

Curriculum Vitae – Dario Daniele Monticelli

Born on December 3rd, 1975 in Milano (MI), Italy.
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Education

Ph. D. in Mathematics obtained on January 2007 at Università degli Studi di Milano, Department of Mathematics.

Ph. D. Thesis: “*Maximum Principles and Applications for a Class of Degenerate Elliptic Linear Operators*”.

Advisor: Prof. K. R. Payne

M. Sc. in Mathematics obtained on September 2002 at Università degli Studi di Milano, Department of Mathematics. Grade: 110/110 *cum laude*.

Thesis: “*Identità di tipo Pohozaev e risultati di non esistenza per problemi nonlineari*” (Pohozaev type identities and nonexistence results for nonlinear problems).

Supervisor: Prof. K. R. Payne

Qualification

Qualification for the position of *professore di I fascia* (full professor), area 01/A3 (Mathematical Analysis, Probability and Mathematical Statistics) - Abilitazione Scientifica Nazionale - valid from May 10th, 2019 until May 9th, 2028.

Professional Experience

Professore di II fascia di Analisi Matematica (Associate Professor in Mathematical Analysis) at the Department of Mathematics of Politecnico di Milano. From October 2018 until today.

Ricercatore a tempo determinato di tipo b) (fixed term researcher - senior) at the Department of Mathematics of Politecnico di Milano. From October 2015 until September 2018.

Ricercatore a tempo determinato di tipo a) (fixed term researcher - junior) at the Department of Mathematics of Università degli Studi di Milano. From October 2012 until September 2015.

Research contract – occasional freelance work – at the Department of Mathematics of Politecnico di Milano. Project title: “*Equazioni Differenziali del Secondo Ordine di Tipo Misto*” (Second order mixed type partial differential equations). Supervisor: Prof. D. Lupo. From May 2011 until August 2011.

Assegnista di ricerca (post-doc) at the Department of Mathematics of Università degli Studi di Milano. Research project title: “*Proprietà Qualitative per Soluzioni di Equazioni Differenziali Ellittiche Degeneri*” (Qualitative properties of solutions of degenerate elliptic partial differential equations). Supervisor: Prof. K.R. Payne. From November 2006 until October 2010.

Research interests

Qualitative properties of solutions of elliptic and degenerate elliptic partial differential equations

Partial differential equations of mixed elliptic/hyperbolic type

Elliptic and parabolic partial differential equations on Riemannian manifolds

Nonlinear analysis and calculus of variations

Global analysis

Publications (in refereed journals)

1. D.D. Monticelli e K. R. Payne. “*Maximum Principles for weak solutions of degenerate elliptic equations with a uniformly elliptic direction*”, J. Differential Equations 247 (2009), no. 7, 1993–2026.
2. D.D. Monticelli. “*Maximum Principles and the method of Moving Planes for a class of degenerate elliptic linear operators*”, J. Eur. Math. Soc. 12 (2010), no. 3, 611–654.
3. D.D. Monticelli, S. Rodney e R. Wheeden. “*Boundedness of weak solutions of degenerate quasilinear equations with rough coefficients*”, Differential Integral Equations 25, no. 1–2 (2012), 143–200.
4. Y.Y. Li e D.D. Monticelli. “*On fully nonlinear CR invariant equations on the Heisenberg group*”, J. Differential Equations 252 (2012), no. 2, 1309–1349.
5. D. Lupo, D.D. Monticelli e K.R. Payne. “*Spectral theory for linear operators of mixed type and applications to nonlinear Dirichlet problems*”, Comm. Partial Differential Equations 37 (2012), no. 9, 1495–1516.
6. Y.Y. Li, P. Mastrolia e D.D. Monticelli. “*On conformally invariant equations on \mathbf{R}^n – II. Exponential invariance*”, Nonlinear Anal. TMA 75 (2012), no. 13, 5194–5211.
7. D. Lupo, D.D. Monticelli e K.R. Payne. “*Fredholm properties and nonlinear Dirichlet problems for mixed type operators*”, J. Math. Anal. Appl. 397 (2013), no. 2, 837–860.

