Michele Di Cristo
Politecnico di Milano, Dipartimento di Matematica
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piazza Leonardo da Vinci 32, 20133 Milano, Italy
skype: michele.dicristo

Employments and Education

2019–2028: Italian abilitation for full professor

2015–present: associated professor at Politecnico di Milano

2012–2014: visiting professor at KAUST Saudi Arabia

2011–2012: associated member of IAC-CNR (Italian National Research Council)

2007–2015: assistant professor at Politecnico of Milano

2005–2007: postdoctoral researcher (assegno di ricerca) at Politecnico of Milano

2005: Ph.D. in Mathematics, University of Milano, Italy

2000–2004 Phd student at University of Milano

1999–2000: researcher (assegno di ricerca) at University of Milano

1998 Laurea in Mathematics University of Trieste, Italy.

Scientific Interests

The research activity mainly deals with the study of inverse problems related to partial differential equations. In particular from a knowledge of the Cauchy data on the boundary of a given domain, it has been studied the problem of parameter and domain identification for elliptic and parabolic equations, elastic systems, Navier–Stokes equation and scattering problems.

Publications

Refereed Journals

M. Di Cristo, Y. Ren, **Stable determination of an inhomogeneous inclusion in a layered medium**, Applicable Analysis at press.

M. Di Cristo, G. Milan, **Reconstruction of inclusions in electrical conductors**, IMA Journal of Applied Mathematics 85 (2020), pp. 933–950.

M. Di Cristo **Stable determination of an inclusion in a layered medium with special anisotropy**, Springer Proceedings in Mathematics and Statistics 328 (2020), pp. 21–32.

M. Di Cristo, Y. Ren, **Three sphere inequality for second ordercelliptic equations with coefficients with jump discontinuity**, Journal of Differential Equations 266 (2019), pp. 936–941.

M. Di Cristo, Y. Ren, **Stable determination of an inclusion in a layered medium** Math. Meth. Appl. Sci. 41 (2018), pp. 4602–4611.

G. Alberti, G. Bal, M. Di Cristo, **Critical point for elliptic equations with prescribed boundary conditions**, Arch. Ration. Mech. Anal., 226 (2017), pp. 117–141.

M. Di Cristo, Y. Ren, **Stable determination of an inclusion for a class of anisotropic conductivities**, Inverse Problems 33 (2017), 15 pp.

M. Di Cristo, E. Francini, C.-L. Lin, S. Vessella, J.-N. Wang, **Carleman estimate for second order elliptic equations with Lipschitz leading coefficients and jumps at an interface**, J. Math. Pures Appl., 108 (2017), pp. 163–206.

G. Alessandrini, M. Di Cristo, E. Francini, S. Vessella, **Stability for Quantitative Photoacoustic Tomography with well chosen illuminations**, Annali di Matematica Pura e Applicata, 192 (2017), pp. 395–406.

M. Di Cristo, E. Sincich, S. Vessella, **Size Estimates of Unknown Boundaries with Robin Type Condition**. Proc. Roy. Soc. Edinburgh Sect. A, 147 (2017), pp. 727-741.

M. Di Cristo, **Stability analysis of the inverse inclusion problem**, Rend. Istit. Mat. Univ. Trieste, 48 (2016), pp. 433–462.

G. Alessandrini, M. Di Cristo, A. Morassi, E. Rosset, **Stable Determination of an Inclusion in an Elastic Body by Boundary Measurements**, SIAM J. Math. Anal. 46 (2014), pp. 2692—2729.

V. Bacchelli, M. Di Cristo, E. Sincich, S. Vessella, **A parabolic inverse problem with mixed boundary data. Stability estimates for the unknown boundary and impedance**, Trans. Amer. Math. Soc. 336 (2014), pp. 3965–3995.

