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

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4. Research

4.1 Publications and Preprints

4.1.1 Research Papers

P25 **Hadamard-Hitchcock Decompositions: identifiability and computation**
A. Oneto, N. Vannieuwenhoven
Mathematics of Computation, *to appear*, 2026

P24 **Postulation for 2-superfat points in the plane**
with Stefano Canino, Maria Virginia Catalisano, Sandro Gimigliano, Monica 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

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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 and 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 (eds. Anthony Iarrobino, Pedro Marias Marques, Maria Evelina Rossi, Janes Valles) from AMS-EMS-SFM Joint Meeting, Grenoble 18-22 July, 2022, to appear, 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 (eds. G.G. Smith, B. Sturmfels), 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”, ed.s A. Bernardi, C. Fontanari (2018)

S2 **The hitchhikker guide to: secant varieties and tensor decompositions**
A. Bernardi, E. Carlini, M.V. Catalisano, A. Gimigliano, A. Oneto
Mathematics (issue Decomposability of Tensors, ed. L. Chiantini), 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

PP3 **Hadamard ranks of algebraic varieties**
D. Antolini, G. Montúfar, A. Oneto
arXiv:2510.05231, 2025

PP2 **Polynomials of small slice rank and strength**
C. Flavi, F. Gesmundo, A. Oneto, E. Ventura
arXiv:2509.12322, 2025

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PP1 **Algebraic surfaces as Hadamard products of curves**
D. Antolini, E. Ballico, A. Oneto
arXiv:2502:18813, 2025

4.2 Communications

4.2.1 at Conferences (invited)

2026 **Metric Algebraic Geometry**
Mittag-Lëffler 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

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2014 **CMS Winter Meeting**
Hamilton, Ontario, Canada

Traumatic Workshop: Birational geometry and Fano Varieties
Imperial College, London, UK

4.2.2 at Conferences (contributed)

2021 **MEGA 2021**
U. Tromsø, Norway - online

2020 **Algebraic Geometry: varieties, polyhedra and computations milestone conference of MATH+ Semester**
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

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. Copenaghen**, 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

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4.3 Grants for research activities

4.3.3 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 responsible of local units: Emanuele Ventura (coPI, Poli. Torino), Maria Chiara Brambilla (Poli. Marche), Cristiano Bocci (U. Siena)
Started in February 2025

2022 **Accepted Proposal for a PhD position**
by MUR (Italy) within the NRRP Doctoral Scholarships for Public Administration financed through NextGenerationEU program
proposed with Luigi Amedeo Bianchi
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)

4.3.2 Projects Grants (as participant)

2024 **Member of Marie Skłodowska-Curie PhD Network "TENORS"**
PI: Bernard Mourrain (Inria Sophia-Antipolis)
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
Started in January 2024

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)
Started in September 2023 (member until October 2024)

4.3.3 Travel Grants

2022 **Financial Support as Junior Leader**
at IMPAN (Warsaw, Poland) by Simons Foundation
to participate to the thematic semester AGATES (Algebraic Geometry with Applications to TEnsors and Secants) 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)

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Christer Lech stipendium
by Christer Lech Fundation (Sweden)

2014 **Jubileumsfond**
by Knut and Alice Wallenberg Foundation (Sweden)

Donation stipendium
by Stockholm U. - Faculty of Science (Sweden)

4.3.4 Other Financial Supports

2025 **Financial Support for Conference**
by CIRM (Centro Internazionale di Ricerca Matematica, Trento, Italy)
with E. Guardo, P. Santarsiero
Title: "INABAG Conference 2025"
Trento, Italy, 30 June - 2 July 2025

Financial Support for Summer School
by Lie-Strømer Center, Norway
with K. Kohn, P. Santarsiero, E. Turatti
school: "TiME 2025: Invariant Theory"
Tromsø, Norway, 26-30 May 2025

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 M. Andreatta, A. Del Zozzo, F. Fiore, A. Montresor
topic: implementation of a dissemination protocol between University, School and Society

2019 **Financial Support for EMS Summer School**
by EMS (European Mathematical Society) and
by CIRM (Centro Internazionale di Ricerca Matematica, Trento, Italy)
with M. Gallet, K. Kohn, M. Panizzut, E. Ventura
school: "TiME 2019: Curves and Surfaces"
Levico Terme, Italy, 2-6 September 2019

5. Teaching and Mentoring

5.1 Teaching

5.1.1 at International Events

at University of Warsaw

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 Trento

2023 —2025 **Algebraic Geometry I** - with E. Ballico
for graduate and master students in Mathematics

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

2021 — 2025 **Geometria e Algebra Lineare**
for 1st year students in Industrial Engineering

at Stockholm University

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

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5.1.3 as Teaching Assistant

at Monash University

2015 **Algebra and Number Theory**
grading, instructor: E. Carlini
for bachelor students in Mathematics - Monash U., Australia

at Stockholm University

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

at University of Genoa

2011 **Geometria I**
exercise sessions and tutoring - instructor: M. V. Catalisano
for 1st year students in Civil Engineering - U. Genova, Italy

5.2 Mentoring

5.2.1 Graduate Students

at University of Trento

since 2024 **Oriol Reig Fité**
(as co-supervisor) main supervisors: Alessandra Bernardi, Bernard Mourrain (Inria)

since 2023 **Dario Antolini**
co-supervised with Elisa Postinghel

since 2022 **Carlotta Vielmo**
co-supervised with Luigi Amedeo Bianchi, Mirko Maracci (U. Pisa)

