra**
2016 for bachelor students in Mathematics

5.1.3 as Teaching Assistant

at Monash University

- 2015 **Algebra and Number Theory**
grading, instructor: Enrico Carlini
for bachelor students in Mathematics

at Stockholm University

- 2014 **Extraseminars: Abel's Theorem in Exercises and Solutions**
lecturing and tutoring, instructor: Boris Shapiro
for best 1st year students in Mathematics

at University of Genoa

- 2011 **Geometria I** (*Geometry I*)
exercise sessions and tutoring - instructor: Maria Virginia Catalisano
for bachelor students in Civil Engineering

5.2 Mentoring

5.2.1 Graduate Students

at University of Trento

- since **Dario Antolini**
2023 co-supervised with Elisa Postinghel (U. Trento)
- since **Carlotta Vielmo**
2022 co-supervised with Luigi Amedeo Bianchi (U. Trento), Mirko Maracci (U. Pisa)

5.2.2 Internships

at University of Trento

- 2021 **Valerio Rubino**
3 months Dimensionality reduction for neuroimaging data
co-supervised with Giuseppe Jurman (FBK, Trento)

5.2.3 Master Students

at University of Trento

- July 2026 expected** **Ilaria Pellegrinelli**
co-supervisor: Vincenzo Galgano (MPI-CBG Dresden)
Martino Lepri
co-supervisor: Marina Garrote (U. Pompeu Fabra, Barcelona)
- 2026** **Enrico Maria Ferrari**
Topological Multi-Filtration Learning: an application to medical image classification
co-supervisor: Carles Casacuberta (U. Barcelona)
Marianna Zampini
The fiber problem in persistent homology
co-supervisor: Claudia Landi (U. Modena-Reggio Emilia)
- 2025** **Giacomo Parolin**
Differentiable Euler Characteristic Transform for Molecular Prediction
co-supervisor: Bastian Rieck (U. Freiburg)
Andrea Martinelli
Towards Stability for Deep Learning via Topological Data Analysis
co-supervisor: Martina Scolamiero (KTH Stockholm)
- 2024** **Ioannis-Panagiotis Ioannidis**
Analysis of the impacts of Panama canal closure and red sea conflict on the shipping industry
(as co-supervisor) main supervisor: Diego Giuliani (U. Trento)
- 2023** **Surbhi Malothra**
Multi-omics integrative analysis via tensor decomposition techniques
(as co-supervisor) main supervisor: Mario Lauria (U. Trento)
Giulia Bazzucco
Multivariate function approximation via Chebyshev interpolation and Tucker decomposition
co-supervisor: Nick Vannieuwenhoven (KU Leuven)
Matteo Tomasi
Matematici per Gioco: un laboratorio matematico all'interno del Festival della Scienza 2022
co-supervisor: Agnese Del Zozzo (U. Trento)
- 2022** **Davide Tezza**
Design automatization of Quantum Machine Learning algorithms
co-supervisor: Massimiliano Incudini (U. Verona & Data Reply)
- 2021** **Helena Beltrani**
Financial crashes: topological data analysis and wavelets analysis
co-supervisor: Alfredo Peris (U. Valencia)

5.2.4 Bachelor Students

at University of Trento

- 2025** **Leon Vaia**
Discrete Morse Theory
Maia Santi
Menecmo e la cubica gobba: una storia per avvicinare alla geometria algebrica
- 2022** **Luis Abaitua**
Persistent Homology and Applications to speech recognition
Erasmus student from UPV/EHU U. Basque Country, Spain

at Stockholm University

- 2015** **George Mouselli**
Apolarity Theory and Macaulay's Theorem

6. Organisational Activities

6.1 Conferences, Workshops, Masterclasses

- 2026** **INABAG Conference 2026**
organised with C. Bocci, M. C. Brambilla, E. Ventura
Siena, Italy
- 2025** **INABAG Conference 2025**
organised with E. Guardo, P. Santarsiero
Trento, Italy
- 2024** **XXIII Congresso SIM**
organised with: A.M. Alonso Rodriguez, M. Andreatta, A. Demattè, C. Fontanari, S. Gattei
Trento, Italy
Masterclass: Tensor Decompositions and Applications in Multi-Omics Data Analysis
teacher: N. Tokcan (U. Boston)
organised within TensorDec Lab - U. Trento, Italy
- 2023** **Masterclass: Introduction to Computer Vision**
teacher: K. Kohn (KTH Stockholm)
organised within TensorDec Lab - U. Trento, Italy
- 2022** **Masterclass: Introduction to Algebraic Statistics**
teacher: K. Kubias (Aalto U.)
organised within TensorDec Lab - U. Trento, Italy
- 2021** **Masterclass: Tensor Decompositions and Applications**
teacher: N. Vannieuwenhoven (KU Leuven)
organised within TensorDec Lab - U. Trento, Italy
- 2018** **Tensors Workshop**
organised with: A. Boralevi, E. Carlini, L. Gatto, F. Vallarino
Politecnico di Torino, Italy
IPPI Workshop (Ideals of Powers and Powers of Ideals)
organised with: E. Carlini, G. Casnati, E. Guardo, F. Ragusa
Politecnico di Torino, Italy
- 2016** **Stockholm-Uppsala mini-conference for graduate students**
organised with: O. Bergvall, A. Serio, G. Sædén Sthål
Stockholm U., Sweden

6.2 Special Sessions

- 2023** **Tensors in Algebraic Geometry**
at SIAM Conference in Applied Algebraic Geometry
organised with: F. Gesmundo, P. Santarsiero, L. Sodomaco
TU Eindhoven, The Netherlands
- 2021** **The Algebra and Geometry of Tensors I**
at SIAM Conference in Applied Algebraic Geometry
organised with: N. Vannieuwenhoven
Texas A&M U., College Station, Texas, USA
- 2019** **The Algebra and Geometry of Tensors: structured Tensors**
at SIAM Conference in Applied Algebraic Geometry
organised with: E. Angelini, E. Carlini
U. Bern, Switzerland