M. Di Cristo, C-L. Lin, A. Morassi, E. Rosset S. Vessella, J-N. Wang, **Doubling inequalities for anisotropic plate equations and size estimates of inclusions**, Inverse Problems 29 (2013), 17pp.

M. Di Cristo, C-L. Lin, S. Vessella, J-N. Wang, **Size estimates of the inverse inclusion problem for the shallow shell equation**, SIAM J. Math. Anal. 45 (2013), pp. 88-100.

M. Di Cristo, C-L. Lin, J-N. Wang, **Quantitative uniqueness estimates for the shallow shell system and their application to an inverse problem**, Ann. Scuola Norm. Sup. Pisa Cl. Sci. 12 (2013), pp. 88-100.

F. Cakoni, M. Di Cristo, J. Sun, **A multistep gap functional method for the inverse problem in multilayered medium**, Complex Var. Elliptic Equ. 57 (2012), pp. 261–276.

M. Di Cristo, S. Vessella, **Stability Analysis of an Inverse Parabolic Problem with Discontinuous Variable Coefficient**, Proc. Roy. Soc. Edinburgh Sect. A 141 (2011), pp. 975–999.

M. Di Cristo, S. Vessella, **Stable Determination of the Discontinuous Conductivity Coefficient of a Parabolic Equation**, SIAM J. Math. Anal. 42 (2010), pp. 183–217.

J. Fan, M. Di Cristo, Y. Jiang, G. Nakamura, **Inverse viscosity problem for the Navier-Stokes equation**, J. Math Anal. Appl. 365 (2010), pp. 750–757.

M. Di Cristo, D. Guidetti, A. Lorenzi, **Abstract parabolic equations with applications to problems in cylindrical space domains**, Adv. Diff. Eq. 15 (2010), pp. 1–42.

M. Di Cristo, **Stability estimates in the inverse transmission scattering problem**, Inverse Probl. Imaging 3 (2009), pp. 551–565.

Y. Lei, M. Di Cristo, G. Nakamura, **Size Estimates in Thermal Imaging**, Appl. Anal. 88 (2009), pp. 831–846.

M. Di Cristo, J. Sun, **The Determination of the Support and Surface Conductivity of a Partially Coated Buried Object**, Inverse Problems 23 (2007), pp. 1161–1179.

M. Di Cristo, L. Rondi, **Examples of exponential instability for inverse elliptic problems with unknown boundaries**, J. Phys.: Conf. Ser. 73 (2007), pp. 1–18.

M. Di Cristo, **Stable determination of an inhomogeneous inclusion by local boundary measurements**, J. Comput. Appl. Math. 198 (2007), pp. 414–425.

M. Di Cristo, J. Sun, **An inverse scattering problem for a partially coated buried object**, Inverse Problems 22 (2006), pp. 2331–2350.

M. Di Cristo, L. Rondi, S. Vessella, **Stability properties for a parabolic inverse problems with unknown boundaries**, Annali di Matematica Pura e Applicata 185 (2006), pp. 223–255.

G. Alessandrini, M Di Cristo, **Stable determination of an inclusion by boundary measurements**, SIAM J. Math. Anal. 37 (2005), pp. 200–217.

M. Di Cristo, L. Rondi, **Examples of exponential instability for inverse inclusion and scattering problem**, Inverse Problems 19 (2003), pp. 685–701.

G. Alessandrini, M Di Cristo, **Unique determination of surface breaking cracks in three dimensional bodies**, J. Inverse Ill-Posed Probl. 8 (2000), pp. 469–482.

Submitted Papers

M. Di Cristo, L. Rondi, **Smoothness of the distance from the boundary up to a conformal change of the metric**.

M. Di Cristo, L. Rondi, **Interior decay of solutions to elliptic equations with respect to frequencies at the boundary**.

M. Di Cristo, **Stable determination of an inclusion from physical EIT measurements**

Unpublished Papers

M. Di Cristo, L. Rondi, **Examples of exponential instability for elliptic inverse problems**, arXiv:math.AP/0303126 (2003).