8. P. Mastrolia, D.D. Monticelli e M. Rigoli. “*A note on Curvature of Riemannian Manifolds*”, J. Math. Anal. Appl. 399 (2013), no. 2, 505–513.
9. Y.Y. Li, P. Mastrolia e D.D. Monticelli. “*On conformally invariant equations on \mathbf{R}^n* ”, Nonlinear Anal. TMA 95 (2014), 339–361.
10. R. Frank, M.d.M. González, D.D. Monticelli e J. Tan. “*An extension problem for the CR fractional Laplacian*”, Adv. in Math. 270 (2015), 97–137.
11. D. Lupo, D.D. Monticelli e K.R. Payne. “*Variational characterizations of weak solutions to the Dirichlet problem for mixed type equations*”, Comm. Pure Appl. Math. 68 (2015), no. 9, 1569–1586.
12. P. Mastrolia e D.D. Monticelli. “*On the relation between conformally invariant operators and some geometric tensors*”, Rev. Math. Iberoam. 31 (2015), no. 1, 303–312.
13. D. Lupo, D.D. Monticelli e K.R. Payne. “*On the Dirichlet problem of mixed type for lower hybrid waves in axisymmetric cold plasmas*”, Arch. Rational Mech. Anal. 217 (2015), no. 1, 37–69.
14. P. Mastrolia, D.D. Monticelli e F. Punzo. “*Nonexistence results for elliptic differential inequalities with a potential on Riemannian manifolds*”, Calc. Var. Partial. Diff. Eq. 54 (2015), no. 2, 1345–1372.
15. D.D. Monticelli, S. Rodney e R.L. Wheeden. “*Harnack’s inequality and Hölder continuity for weak solutions of degenerate quasilinear equations with rough coefficients*”, Nonlinear Anal. TMA 126 (2015), 69–114.
16. D.D. Monticelli e S. Rodney. “*Existence and spectral theory for weak solutions of Neumann and Dirichlet problems for linear degenerate elliptic operators with rough coefficients*”, J. Differential Equations 259 (2015), no. 8, 4009–4044.
17. C. Bandle, P. Mastrolia, D.D. Monticelli e F. Punzo. “*On the stability of solutions of semilinear elliptic equations with Robin boundary conditions on Riemannian manifolds*”, SIAM Journal on Math. Anal. 48 (2016), no. 1, 122–151.
18. G. Catino, P. Mastrolia e D.D. Monticelli. “*A variational characterization of flat spaces in dimension three*”, Pacific J. Math. 282 (2016), no. 2, 285–292.
19. G. Catino, P. Mastrolia, D.D. Monticelli e M. Rigoli. “*Conformal Ricci solitons and related integrability conditions*”, Adv. Geom. 16 (2016), no. 3, 301–328.
20. G. Catino, P. Mastrolia e D.D. Monticelli. “*Classification of expanding and steady Ricci solitons with integral curvature decay*”, Geom. Top. 20 (2016), no. 5, 2665–2685.
21. G. Catino, P. Mastrolia, D.D. Monticelli e M. Rigoli. “*Analytic and geometric properties of generic Ricci solitons*”, Trans. Amer. Math. Soc. 368 (2016), no. 11, 7533–7549.

