Alessandro ONETO

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1. Work Experience

2026.01 — present **Associate Professor**
Università di Genova, Italy
Sector: MATH-02/A - Algebra

2023.04 — 2025.12 **Associate Professor**
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 Politècnica 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

P27 **Hadamard ranks of algebraic varieties**
D. Antolini, G. Montúfar, A. Oneto
SIAM Journal on Applied Algebra and Geometry, *accepted*, 2026

P26 **Hadamard-Hitchcock Decompositions: identifiability and computation**
A. Oneto, N. Vannieuwenhoven
Mathematics of Computation, 95(362):2849–2890, 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, A. Oneto
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 the 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 de Mathématiques Pures et Appliquées, 188:446–469, 2024

P20 **Identifiability for mixtures of centered Gaussians and sums of powers of quadratics**
A. Taveira Blomenhofer, A. Casarotti, M. Michałek, A. Oneto
Bulletin of the London Mathematical Society, 55(5):2407–2424, 2023

P19 **Strength and slice rank of forms are generically equal**
E. Ballico, A. Bik, 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**
A. Bik, A. Oneto
Linear and Multilinear Algebra, 70(21):6114–6140, 2022

P16 **The set of forms with bounded strength is not closed**
E. Ballico, A. Bik, A. Oneto, E. Ventura
Comptes Rendus. 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 Computation, 89(325):2481–2505, 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 general 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, A. Oneto
Revista Matemática Complutense, 33(1):295–324, 2020

P10 **Unexpected curves arising from special line arrangements**
M. Di Marca, G. Malara, 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, E. Ventura
SIAM Journal on Matrix Analysis and Applications, 40(4):1453–1477, 2019

P8 **On generic and maximal k-ranks of binary forms**
S. Lundqvist, A. Oneto, B. Reznick, 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 the 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, A. Oneto
Deformation of Artinian Algebras and Jordan Type, AMS Contemporary Mathematics, 805:77–93, 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, Fields Institute Communications, 2017

4.1.3 Surveys

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 Decomposition**
A. Bernardi, E. Carlini, M.V. Catalisano, A. Gimigliano, A. Oneto
Mathematics, special issue: Decomposability of Tensors, 6(12):314, 2018

S1 **Algebraic Stories from One and from the Other Pockets**
R. Fröberg, S. Lundqvist, A. Oneto, B. Shapiro
Arnold Mathematical Journal, 4(2):137–160, 2018

4.1.4 Submitted Preprints

PP3 **On Waring rank jumps via critical rank-one approximations**
A. Oneto, P. Santarsiero, E. Teixeira Turatti
arXiv:2605.04695, 2026

PP2 **Finiteness of Hadamard ranks**
D. Antolini, E. Ballico, A. Oneto
arXiv:2603.29955, 2026

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: "Tensors: geometry, optimization, and applications"**
U. Firenze, Italy
Metric Algebraic Geometry
Mittag-Leffler 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 de 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

2026 **Séminaire de l'équipe d'algèbre, topologie et géométrie**, U. Côte d'Azur, Nice, France

2022 **Seminari di Geometria Algebrica**, Politecnico di Milano, Italy
Applied Algebraic Geometry Seminar, U. Bologna, Italy
Seminario di Algebra e Geometria, U. 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 Planck 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. Trento, Italy
Seminario di Algebra e Geometria, U. 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 Project 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 responsibles 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 **Funded 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 María de Maeztu Unit of Excellence Award (2015-2019)

4.3.3 Project 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 Vetenskapsakademien (Sweden)
C.F. Liljevalch Resestipendie
by Stockholm U. - Faculty of Science (Sweden)

2015 **Stiftelsen GS Magnuson Foundation**
by Kungliga Vetenskapsakademien (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-Størmer Center, Norway
with Kathlén 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, Kathlén 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 Genoa

2026 — present **Algebra Lineare e Geometria Analitica** *(Linear Algebra and Analytic Geometry)*, with Emanuela De Negri, Victor Lozovanu, Fabio Tanturri
annual course for first year students in Mathematics, Data Science and Physics

2026 — present **Teoria delle Rappresentazioni e Decomposizioni Tensoriali** *(Tensor Representations and Decompositions)*, with Fabio Tanturri
mini-course for bachelor and master students in Mathematics