M. Di Cristo, **Stability and instability for inverse boundary value problems with unknown boundaries**, Ph.D.thesis University of Milano (2004).

M. Di Cristo, K. Kim, G. Nakamura **Estimate of the Fundamental Solution for Parabolic Operators with Discontinuous Coefficients**, arXiv:0906.4438 (2009).

G. Alessandrini, M. Di Cristo, A. Morassi, E. Rosset, **Stable Determination of an Inclusion in an Elastic Body by Boundary Measurements**, unabridged, arXiv:math.AP/ 1306.3349 (2014).

Academic Visits

Tata Institute of Fundamental Research, Bangalore, India 2016.
Institut Henri Poincaré, Paris, France 2015 (2 months for thematic quarter on inverse problems)
King Abdullah University of Science and Technology, Saudi Arabia, 2012 (4 months), 2013 (4 months), 2014 (6 months).
National Taiwan University, Taipei, Taiwan, 2008, 2012, 2013.
Fudan University, Shanghai China, 2010, 2012 (2 months).
Tongji University, Shanghai, China, 2010 (2 months), 2012 (2 months).

National Cheng Kung University, Tainan Taiwan, 2012.
Southeast University, Nanjing, China, 2010.
Wichita State University, Kansas, USA, 2009 (1 month).
Delaware State University, Delaware, USA, 2008 (1 month), 2009.
Hokkaido University, Japan, 2007 (2 months), 2009 (8 months).
Tokyo University, Japan, 2009.
Göttingen University, Germany, 2005.
University of Delaware, Delaware, USA, 2003 (1 month), 2006 (6 months), 2008, 2009.

Fellowships

2000 Miur (Italian Ministry of University) fellowship for 4 years of PhD studies at Università di Milano

2005 INdAM (Italian Institute of Mathematics) fellowship for 6 months visit at Delaware University, USA

2008 JSPS (Japan Society for Promotion of Science) fellowship for a 1 year visit at Hokkaido University, Japan

Referee Activity

Served as referee for the journals:
Inverse Problems, Journal of Scientific Computing, Inverse Problems and Imaging, Journal of Geophysics and Engineering, Journal of Physics: Conference Series, Inverse Problems in Science and Engineering, Journal of Mathematical Analysis and Applications, Applicable Analysis, Geophysics International, Journal of Applied Geophysic, Journal of Differential Equations, Mathematical Methods in the Applied Sciences, Journal of Inverse and Ill–Posed Problems Nonlinear Analysis Series A: Theory, Methods & Applications, Transactions of the American Mathematical Society, Applied Mathematics Letters.

Served as referee for the Italian Agency for the Evaluation of Universities and Research Institutes (ANVUR) for the VQR program 2004–2010.

Invited Colloquium and Plenary Talks

Recent developments in the inverse conductivity problem, at the conference *Mathematical and Numerical Approaches for Multi-Wave Inverse Problems Approches mathématiques et numériques pour les problèmes inverses de type multi-ondes*, Luminy Marseille, France, 01–05 April 2019.

Recent developments in the inverse conductivity problem, at the conference *PV-MI 2019 - Decima Giornata di Studio - Equazioni Differenziali e Calcolo delle Variazioni*, Politecnico di Milano, 21 February 2019.

A stability result for quantitative photoacoustic tomography, at the conference *Control Theory, Integral Geometry, Inverse Problems* Euler Institue, St. Petersburg, Russia, 12–18 June 2017.

A stability result for quantitative photoacoustic tomography, TIFR Centre for Applicable Mathematics, Bangalore, India, 21 Dec. 2016.

A stability result for quantitative photoacoustic tomography, at the conference *First Joint Meeting Brazil – Italy in Mathematics* Rio de Janeiro, Brazil 29 August–02 September 2016, in the minisymposium *Inverse Problems for PDEs*, organized by Professors M. Di Cristo, A. Leitao.