22. P. Mastrolia, D.D. Monticelli e F. Punzo. “*Nonexistence of solutions to parabolic differential inequalities with a potential on Riemannian manifolds*”, *Math. Ann.* 367 (2017), no. 3–4, 929–963.
23. G. Catino, P. Mastrolia, D.D. Monticelli e M. Rigoli. “*On the geometry of gradient Einstein-type manifolds*”, *Pacific J. Math.* 286 (2017), no. 1, 39-67.
24. G. Catino, P. Mastrolia, D.D. Monticelli. “*Gradient Ricci solitons with vanishing conditions on Weyl*”, *J. Math. Pure. Appl.* 108 (2017), no. 1, 1-13.
25. D.D. Monticelli, F. Punzo, B. Sciunzi. “*Nonexistence of stable solutions to quasilinear elliptic equations on Riemannian manifolds*”, *J. Geom. Anal.* 27 (2017), no. 4, 3030-3050.
26. P. Mastrolia, D.D. Monticelli, F. Punzo. “*Elliptic and parabolic equations with Dirichlet conditions at infinity on Riemannian manifolds*”, *Adv. Differential Equations* 23 (2018), no. 1-2, 89-108.
27. D.D. Monticelli, F. Punzo. “*Nonexistence results for elliptic differential inequalities with a potential in bounded domains*”, *Discrete Contin. Dyn. Syst. - Series A* 38 (2018), no. 2, 675-695.
28. C. Bandle, D.D. Monticelli, F. Punzo. “*Reaction–diffusion problems on time–dependent Riemannian manifolds: stability of periodic solutions*”, *SIAM Journal on Math. Anal.* 50 (2018), no. 6, 6082-6099.
29. D.D. Monticelli, K.R. Payne, F. Punzo. “*Poincaré inequalities for Sobolev spaces with matrix valued weights and applications to degenerate partial differential equations*”, *Proc. Roy. Soc. Edinburgh Sect. A.* 149 (2019), no. 1, 61-100.
30. D.D. Monticelli, F. Punzo. “*Distance from submanifolds with boundary and applications to Poincaré inequalities and to elliptic and parabolic problems*” *J. Differential Equations* 267 (2019), no. 7, 4274-4292.
31. G. Catino, D.D. Monticelli, F. Punzo. “*The Poisson equation on manifolds with positive essential spectrum*”, *Calc. Var. Partial. Diff. Eq.* 58 (2019), no. 4, Paper No. 146, 16 pp.
32. D.D. Monticelli, F. Punzo, M. Squassina. “*Nonexistence for hyperbolic problems on Riemannian manifolds*”, *Asympt. Anal.* 120 (2020), no. 1-2, 87-101.
33. D.D. Monticelli, S. Rodney. “*An improved compact embedding theorem for degenerate Sobolev spaces*”, *Matematiche (Catania)* 75 (2020), no. 1, 259–275.
34. G. Catino, D.D. Monticelli, F. Punzo. “*The Poisson equation on Riemannian manifolds with weighted Poincaré inequality at infinity*”, *Ann. Mat. Pura e Appl.* 2020. DOI:10.1007/s10231-020-01014-0, 24 pp.

Preprints

35. G. Catino, P. Mastrolia, D.D. Monticelli, F. Punzo. “*Four dimensional closed manifolds admit a weak harmonic Weyl metric*”, submitted.

Talks at conferences and seminars

- “*Poincaré inequalities for Sobolev spaces with matrix valued weights and applications*”, Università degli Studi di Catania. July 2019.
- “*The Poisson equation on Riemannian manifolds with weighted Poincaré inequality at infinity*”, “*Nonlinear Geometric PDE’s*”, Birs, Banff, Canada. May 2019.
- “*Nonexistence results for semilinear hyperbolic problems on Riemannian manifolds*”, “*Brescia-Trento nonlinear day*”, Università di Trento. May 2019.
- “*Reaction-diffusion problems on time-dependent Riemannian manifolds: stability of periodic solutions*”, “*International Conference on Elliptic and Parabolic Problems*”, section “*Singular and degenerate PDEs*”, Gaeta. May 2019.
- “*The Poisson equation on Riemannian manifolds with weighted Poincaré inequality at infinity*”, Università degli Studi di Catania. April 2019.
- “*Reaction-diffusion problems on time-dependent Riemannian manifolds: stability of periodic solutions*”, “*ICMC Summer Meeting on Differential Equations 2019*”, São Carlos, Brasil, section “*Evolution Equations and Applications*”. February 2019.
- “*The Poisson equation on Riemannian manifolds*”, “*Joint Meeting of UMI-SIMAI-PTM*”, section “*Nonlinear Variational Methods with Applications*”, Wrocław, Polonia. September 2018
- “*Poincaré inequalities for Sobolev spaces with matrix valued weights and applications*”, section “*Advances in Harmonic Analysis and PDEs*”, “*2018 Summer Meeting of the Canadian Mathematical Society*”, University of New Brunswick, Fredericton, Canada. June 2018.
- “*Poincaré inequalities for Sobolev spaces with matrix valued weights and applications*”, Sapienza Università di Roma. January 2018.
- “*On the Dirichlet problem for geometric equations of mixed elliptic-hyperbolic type*”, “*RISM workshop in PDE on the occasion of Daniela Lupo’s 60th birthday*”, Varese, Italy. July 2017.
- “*Nonexistence of Stable Solutions to Quasilinear Elliptic Equations on Riemannian Manifolds*”, “*International Conference on Elliptic and Parabolic Problems*”, Gaeta, Italy, section “*Theory and methods in nonlinear analysis*”. May 2017.

