Giovanni S. Alberti

Curriculum Vitae

Contact info Machine Learning Genoa Centre (MaLGa)

Department of Mathematics

University of Genoa Via Dodecaneso 35 16146 Genova, Italy



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Personal Date of Birth: 6th August 1987

INFO Nationality: Italian

Languages: English (fluent), French (fluent), Italian (mother tongue)

EMPLOYMENT	2024-now	University of Genoa, Dept. of Mathematics, full professor
	2022 - 2024	University of Genoa, Dept. of Mathematics, associate professor
	2016 - 2022	University of Genoa, Dept. of Mathematics, assistant professor
	2015 - 2016	ETH Zürich, Department of Mathematics, Postdoc
	2014-2015	École Normale Supérieure, Paris, DMA, Postdoc
EDUCATION	2011 - 2014	Oxford University, Doctor of Philosophy in Mathematics

2006-2011 University of Genoa, BSc+MSc in Maths (110/110 cum laude)

RESEARCH Partial differential equations, inverse problems, functional analysis, applied INTERESTS harmonic analysis, wavelets, compressed sensing, machine learning

Grants	2023 - 2026	AFOSR, Co-PI, \$240K
	2023-2025	PRIN 2022, PI, €190K
	2022-2027	ERC Starting Grant 2021, PI, €1,2M
	2021-2023	UniGe BIPE "Promoting Competitiveness", PI, €85K
	2020 - 2023	AFOSR, Co-PI, \$253K
	2019-2021	UniGe starting grant "Curiosity driven", PI, €60K
	2016 - 2018	ETH Postdoctoral Fellowship co-funded by ETH and Marie
		Curie actions (salary and research funding), PI, CHF 225K
	2011 - 2015	EPSRC Doctoral Training Award (University of Oxford)

***	2021	
Honours	2021	Abilitazione Professore I Fascia in Analisi Matematica
& AWARDS	2021	Selected for "Emerging Talents 2021" of the journal <i>Inverse Problems</i>
	2018	Eurasian Association on Inverse Problems Young Scientist Award
	2017	Abilitazione Professore II Fascia in Analisi Matematica
	2017	Premio "Gioacchino Iapichino" per l'Analisi Matematica
	2015	IMA Lighthill-Thwaites Prize Finalist
	2006	Bronze Medal – Italian Mathematical Olympiad

Publications Preprints

- [P5] S. Sun and G.S.A, The learned range test method for the inverse inclusion problem, 2024.
- [P4] G.S.A., D. Barnes, A. Jambhale and R. Nickl, On low frequency inference for diffusions without the hot spots conjecture, 2024.
- [P3] R. Alaifari, G.S.A. and T. Gauksson, On L^{∞} stability for wave propagation and for linear inverse problems, 2024.
- [P2] G.S.A., L. Ratti, M. Santacesaria and S. Sciutto, Learning a Gaussian Mixture for Sparsity Regularization in Inverse Problems, 2024.
- [P1] G.S.A., A. Felisi, M. Santacesaria and S. I. Trapasso, Compressed sensing for inverse problems and the sample complexity of the sparse Radon transform, 2023.