A stability result for quantitative photoacoustic tomography, at the conference *Inverse Problems: Modeling and Simulation* Fethiye, Turkey 23–28 May 2016, in the minisymposium *Geometric Inverse Problems*, organized by Professor A. Jollivet.

Size estimates in inverse problems, at the conference *Stability and Reconstruction Issues in Inverse Problems* Institut Henri Poincaré, Paris, France, 29 June–3 July 2015.

Size estimates in inverse problems, at the conference *Applied Inverse Problem* Helsinki, Finland 25–29 May 2015, in the minisymposium *Stability estimates for inverse problems*, organized by Professors V. Isakov, J-N. Wang.

Size Estimates in Inverse Problems, at the conference *Inverse Problems and Integral Geometry* Kaliningrad, Russia 13–16 October 2014.

Size Estimates in Inverse Problems, at the conference *Inverse problems and related topics* San Petersburg, Russia 18–22 August 2014.

Size Estimates in Inverse Problems, at the conference *The 10th AIMS Conference on Dynamical Systems Differential Equations and Applications* Madrid 7–10 July 2014, in the minisymposium *Direct and Inverse Problems in Wave Propagation*, organized by Professors F. Cakoni and F.J. Sayas.

Size Estimates in Inverse Problems, at the conference *Advances in Uncertainty Quantification Methods, Algorithms and Applications* KAUST, Saudi Arabia 6–10 January 2014.

Size Estimates of Unknown Boundaries, at the conference *Applied Inverse Problem* Daejeon, Korea 1–5 July 2013, in the minisymposium *Size Estimates*, organized by Professor J-N. Wang.

Size Estimates of Unknown Boundaries, at the conference *Applied Analysis for the Material Sciences on the occasion of Michael Vogelius' 60th birthday*, CIRM Luminy, France, 27–31 May 2013.

Stable determination of boundary and impedance with a Robin boundary condition, Fudan University, China, 28 Dec. 2012.

Stable determination of boundary and impedance with a Robin boundary condition, at the conference *International Conference on Inverse Problems and Related Topics 2012* Nanjing, China 21–26 Oct. 2012, in the minisymposium *Recent Advances in Inverse Scattering and Impedance Tomography*, organized by Professors J. Sun and B. Zhang.

Identificazione di frontiere incognite in problemi parabolici con condizioni di tipo Robin, at the conference *Equazioni differenziali alle derivate parziali* Politecnico di Milano, 13–15 Sep. 2012.

Stable determination of boundary and impedance with a Robin boundary condition, National Cheng Kung University, Taiwan, 24 Aug. 2012.

Stable determination of boundary and impedance with a Robin boundary condition, National Taiwan University, Taiwan, 22 Aug. 2012.

Stability analysis of an inverse parabolic problem with discontinuous coefficients, Fudan University, China, 29 Dec. 2010.

Stable Determination of the Discontinuous Conductivity Coefficient, University of Delaware, USA, 19 Nov. 2009.

Stable Determination of the Discontinuous Conductivity Coefficient, Delaware State University, USA, 17 Nov. 2009.

Stable Determination of the Discontinuous Conductivity Coefficient, Wichita State University, USA, 13 Nov. 2009.

Exponential Instability in Inverse Problems, Wichita State University, USA, 6 Nov. 2009.

Inverse scattering problems for buried obstacles at the conference *10th northeastern symposium on mathematical analysis*, Sendai, Japan 16-17 Feb. 2009.

Size Estimates for the Inverse Inclusion Problem, Taiwan National University, Taiwan, 19 Nov. 2008.

Size Estimates for the Inverse Inclusion Problem, Hokkaido University, Japan, 20 Oct. 2008.

Size Estimates for the Inverse Conductivity Problem, at the conference *The International Conference on Inverse Problems and its Applications* Shanghai China, 9–12 Oct 2008.