6.3 Schools

- 2026 INABAG School 2026**
teachers: K. Kohn, F. Holweck
organised with C. Bocci, M. C. Brambilla, E. Ventura
Siena, Italy
- 2025 TiME 2025 - Invariant Theory: from classics to modern developments**
teachers: G. Ottaviani, H. Derksen, K. DeVleming, M. Walter
organised with K. Kohn, P. Santarsiero, E. Turatti
Lie-Strømmer Center, Tromsø U., Norway
- 2019 TiME 2019 - Curves and Surfaces: a history of shapes**
teachers: L. Busé, F. Catanese, E. Postinghel
organised with: M. Gallet, K. Kohn, M. Panizzut, E. Ventura
Levico Terme, Italy

6.4 Seminars

- 2024 – Comunicazione della Matematica**
2025 with L. A. Bianchi
U. Trento, Italy
- 2023 – Math Colloquium**
2025 with V. Agostiniani, A. Pinamonti, E. Postinghel, M. Stanojkovski
U. Trento, Italy
- 2020 – What is... Seminar**
2022 U. Trento, Italy
- 2020 – Comunicazione, Storia e Filosofia della Matematica**
2021 with C. Fontanari
U. Trento
- 2014 – Problem Solving Seminar**
2016 with R. Fröberg, G. Nenashev, B. Shapiro
Stockholm U., Sweden
- Graduate Student Seminar**
with O. Bergvall, G. Balletti, G. Sædén Sthål
Stockholm U. and KTH, Sweden

6.5 Outreach

- Hex: una lezione di topologia su scacchiera**
a lecture for high school students
offered at the Department of Mathematics of U. Trento and U. of Genova
- Acconciature, Trecce, Cravatte**
laboratory activity for schools on the theory of Braid Groups
Organised with: A. Del Zozzo
presented at Festival della Scienza di Genova 2025
- Moltiplichiamo! Tra regoli, immagini e reti neurali**
laboratory activity for schools about various types of multiplications
Organised with: A. Bernardi, M. Stanojkovski, E. Postinghel
presented at BergamoScienza 2025
- Per imparare bisogna sbagliare**
laboratory activity for schools on Reinforcement Learning
organised with: L. A. Bianchi, M. Santi, C. Vielmo
presented at Festival della Scienza di Genova 2024; BergamoScienza 2025

Matematici per Gioco

laboratory activity for the general audience on the relation between games and mathematics
organised with: M. Tomasi, C. Vielmo, A. Del Zozzo
at Festival della Scienza di Genova 2022; EDUCA Rovereto 2023; BergamoScienza 2023

A dissemination protocol between University, School and Society

collaborative path between researchers, undergraduate students and high school students to
implement outreach activities at U. Trento
supported by INdAM - Istituto Nazionale di Alta Matematica
organised with A. Del Zozzo, C. Vielmo, M. Andreatta
in collaboration with FabLab UniTrento

Recostruint l'evolució amb matemàtiques

interactive workshop for high school students on phylogenetic mathematical models
organised with: M. Garrote Lòpez, M. Casanellas
2019 International day of women and girls in science, Inst. d'Estudis Catalans, Barcelona

Formae Mathematicae

a full-day event with laboratories, expositions and seminars
organised with: M. Garrote Lòpez
2018 European Researchers' Night, Dipòsit del Rei Martí, Barcelona

7. Others

7.1 Institutional Responsibilities

- 2021.10** **Member of Osservatorio Dottorati UMI (Unione Matematica Italiana)**
– present board taking care of relationship between UMI and PhD programs in mathematics at Italian universities
- 2020.05** **Member of Academic Board (Collegio Docenti) of PhD program in Math**
– present U. di Trento, Italy
- 2024 –** **Member of "Commissione Paritetica"**
2025 Department of Mathematics, U. Trento, Italy
- 2021 –** **Member of several Hiring Committees for postdoctoral research grants**
2025 Department of Mathematics, U. Trento, Italy
- 2023** **Member of Hiring Committee for PhD program in Mathematics**
Department of Mathematics, U. Trento, Italy
- 2008 –** **Elected Undergraduate Students' Representative**
2010 at DIMA - U. Genova, Italy

7.2 Mathematical Societies Memberships

- 2021 –** **EMS (European Mathematical Society)**
present **SIAM (Society for Industrial and Applied Mathematics)**
 UMI (Unione Matematica Italiana)

7.3 Services

- 2021 –** **Co-administrator of webpage of UMI (Unione Matematica Italiana)**
present with L. A. Bianchi
- 2019 –** **Reviewer for Zentralblatt MATH**
present
- 2015 –** **Reviewer for Mathematical Reviews**
present

2015 –
present

Referee for several international mathematical journals

Algebra & Number Theory, Annali U. Ferrara, Crelle's Mathematical Journal, Collectanea Mathematica, Geometry & Topology, Journal of Algebra, Journal of Pure and Applied Algebra, Journal of Symbolic Computations, Le Matematiche, Linear and Multilinear Algebra, Mathematische Nachrichten, Optimisation Letters, Portugaliae Mathematica, SIAM Journal on Applied Algebra and Geometry, SIAM Journal on Matrix Analysis and Applications, Selecta Mathematica

I authorise the processing of personal data contained within my CV, according to GDPR (EU) 2016/679, Article 6.1(a).
Genova, June 8th, 2026 – Alessandro Oneto