Journal articles

- [A31] G.S.A., M. Santacesaria and S. Sciutto, Continuous Generative Neural Networks: A Wavelet-Based Architecture in Function Spaces, Numer. Func. Anal. Opt., to appear.
- [A30] Q. Liu, B. Lv, H. Konietzky, G.S.A., K. S. Lee, C. Zhang, P. Han, L. Wang and Y. Cheng, A Novel Method for Rock Permeability Determination Based on the Pressure Pulse Decay Method and Inverse Numerical Simulations, Rock Mech. Rock Eng., to appear.
- [A29] B. Hu, Y. Shan, Y. Zhao, B. Wang, S. Zhou, G.S.A., W. Ma and B. Detmann, Experimental study on tunneling-induced soil arching evolution in pile-raft foundations, Transp. Geotech., 48, 101340, 2024.
- [A28] G.S.A., J. Hertrich, M. Santacesaria and S. Sciutto, *Manifold Learning by Mixture Models of VAEs for Inverse Problems*, J. Mach. Learn. Res., 25(202),1–35, 2024.
- [A27] G.S.A., R. Petit and M. Santacesaria, Localization of point scatterers via sparse optimization on measures, SIAM J. Imaging Sci., 17(3), 619–1649, 2024.
- [A26] R. Alaifari, G.S.A. and T. Gauksson, *Localized adversarial artifacts for compressed sensing MRI*, SIAM J. Imaging Sci., 16(4), SC14–SC26, 2023.
- [A25] G.S.A., Á. Arroyo and M. Santacesaria, *Inverse problems on low-dimensional manifolds*, Nonlinearity, 36, 734–808, 2023.
- [A24] G.S.A., Non-zero constraints in elliptic PDE with random boundary values and applications to hybrid inverse problems, Inverse Probl. 38, 124005, 2022.
- [A23] G.S.A. and M. Santacesaria, Calderón's Inverse Problem with a Finite Number of Measurements II: Independent Data, Appl. Anal., 101(10), 3636–3654, 2022.
- [A22] G.S.A. and M. Santacesaria, *Infinite-dimensional inverse problems with finite measure-ments*, Arch. Rational Mech. Anal., 243(1), 1–31, 2022.
- [A21] G.S.A. and Y. Capdeboscq, Combining the Runge approximation and the Whitney embedding theorem in hybrid imaging, Int. Math. Res. Notices, 2022(6), 4387–4406, 2022.
- [A20] G.S.A., P. Campodonico and M. Santacesaria, Compressed sensing photoacoustic tomography reduces to compressed sensing for undersampled Fourier measurements, SIAM J. Imaging Sci., 14(3), 1039–1077, 2021.
- [A19] G.S.A. and M. Santacesaria, Infinite dimensional compressed sensing from anisotropic measurements and applications to inverse problems in PDE, ACHA, 50, 105–146, 2021.

- [A18] G.S.A., Y. Capdeboscq and Y. Privat, On the randomised stability constant for inverse problems, Math. in Engineering, 2(2): 264–286, 2020.
- [A17] G.S.A., F. Bartolucci, F. De Mari and E. De Vito, *Unitarization and Inversion Formulae* for the Radon Transform between Dual Pairs, SIAM J. Math. Anal., 51(6), 2019.
- [A16] G.S.A. and M. Santacesaria, Calderón's Inverse Problem with a Finite Number of Measurements, Forum Math. Sigma, 7, e35, 2019.
- [A15] G.S.A., H. Ammari, F. Romero and T. Wintz, *Dynamic Spike Superresolution and Applications to Ultrafast Ultrasound Imaging*, SIAM J. Imaging Sci., 12(3), 1501–1527, 2019.
- [A14] G.S.A., M. Brown, M. Marletta and I. Wood, *Essential spectrum for Maxwell's equations*, Ann. Henri Poincaré, 20(5), 1471–1499, 2019.
- [A13] G.S.A., Hölder regularity for Maxwell's equations under minimal assumptions on the coefficients, Calc. Var. Partial Differential Equations, 57(3), 71, 2018.
- [A12] G.S.A., G. Bal and M. Di Cristo, Critical Points for Elliptic Equations with Prescribed Boundary Conditions, Arch. Rational Mech. Anal., 226(1), 117–141, 2017.
- [A11] G.S.A., S. Dahlke, F. De Mari, E. De Vito and S. Vigogna, *Continuous and discrete frames generated by the evolution flow of the Schrödinger equation*, Anal. Appl., 2017.
- [A10] G.S.A., H. Ammari, F. Romero and T. Wintz, *Mathematical Analysis of Ultrafast Ultra-sound Imaging*, SIAM J. Appl. Math., 77(1), 1–25, 2017.
- [A9] G.S.A. and H. Ammari, Disjoint sparsity for signal separation and applications to hybrid inverse problems in medical imaging, ACHA, 42(2), 319–349, 2017.
- [A8] G.S.A., H. Ammari, B. Jin, J.-K. Seo and W. Zhang, *The Linearized Inverse Problem in Multifrequency Electrical Impedance Tomography*, SIIMS, 9(4), 1525–1551, 2016.
- [A7] G.S.A., Absence of Critical Points of Solutions to the Helmholtz Equation in 3D, Arch. Rational Mech. Anal., 222(2), 879–894, 2016.
- [A6] G.S.A., Enforcing local non-zero constraints in PDEs and applications to hybrid imaging problems, Comm. PDE, 40(10), 1855–1883, 2015.
- [A5] G.S.A., On multiple frequency power density measurements II. The full Maxwell's equations, J. Differ. Equations, 258(8), 2767–2793, 2015.
- [A4] G.S.A. and Y. Capdeboscq, Elliptic regularity theory applied to time harmonic anisotropic Maxwell's equations with less than Lipschitz complex coefficients, SIMA, 46(1), 2014.
- [A3] G.S.A., F. De Mari, E. De Vito and L. Mantovani, Reproducing subgroups of $SP(2,\mathbb{R})$. Part II: Admissible Vectors, Monatsh. Math., 173(3), 261–307, 2014.
- [A2] G.S.A., On multiple frequency power density measurements, Inverse Probl., 29(11), 115007, 2013.
- [A1] G.S.A., L. Balletti, F. De Mari and E. De Vito, Reproducing subgroups of $SP(2,\mathbb{R})$. Part I: Algebraic Classification, J. Fourier Anal. and Appl., 19(4), 651–682, 2013.