Size Estimates for the Inverse Conductivity Problem, Delaware State University, USA, 12 Aug. 2008.

Size Estimates for the Inverse Conductivity Problem, University of Delaware, USA, 05 Aug. 2008.

Inverse scattering problems for buried objects, Hokkaido University, Japan, 21 Jan. 2008.

Stability and Instability for Inverse Problems, Hokkaido University, Japan, 05 Dec 2007.

Problemi inversi di scattering per oggetti sommersi, University of Firenze 30 Nov. 2007.

An inverse scattering problem for a partially coated buried obstacle, at the conference *The Applied Computational Electromagnetic Annual Conference*, Verona, Italy, 19-23 Mar. 2007, in the minisymposium *Imaging Computation and Inverse Methods in Biomedicine*, organized by Professors M. Piana and S. Semenov.

An Inverse Scattering Problem for a Partially Coated Buried Obstacle, at the conference *VI Workshop on Non-linear Differential Equations and Applications*, Como, Italy 11–15 Sep. 2006.

Stability Properties of Inverse Parabolic Problems with Unknown Boundaries, at the conference *Inverse Problems in Applied Sciences*, Sapporo, Japan 03–07 Jul. 2006.

Stability and Instability of Inverse Boundary Value Problems, University of Delaware, USA, 22 Mar. 2006.

Stable determination of an inclusion by boundary measurements, University of Delaware, USA, 10 Mar. 2006.

Examples of exponential instability for elliptic and parabolic inverse problems, University of Göttingen, Germany, 13 Dec. 2005.

Stable determination of an inclusion by boundary measurements at the conference *Inverse problems, boundary control, integral geometry and related topics*, Khanty-Mansiysk, Russia dal 29 Aug.–2 Sep. 2005.

Stable determination of an inclusion by boundary measurements, at the conference *Applied Inverse Problems*, Royal Agricultural College, Cirencester, UK, 26–30 Jun. 2005, in the minisymposium *Fundamental issues of uniqueness and stability in inverse problems*, organized by Professors G. Alessandrini and Y. Kurylev.

Esempi di instabilità per problemi inversi, University of Firenze, 14 Apr. 2005.

Stabilità ed instabilità per il problema inverso dell'inclusione, University of Firenze, 24 Nov. 2004.

Stability and instability for inverse boundary value problems, at the summer school *Mathematical Geophysics & Uncertainty in Earth Models*, Colorado School of Mines, Colorado, USA 14–25 Jun. 2004.

Stable determination of an inclusion by boundary measurements, at the conference *Workshop on Applied Computational Inverse Problems*, IAC–CNR, Sesto Fiorentino, Italy 22–25 Mar. 2004.

Stabilità per il problema inverso dell'inclusione, University of Trieste, 15 Oct 2003.

Examples of exponential instability for inverse problems, at the conference *Third meeting on inverse and direct problems and applications*, Gargnano, Italy 31 Mar. 04 Apr. 2003.

Exponential instability in an inverse problem for the Schrödinger equation, University of Trieste, 14 Feb. 2002.

Abstract parabolic equations, at the conference *Second meeting on inverse and direct problems and applications*, Gargnano, Italy 02–06 Apr. 2001.

Unique determination of surface breaking cracks, at the conference *Developments in Wave Fields and Tomographic Inverse Problems*, University of Edinburgh, Edinburgh 3–5 Aug. 2000.

Conference Organizations

Organizer with Prof. A. Leitao of the minisymposium *Inverse Problems for PDEs* at the international conference *First Joint Meeting Brazil – Italy in Mathematics*, Rio de Janeiro, Brazil 29 August–02 September 2016.

Organizer with Prof. E. Francini of the minisymposium *Quantitative estimates of unique continuation and applications to inverse problems* at the international conference *Conference on Applied Inverse Problems*, Helsinki 24–29 May 2015.