2026 — present **Teoria dei Codici** *(Coding Theory)*, with Emanuela De Negri
semester course for master students in Mathematics

2026 — present **Geometria** *(Geometry)*, with Arvid Perego
semester course for bachelor students in Management Engineering

at University of Trento

2023 — 2025 **Algebraic Geometry I**, with Edoardo Ballico
semester course for graduate and master students in Mathematics

2021 — 2025 **Geometry and Topology for Data Analysis**
semester course for graduate and master students in Mathematics

2021 — 2025 **Geometria e Algebra Lineare** *(Geometry and Linear Algebra)*
semester course for bachelor students in Industrial Engineering

at Stockholm University

2015 — 2016 **Matematik III: Abstract Algebra**
semester course 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

2024 — present **Oriol Reig Fité**
co-supervised with Bernard Mourrain (Inria), Alessandra Bernardi (U. Trento) within the MSCA Doctoral Network TENORS

2023 — present **Dario Antolini**
co-supervised with Elisa Postinghel (U. Trento)

2022 — present **Carlotta Vielmo**
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

2027.03 **Jacopo D'Alto**
expected co-supervisor: Eva Riccomagno (U. Genova), Alberto Caimo (U. College Dublin)
Martino Lepri

2026.07 **Ilaria Pellegrinelli**
Orthogonal decompositions of tensors
co-supervisor: Vincenzo Galgano (MPI-CBG Dresden)

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 Malhotra**
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 SISM**
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. Kubjas (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 Ståhl
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. Teixeira Turatti
Lie-Størmer 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 — 2025 **Comunicazione della Matematica**
with L. A. Bianchi
U. Trento, Italy

2023 — 2025 **Math Colloquium**
with V. Agostiniani, A. Pinamonti, E. Postinghel, M. Stanojkovski
U. Trento, Italy

2020 — 2022 **What is... Seminar**
U. Trento, Italy

2020 — 2021 **Comunicazione, Storia e Filosofia della Matematica**
with C. Fontanari
U. Trento, Italy

2014 — 2016 **Problem Solving Seminar**
with R. Fröberg, G. Nenashev, B. Shapiro
Stockholm U., Sweden

Graduate Student Seminar
with O. Bergvall, G. Balletti, G. Sædén Ståhl
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. Genova

2025 **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

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

2024 — 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

2022 — 2023 **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

2019 **Reconstruint l'evolució amb matemàtiques**
interactive workshop for high school students on phylogenetic mathematical models
organised with M. Garrote López, M. Casanellas
2019 International day of women and girls in science, Inst. d'Estudis Catalans, Barcelona

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

7. Others

7.1 Institutional Responsibilities

2026.11 — present **Member of Academic Board *(Collegio Docenti)* of PhD program in Mathematics**
U. Genova, Italy

2021.10 — present **Member of Osservatorio Dottorati UMI (Unione Matematica Italiana)**
board taking care of relationship between UMI and PhD programs in mathematics at Italian universities

2020.05 — 2026.10 **Member of Academic Board *(Collegio Docenti)* of PhD program in Mathematics**
U. Trento, Italy

2024 — 2025 **Member of *Commissione Paritetica***
Department of Mathematics, U. Trento, Italy

2021 — 2025 **Member of several Hiring Committees for postdoctoral research grants**
Department of Mathematics, U. Trento, Italy

2023 **Member of Hiring Committee for PhD program in Mathematics**
Department of Mathematics, U. Trento, Italy

2008 — 2010 **Elected Undergraduate Students' Representative**
at DIMA - U. Genova, Italy

7.2 Mathematical Society Memberships

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

7.3 Services

2021 — present **Co-administrator of webpage of UMI (Unione Matematica Italiana)**
with L. A. Bianchi

2019 — present **Reviewer for Zentralblatt MATH**

2015 — present **Reviewer for Mathematical Reviews**

2015 — present **Referee for several international mathematical journals**
Algebra & Number Theory, Annali U. Ferrara, Collectanea Mathematica, Crelle's Journal, Geometry & Topology, Journal of Algebra, Journal of Pure and Applied Algebra, Journal of Symbolic Computation, Le Matematiche, Linear and Multilinear Algebra, Mathematische Nachrichten, Optimization 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, November 17, 2026— Alessandro Oneto