Books

[B1] G.S.A. and Y. Capdeboscq, *Lectures on elliptic methods for hybrid inverse problems*, Cours Spécialisés 25, Société Mathématique de France, 2018.

Book chapters and proceedings

- [C7] G.S.A., E. De Vito, M. Lassas, L. Ratti and M. Santacesaria, *Learning the optimal regularizer for inverse problems*, NeurIPS 2021.
- [C6] G.S.A., F. Bartolucci, F. De Mari and E. De Vito, Radon Transform: Dual Pairs and Irreducible Representations, Appl. Numer. Harmon. Anal., 1–28, 2020.
- [C5] R. Alaifari, G.S.A. and T. Gauksson, *ADef: an Iterative Algorithm to Construct Adversarial Deformations*, ICLR 2019.
- [C4] G.S.A., S. Dahlke, F. De Mari, E. De Vito and H. Führ, Recent Progress in Shearlet Theory: Systematic Construction of Shearlet Dilation Groups, Characterization of Wavefront Sets, and New Embeddings, Appl. Numer. Harmon. Anal., 127–160, 2017.
- [C3] G.S.A. and Y. Capdeboscq, On local non-zero constraints in PDE with analytic coefficients, Contemp. Math., vol. 660, AMS, 2016, pp. 89-97.
- [C2] G.S.A., H. Ammari and K. Ruan, *Multi-frequency acousto-electromagnetic tomography*, Contemp. Math., vol. 658, AMS, 2016, pp. 67-79.
- [C1] G.S.A. and Y. Capdeboscq, À propos de certains problèmes inverses hybrides, Seminaire: Equations aux Dérivées Partielles. 2013–2014, Exp. No. II. École Polytech.

Professional European Laboratory for Learning and Intelligent Systems (ELLIS)

MEMBERSHIPS Inverse Problems International Association (IPIA)

IFIP working group Inverse Problems and Imaging

Gruppo UMI Matematica per l'intelligenza artificiale e il machine learning Gruppo UMI Matematica delle Immagini, della Visione e delle loro Applicazioni (MIVA)

INSTITUTIONAL EAIP Young Scientist Award Committee (2022, 2024)

MEMBERSHIPS PhD Committee of Adrian Kirkeby (DTU, Copenhagen, 2019), Francesca Bartolucci (UniGe, 2020), Paolo Massa (UniGe, 2022), Andreas Habring (Univer-

sity of Graz, 2023)

Scientific Committee, PhD in Mathematics and applications, UniGe

EDITOR 2024-now SIAM Journal on Imaging Sciences

2023-now Numerical Functional Analysis and Optimization

2023-now Inverse Problems

2022-now Communications on Analysis and Computation 2019-2021 Inverse Problems in Science and Engineering

Reviewer Austrian Science Fund, AMS Mathematical Reviews, Anal. PDE, Appl. Anal.,

Appl. Math. Lett., Appl. Math. Lett., Calc. Var. Partial Differ. Equ., Contemp. Math., ESAIM: Math. Model. Numer. Anal., IMA J. Appl. Math., Inverse Probl., Inverse Probl. Imaging, Isr. J. Math., J. Eur. Math. Soc., Math. Comput., Nonlinear Anal. Real World Appl., SIAM-ASA J. Uncertain. Quantif., SIAM J. Appl. Dyn. Syst., SIAM J. Imaging Sci., SIAM J. Math. Anal., SIAM J. Math. Data Sci., SIAM J. Numer. Anal., Zentralblatt MATH.