Organizer with Prof. E. Beretta, C. Cavaterra, F. Messina of the workshop *Applications in inverse problems* Università di Milano, 26–29 January 2015.

Organizer with Prof. F. Gazzola of the conference *Equazioni differenziali alle derivate parziali* at Politecnico di Milano, 13–15 Sep. 2012.

Organizer with Prof. L. Rondi of the minisymposium *Discrete-like inverse problems: analysis and numerics* at the international conference *Conference on Applied Inverse Problems*, Vienna 20–24 Jul. 2009.

Grants

2019: Miur Grant P.I: Prof Andrea Cianchi.
2017 P.I. Mitsubishi grant.
2017: GNAMPA grant, P.I. Prof. Luca Rondi.
2016 P.I Mitshubishi grant

2016: P.I. of the GNAMPA grant.
2015: P.I. InActionwithMath grant (50000 euro).
2014: P.I. InActionwithMath grant (50000 euro).
2014: P.I. of the GNAMPA grant.
2013: P.I. InActionwithMath grant (50000 euro).
2013: young researcher grant, Politecnico di Milano.
2012: CNR bilateral action Italy–Taiwan, P.I. Prof. Gabriele Inglese.
2012: GNAMPA grant, P.I. Prof. Eva Sincich.
2011: GNAMPA grant, P.I. Prof. Luca Rondi.
2010: young researcher grant, Politecnico di Milano.
2009: GNAMPA grant, P.I. Prof. Luca Rondi.
2008: Miur grant, P.I. Prof. Andrea Cianchi.
2008: young researcher grant, Politecnico di Milano.
2008: GNAMPA grant, P.I. Prof. Luca Rondi.
2007: GNAMPA grant, P.I. Prof. Giovanni Alessandrini.
2006: Miur grant, P.I. Prof. Andrea Cianchi.
2006: GNAMPA grant, P.I. Prof. Giovanni Alessandrini.
2004: Miur grant, P.I. Prof. Giovanni Alessandrini.
2003: GNAMPA grant, P.I. Prof. Fiorella Sgallari.
2002: Miur grant, P.I. Prof. Giovanni Alessandrini.
2002: Miur grant, P.I. Prof. Giorgio Talenti.
2001: GNAMPA grant, P.I. Prof. Giovanni Alessandrini.
2000: Miur grant, P.I. Prof. Mario Bertero.
2000: young researcher grant, University of Milano.
1999: young researcher grant, University of Milano.
1997: Miur grant, P.I. Prof. Giorgio Talenti.

Teaching Experience

2020–2021
Analisi Matematica I (undergraduate course), Politecnico di Milano.
Analisi Matematica I e Geometria (undergraduate course), Politecnico di Milano.
Analisi Matematica II (undergraduate course), Politecnico di Milano.

2019–2020
Analisi Matematica I (undergraduate course), Politecnico di Milano.
Analisi Matematica I e Geometria (undergraduate course), Politecnico di Milano.
Analisi Matematica II (undergraduate course), Politecnico di Milano.

2018–2019
Analisi Matematica I (undergraduate course), Politecnico di Milano.
Analisi Matematica I e Geometria (undergraduate course), Politecnico di Milano.

2017–2018
Mathematical Methods for Physical Engineering (master course), Politecnico di Milano.

Analisi Matematica I (undergraduate course), Politecnico di Milano.
Analisi Matematica I e Geometria (undergraduate course), Politecnico di Milano.
Linear Algebra for Architecture (undergraduate course), Politecnico di Milano

2016–2017
Mathematical Methods for Materials Engineering (master course), Politecnico di Milano.
Mathematical Methods for Physical Engineering (master course), Politecnico di Milano.
Analisi Matematica I e Geometria (undergraduate course), Politecnico di Milano.
Linear Algebra for Architecture (undergraduate course), Politecnico di Milano

2015–2016
Functional Analysis and PDEs (Ph.D. course), Politecnico di Milano.
Mathematical Methods for Materials Engineering (master course), Politecnico di Milano.
Mathematical Methods for Physical Engineering (master course), Politecnico di Milano.
Analisi Matematica I e Geometria (undergraduate course), Politecnico di Milano.
Linear Algebra for Architecture (undergraduate course), Politecnico di Milano

2014–2015
Mathematical Methods for Materials Engineering (master course), Politecnico di Milano.
Analisi Matematica I (undergraduate course), Politecnico di Milano.