5.2.2 Internships

at University of Trento

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

5.2.3 Master Students

at University of Trento

Spring 2026
expected
Ilaria Pellegrinelli
co-supervisor: Vincenzo Galgano (MPI-CBG Dresden)

Martino Lepri
co-supervisor: Marina Garrote (U. Pompeu Fabra, Barcelona)

Enrico Maria Ferrari
co-supervisor: Carles Casacuberta (U. Barcelona)

Marianna Zampini
co-supervisor: Claudia Landi (U. Modena-Reggio Emilia)

Winter 2025 **Giacomo Parolin** - *Differentiable Euler Characteristic Transform for Molecular Prediction*
co-supervisor: Bastian Rieck (U. Freiburg)

Spring 2025 **Andrea Martinelli** - *Towards Stability for Deep Learning via Topological Data Analysis*
co-supervisor: Martina Scolamiero (KTH Stockholm)

Spring 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

Fall 2023 **Surbhi Malothra** - *Multi-omics integrative analysis via tensor decomposition techniques*
(as co-supervisor) main supervisor: Mario Lauria

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Spring 2023	**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
Winter 2022	**Davide Tezza** - *Design automatization of Quantum Machine Learning algorithms* co-supervisor: Massimiliano Incudini (U. Verona & Data Reply)
Spring 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

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

at Stockholm University

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

6. Organisational Activities

6.1 Conferences, Workshops, Masterclasses

2026 3 - 4 Sep	**INABAG Conference 2026** organised with C. Bocci, M. C. Brambilla, E. Ventura Siena, Italy
2025 30 Jul - 2 Ago	**INABAG Conference 2025** organised with E. Guardo, P. Santarsiero Trento, Italy
2024 14-16 Nov	**XXIII Congresso SISM** organised with: Ana Maria Alonso Rodriguez, Marco Andreatta, Adriano Demattè, Claudio Fontanari, Stefano Gattei Trento, Italy
2024 25-29 Oct	**Masterclass: Tensor Decompositions and Applications in Multi-Omics Data Analysis** teacher: N. Tokcan (U. Boston) organised within TensorDec Lab - U. Trento, Italy
2023 9-13 Oct	**Masterclass: Introduction to Computer Vision** teacher: K. Kohn (KTH Stockholm) organised within TensorDec Lab - U. Trento, Italy
2022 17-21 Oct	**Masterclass: Introduction to Algebraic Statistics** teacher: K. Kubias (Aalto U., Finland) organised within TensorDec Lab - U. Trento, Italy
2021 8-17 Nov	**Masterclass: Tensor Decompositions and Applications** teacher: N. Vannieuwenhoven (KU Leuven) organised within TensorDec Lab - U. Trento, Italy
2018 10-14 Sep	**Tensors Workshop** organised with: A. Boralevi, E. Carlini, L. Gatto, F. Vallarino Politecnico di Torino, Italy
2018 22-24 Mar	**IPPI Workshop (Ideals of Powers and Powers of Ideals)** organised with: E. Carlini, G. Casnati, E. Guardo, F. Ragusa Politecnico di Torino, Italy

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2016 12-13 May
Stockholm-Uppsala mini-conference for graduate students
organised with: O. Bergvall, A. Serio, G. Sædén Sthål
Stockholm U., Sweden

6.2 Special Sessions

2023 10-14 Jul
Tensors in Algebraic Geometry
at SIAM Conference in Applied Algebraic Geometry
organised with: F. Gesmundo, P. Santarsiero, L. Sodomaco
TU Eindhoven, The Netherlands

2021 16-20 Aug
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 9-13 Jul
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 31 Aug-2 Sep
INABAG School 2026
teachers: K. Kohn, F. Holweck
organised with C. Bocci, M. C. Brambilla, E. Ventura
Siena, Italy

2025 26-30 May
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-Strømer Center, Tromsø U., Norway

2019 2-6 Sep
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

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

2014 — 2016 **Graduate Student Seminar**
with O. Bergvall, G. Balletti, G. Sædén Sthål
Stockholm U. and KTH, Sweden

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6.5 Outreach

2023 — 2026 **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

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

Moltiplichiamo! Tra regoli, immagini e reti neurali
laboratory activity for schools about various types of multiplications, from operations with numbers to those between matrices, with the aim of discovering that matrix operations are the basis of many computer applications: from image recognition to recommendation algorithms
Organised with: A. Bernardi, M. Stanojkovski, E. Postinghel
presented at BergamoScienza 2025

2024 **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

2022 **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 **Recostruint l'evolució amb matemàtiques**
interactive workshop for high school students on phylogenetic mathematical models for the
organised with: M. Garrote Lòpez, M. Casanellas
"International day of women and girls in science" at the Inst. d'Estudis Catalans, Barcelona

2018 **Formae Mathematicae**
a full-day event with laboratories, expositions and seminars
organised with: M. Garrote Lòpez
for the "European Researchers' Night" at Dipòsit del Rei Martì, Barcelona

7. Others

7.1 Institutional Responsibilities

Oct 2021 — Present **Member of Osservatorio Dottorati UMI (Unione Matematica Italiana)**
board taking care of relationship between UMI and PhD programs in mathematics at Italian universities

May 2020 — Present **Member of Academic Board (Collegio Docenti) of PhD program in Math**
U. di 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

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7.2 Mathematical Societies 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, Crelle, 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

Genova
January 11th, 2026
Alessandro Oneto

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