Supervision Postdocs

2024-now Markus Holzleitner

2023-2024 Romain Petit, Anupam Gumber

2020-2023 Luca Ratti (next: ass. prof. at University of Bologna)

2020-2022 S. Ivan Trapasso (next: ass. prof. at Politecnico di Torino)

2019-2020 Ángel Arroyo (next: ass. prof. at University Carlos III of Madrid)

PhD students

Simone Sanna (2023-now), Işıl Güleken (2022-now), Alessandro Felisi (2021-2025), Silvia Sciutto (2020-2024), Tandri Gauksson (2018-2024, ETH Zürich)

Master's students

Matteo Arscone (2025), Lorenzo Bozzi (2024), Veronica Raffetto (2024), Lorenzo Sacchi (2023), Simone Sanna (2023), Camilla Casaleggi (2023), Silvia Sciutto (2020), Paolo Campodonico (2019), Luca Di Fazio (2018, cosupervision, University of Catania), Victor Storchan (2015, co-supervision, École Normale Supérieure)

Bachelor's students

R. Bertolini (2024), L. Finotti (2023), G. Traverso (2023), M. Arscone (2022),
S. Buzzo (2022), S. Sanna (2021), M. Bertuzzo (2021), F. Papallo (2020), L.
Bozzi (2020), B. Ravera (2020), M. Baracchini (2019), E. Dellepiane (2019),
D. Parodi (2019), S. Sciutto (2018)

ORGANISATION

- 9/2024 Applied Harmonic Analysis and Machine Learning, UniGe
- 6/2023 INdAM Workshop on Learning for Inverse Problems, INdAM, Rome
- 5/2022 XLI Convegno di Analisi Armonica, University of Genoa
- 5/2022 Electrical Impedance Tomography: Theory and Applications, IPMS
- 3/2022 Data-Driven Methods in Inverse Problems & Imaging, SIAM IS
- 9/2019 Applied Harmonic Analysis and Machine Learning, UniGe
- 7/2019 Compressed Sensing meets Inverse Problems, AIPC 2019
- 5/2018 Direct and Inverse Problems for Maxwell's Equations, IPMS 2018
- 7/2017 Summer School on Applied Harmonic Analysis, University of Genoa

Conference

TALKS

- 12/2024 AIMS Conference, $NYU\ Abu\ Dhabi$
- 12/2024 Tomography Across the Scales Meeting, Obergurgl, Austria
- 10/2024 Deep Learning for PDE-based Inverse Problems, MFO Oberwolfach
- 9/2024 Statistical aspects of non-linear inverse problems, Cambridge, UK
- 7/2024 AMS-UMI Joint Meeting, University of Palermo, Italy
- 5/2024 XLIII Convegno nazionale di analisi armonica, University of Padua
- 5/2024 International Conference on Elliptic and Parabolic Problems, Gaeta
- 2/2024 SIAM conference on Uncertainty Quantification, Trieste, Italy
- 1/2024 Inverse Problems in the Physical Sciences, *Puerto Varas, Chile*
- 12/2023 CoMFoS23: Mathematical Aspects of Continuum Mechanics 2023
- 11/2023 Control Methods in Hyperbolic PDEs, MFO Oberwolfach
- 9/2023 Congresso UMI 2023, University of Pisa
- 9/2023 Applied Inverse Problems Conference (plenary speaker), Göttingen