2013–14
Real and Functional Analysis (Ph.D. course) King Abdullah University of Science and Technology, Saudi Arabia.
Mathematical Methods for Materials Engineering (master course), Politecnico di Milano.
Analisi Matematica I e Geometria (undergraduate course), Politecnico di Milano.

2012–2013
Real and Functional Analysis (Ph.D. course) King Abdullah University of Science and Technology, Saudi Arabia.
Mathematics II (undergraduate course), Tongji University, China.
Mathematical Methods for Materials Engineering (master course), Politecnico di Milano.
Analisi Matematica I (undergraduate course), Politecnico di Milano.

2011–2012
Functional Analysis and PDEs (Ph.D. course), Politecnico di Milano.
Real and Functional Analysis (Ph.D. course) King Abdullah University of Science and Technology, Saudi Arabia.
Mathematical Methods for Materials Engineering (master course), Politecnico di

Milano.
Complementi di Analisi Matematica (master course), Politecnico di Milano.
Teaching assistant for Matematica Avanzata per l'Economia e le scienze sociali (master course), Bocconi University Milano, Italy, Prof. S. Salsa.

2010–2011
Analisi Matematica II (undergraduate course), Politecnico di Milano.
Mathematics II (undergraduate course), Tongji University, China.

2009–2010
Analisi Matematica C (undergraduate course), Politecnico di Milano.
Analisi Matematica B (undergraduate course), Politecnico di Milano.

2008–2009
Analisi Matematica C (undergraduate course), Politecnico di Milano.

2007–2008
Teaching assistant Analisi Matematica C, Politecnico di Milano.
Teaching assistant Analisi Matematica C, Politecnico di Milano.
Teaching assistant Equazioni Differenziali alle Derivate Parziali, Politecnico di Milano.

2006–2007
Teaching assistant Equazioni Differenziali, Politecnico di Milano.
Analisi Matematica A (undergraduate course), Politecnico di Milano.

2005–2006
Analisi Matematica A (undergraduate course), Politecnico di Milano.

Other didactic experiences

2010–present
Recruiting committee for gap instructors, Politecnico of Milano.
Recruiting committee for teaching assistants, Politecnico of Milano.

2011–2012
Qualifying Exams, King Abdullah University of Science and Technology, Arabia Saudita.

Phd Students

2015–2017 Advisor of Dr. Yong Ren, *Stability Analysis of Inclusions in Electrical Conductors*, Dipartimento di Matematica, Politecnico of Milano.

2013–2014 Coadvisor of the Ph.D thesis of Dr. Silvio Del Giudice, advisor Prof. Giancarlo Bernasconi, Dipartimento di Elettronica, Informazione e Bioingegneria, Politecnico of Milano.

Master Students

2017 Advisor of Dr. Giacomo Milan, *Numerical Reconstruction of Inclusions in electrical Conductors*, Dipartimento di Matematica, Politecnico of Milano

Course Organization

2014–2020 Scientific Director of the project In Action with Math, that offers classes to high school students for preparing the University entrance exam.

Department Services

2017–present Scientific Director of the Library of the Mathematics Department of Politecnico di Milano.

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[1] autorizzo il Politecnico di Milano a pubblicare il presente curriculum sul sito WEB di Ateneo, ai fini istituzionali e in ottemperanza al D. Lgs n. 33 del 14 marzo 2013 "Decreto trasparenza" come modificato dal D. Lgs. 97 del 2016