- 7/2023 Deep Learning for Computational Physics (keynote speaker), UCL
- 6/2023 Leveraging model- and data-driven methods in medical imaging, BIRS, UBC Okanagan
- 5/2023 MATH + X Symposium on Dynamos, Planetary Exploration and General Relativity, Inverse Problems and Machine Learning, Hella
- 2/2023 2023 BASP Frontiers workshop, Villars-sur-Ollon Switzerland
- 12/2022 Inverse problems in the desert, New York University Abu Dhabi
- 12/2022 Recent advances in direct and inverse problems for PDEs and applications, Sapienza University of Rome
- 11/2022 Inverse problems on large scales, RICAM, Linz Austria
- 10/2022 PICOF 2022 (plenary speaker), Caen France
- 9/2022 MIA-MIVA workshop, Université Côte d'Azur
- 3/2022 SIAM Conference on Imaging Science
- 11/2021 Statistical aspects of non-linear inverse problems, Banff Canada
- 9/2021 Chemnitz Symposium on Inverse Problems 2021, Klagenfurt
- 9/2021 IFIP TC7 Conference on System modeling and optimization, Quito
- 9/2021 SIMAI 2020, University of Parma
- 3/2021 Tomographic Reconstructions and their Startling Applications, ESI
- 9/2020 Inverse Problems for PDEs: A one day webinar in occasion of the $65^{\rm th}$ birthday of Sergio Vessella
- 7/2020 SIAM Conference on Imaging Science
- 6/2020 Convegno Nazionale di Analisi Armonica, University of Bologna
- 9/2019 Dynamics, Equations and Applications 2019, AGH UST, Kraków
- 7/2019 Applied Inverse Problem Conference, University of Grenoble
- 6/2019 Reconstruction Methods for Inverse Problems, Banff Canada
- 5/2019 Inverse Problems and Machine Learning Workshop, CRM, Montreal
- 5/2019 Spring Workshop on Computational Mathematics, Statistics and Machine Learning, *University of Pavia*
- 1/2019 Operators, Operator Families, and Asymptotics II, Bath UK
- 6/2018 SIAM Conference on Imaging Science, Bologna
- 5/2018 Reconstruction Methods in Inverse Problems, INDAM, Rome
- 5/2018 Inverse Problems: Modeling & Simulation (plenary speaker), Malta
- 3/2018 Inverse Problems, Imaging and PDEs, IAS, Hong Kong
- 1/2018 Trends in Hybrid Data Tomography, DTU, Copenhagen
- 7/2017 Radon meets Bell and Maxwell, RICAM, Linz Austria
- 5/2017 Applied Inverse Problem Conference, Hangzhou China
- 4/2017 Inverse Problems Network Meeting 1, Cardiff University
- 3/2017 100 Years of the Radon Transform, RICAM, Linz Austria
- 2/2017 INdAM Workshop on Biomedical Imaging, Sapienza, Rome
- 6/2016 Computational and Analytic Problems in Spectral Theory, Cardiff
- 6/2016 PICOF 2016, Autrans France
- 3/2016 New trends in Hybrid Ultrasonic Imaging, Orléans France
- 12/2015 Inverse Problems Workshop, Marseille France
- 11/2015 Compressive Sensing and Sparsity: Theory and Applications in Tomography, *University of Manchester*
- 10/2015 Mathematics for Imaging Workshop, ETH Zürich

6/2015 Hybrid Methods in Imaging, Banff - Canada 5/2015 Applied Inverse Problem Conference, University of Helsinki 3/2015 British Applied Mathematics Colloquium, University of Cambridge 3/2015 Real and complex manifolds: geometry, topology and harmonic analysis, Scuola Normale Superiore di Pisa 12/2014 Inverse Days 2014, Tampere - Finland 18/2014 Imaging, Multi-scale and high contrast PDEs, NIMS - Korea 7/2014 The 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Universidad Autónoma de Madrid 7/2014 Hybrid imaging and multi-modal imaging, Manchester University 7/2014 Young Researchers in Mathematics, University of Warwick 6/2014 Workshop Imagerie Multi-Ondes, University of Warwick 6/2014 Workshop Imagerie Multi-Ondes, University of Warwick 6/2014 South West Regional PDE Winter School, Oxford University 7/2013 Applied Inverse Problem Conference, KAIST - Korea INVITED 1/2025 Geilo Winter Schools in eScience, Geilo, Norway 20URSES 1/2025 Advanced Numerical Methods for Machine and Deep Learning, University of Ferram 1/2018 PhD School on Hybrid Data Tomography, DTU, Copenhagen 4/2017 Spring School in Analysis, Polish Academy of Sciences 2/2017 INdAM Workshop on Biomedical Imaging, Sapienza, Rome SEMINARS 12/2024 Data-Enabled Science Seminar, University of Houston 11/2024 Harmonic Analysis E-Seminars 11/2024 Applied Mathematics Seminar, University of Warwick Statistics Seminar, University of Cambridge 5/2023 Collegio Fonda, Trieste 5/2023 Webinar on Scientific Machine Learning, NYCU, Taiwan 11/2024 IAS Program on Inverse Problems, Imaging and PDEs, HKUST 4/2022 UMI Al&ML&MAT 3/2022 Seminari di Matematica Application Seminar, Warwick 3/2022 Seminari di Matematica Application, University of Pavia 3/2022 Seminari di Matematica Applicato, University Abu Dhabi 10/2021 Mathematica Colloquium, New York University Abu Dhabi 10/2021 Mathematical Methods in the Theory of Electromagnetism, Padua 4/2019 Colloquium in Applied and Computational Math., ETH Zürich 10/2018 PDE CDT Lunchtime Semina		7/2015	EquaDiff 2015, Université Claude Bernard Lyon 1
5/2015 Applied Inverse Problem Conference, University of Helsinki 3/2015 British Applied Mathematics Colloquium, University of Cambridge 3/2015 Real and complex manifolds: geometry, topology and harmonic analysis, Scuola Normale Superiore di Pisa 12/2014 Inverse Days 2014, Tampere – Finland 8/2014 Imaging, Multi-scale and high contrast PDEs, NIMS – Korea 7/2014 The 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Universidad Autónoma de Madrid 7/2014 Hybrid imaging and multi-modal imaging, Manchester University 7/2014 Young Researchers in Mathematics, Université Pourier – Grenoble 6/2014 Workshop Imagerie Multi-Ondes, Université Fourier – Grenoble 2/2014 Problèmes Inverses et Imagerie, Institut Henri Poincaré – Paris 1/2014 6th South West Regional PDE Winter School, Oxford University 7/2013 Applied Inverse Problem Conference, KAIST – Korea INVITED 1/2025 Geilo Winter Schools in eScience, Geilo, Norway 1/2015 Advanced Numerical Methods for Machine and Deep Learning, University of Ferrara 1/2018 PhD School on Hybrid Data Tomography, DTU, Copenhagen 4/2017 Spring School in Analysis, Polish Academy of Sciences 2/2017 INdAM Workshop on Biomedical Imaging, Sapienza, Rome SEMINARS 12/2024 Data-Enabled Science Seminar, University of Houston 11/2024 Harmonic Analysis F-Seminars 11/2024 Applied Mathematics Seminar, University of Warwick 2/2024 Statistics Seminar, University of Cambridge 5/2023 Collegio Fonda, Trieste 5/2023 Webinar on Scientific Machine Learning, NYCU, Taiwan 11/2022 Analysis seminar, University of Milan 11/2022 Inda IkML&MAT 3/2022 Seminari di Matematica Applicata, University of Pavia 3/2022 Seminari di Matematica Applicata, University of Pavia 3/2022 Machine Learning Seminar, Italian Institute of Technology 1/2021 Analysis & PDE Seminar, Cardiff University 3/2021 Inverse Problems Seminar Series, UCL – London 1/2021 Mathematical Methods in the Theory of Electromagnetism, Padua 4/2019 OneWorld IMAGINE seminar 10/2021 Mathematical Methods in the Theory of Electromagnet		,	
3/2015 British Applied Mathematics Colloquium, University of Cambridge 3/2016 Real and complex manifolds: geometry, topology and harmonic analysis, Scuola Normale Superiore di Pisa 12/2014 Inverse Days 2014, Tampere – Finland 8/2014 Imaging, Multi-scale and high contrast PDEs, NIMS – Korea 7/2014 The 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Universited Autónoma de Madrid 7/2014 Hybrid imaging and multi-modal imaging, Manchester University 7/2014 Young Researchers in Mathematics, University of Warwick 6/2014 Workshop Imagerie Multi-Ondes, University Fourier – Grenoble 2/2014 Problèmes Inverses et Imagerie, Institut Henri Paincaré – Paris 1/2014 6th South West Regional PDE Winter School, Oxford University 7/2013 Applied Inverse Problem Conference, KAIST – Korea INVITED 1/2025 Geilo Winter Schools in eScience, Geilo, Norway Applied Inverse Problem Conference, KAIST – Korea INVITED 1/2015 Geilo Winter Schools in eScience, Geilo, Norway 1/2017 Advanced Numerical Methods for Machine and Deep Learning, University of Ferrara 1/2018 PhD School on Hybrid Data Tomography, DTU, Copenhagen 4/2017 Spring School in Analysis, Polish Academy of Sciences 1/2017 INdAM Workshop on Biomedical Imaging, Sapienza, Rome SEMINARS 12/2024 Data-Enabled Science Seminar, University of Houston 11/2024 Applied Mathematics Seminar, University of Warwick 2/2024 Statistics Seminar, University of Cambridge 5/2023 Collegio Fonda, Trieste 5/2023 Webinar on Scientific Machine Learning, NYCU, Taiwan 11/2022 Analysis seminar, University of Milan 9/2022 Inda AlkMikaMAT 3/2022 Partial Differential Equation and Applications Seminar, Warwick 3/2022 Seminari di Matematica Applicata, University of Pavia 3/2022 Machine Learning Seminar, Italian Institute of Technology 1/2021 Applied Analysis Seminar, University of Heidelberg 0neWorld IMAGINE seminar 10/2021 Mathematics Colloquium, New York University Abu Dhabi 10/2021 Mathematics Methods in the Theory of Electromagnetism, Padua 4/2019 Colloquium in Applied and Co		•	
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6/2018 Differential Equations and Applications, University of Padya		11/2024 2/2024 5/2023 5/2023 11/2022 9/2022 4/2022 3/2022 3/2022 1/2022 1/2022 10/2021 10/2021 3/2021 1/2021 4/2019 10/2018 7/2018	Statistics Seminar, University of Cambridge Collegio Fonda, Trieste Webinar on Scientific Machine Learning, NYCU, Taiwan Analysis seminar, University of Milan IAS Program on Inverse Problems, Imaging and PDEs, HKUST UMI AI&ML&MAT Partial Differential Equation and Applications Seminar, Warwick Seminari di Matematica Applicata, University of Pavia Machine Learning Seminar, Italian Institute of Technology Applied Analysis Seminar, University of Heidelberg OneWorld IMAGINE seminar Mathematics Colloquium, New York University Abu Dhabi Analysis & PDE Seminar, Cardiff University Inverse Problems Seminar Series, UCL – London Mathematical Methods in the Theory of Electromagnetism, Padua Colloquium in Applied and Computational Math., ETH Zürich
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5/2018	Seminar of Calculus of Variations and PDEs, $University$ of $Florence$
4/2018	D.A.T.A & Crostata Seminars, University of Genoa
10/2016	Analysis Seminar, Politecnico di Milano
10/2016	PDE Seminar, Université de Lorraine
6/2016	Analysis Seminar, Università di Trieste
10/2015	Inverse Problems Seminar Series, UCL – London
6/2015	Inverse Problems Seminar, IHP – Paris
2/2015	Applied Harmonic Analysis Seminar, Università di Genova
11/2014	ENS Analysis Seminar, ENS – Paris
10/2014	Maths for Imaging Seminar, ENS – Paris
5/2014	OxPDE Lunchtime Seminar, University of Oxford
3/2014	MACSI Seminar Series, University of Limerick
11/2013	Graduate Seminar, St Peter's College – Oxford University
2/2013	MIDA Seminar, Università di Genova
1/2013	OxPDE Junior Seminar, Oxford University
	University of Genoa
2022	Machine Learning Crash Course
2021-now	_
2021	Machine Learning for Inverse Problems, Calculus
2018-now	Functional analysis
2018-2019	Fourier Analysis
2017-2018	Analysis 1, Measure theory
	Assistant – ETH Zürich
2016	Mathematics of Super-Resolution Biomedical Imaging
2015	Numerical methods for Computational Science and Engineering
2010	
	Teaching assistant – University of Oxford
2013	Differential equations (Trinity and Hilary term)
2012	Hilbert spaces (Hilary term)

TEACHING

2012 2011

Banach spaces (Michaelmas term)