- “On the stability of solutions of semilinear elliptic equations with Robin boundary conditions on Riemannian manifolds”, “Convegno GNAMPA 2016”, Montecatini Terme, Italy. June 2016.
- “Nonexistence of positive solutions for elliptic and parabolic differential inequalities with a potential on Riemannian manifolds”, “9th European Conference on Elliptic and Parabolic Problems”, section “Elliptic and Parabolic Problems: Theoretical Aspects, Methods and Applications”, Gaeta, Italy. May 2016.
- “On the Dirichlet problem of mixed type for lower hybrid waves in axisymmetric cold plasmas”, “9th European Conference on Elliptic and Parabolic Problems”, section “Variational Methods and Transportation Problems”, Gaeta, Italy. May 2016.
- “Nonexistence of positive solutions for differential inequalities with a potential on Riemannian manifolds”, Università della Calabria. March 2016.
- “On the Dirichlet problem of mixed type for lower hybrid waves in axisymmetric cold plasmas”, Politecnico di Milano. November 2015.
- “Nonexistence results for elliptic and parabolic differential inequalities with a potential on Riemannian manifolds”, “Workshop on Geometric and Spectral Analysis”, Fédération des unités de recherche mathématiques de Marseille (FRUMAM). April 2015.
- “Regularity results for weak solutions of degenerate quasilinear equations with rough coefficients”, section “Advances in Harmonic Analysis and Partial Differential Equations”, “AMS Fall Eastern Sectional Meeting”, Dalhousie University, Halifax, Canada. October 2014.
- “An extension problem for the CR fractional Laplacian”, Università di Milano-Bicocca. April 2014.
- “Variational characterization of weak solutions to the Dirichlet problem for some classes of mixed elliptic–hyperbolic equations”, “Variational methods in elliptic equations and systems”, CMAF, Universidade de Lisboa, Portugal. January 2014.
- “Spectral theory and variational principles for the Dirichlet problem for operators of mixed type”, “2013 Summer Meeting of the Canadian Mathematical Society”, section “Nonlinear PDE’s and their applications”, Dalhousie University and Saint Mary’s University, Halifax, Canada. June 2013.
- “Hilbert space methods for Partial Differential Equations”, Undergraduate Seminar, Cape Breton University, Sydney, Canada. June 2013.
- “Equazioni differenziali conformemente invarianti in \mathbf{R}^n ”, Università degli Studi di Milano. March 2013.
- “On some fully nonlinear equations with invariances on the Heisenberg group”, Università degli Studi di Padova. November 2011.

- “*On fully nonlinear CR invariant equations on the Heisenberg group*”, “*9nes Jornades d’Interacció entre Sistemes Dinàmics i Equacions en Derivades Parcial (JISD2011)*”, Workshop in Barcelona, Universitat Politècnica de Catalunya (UPC). June 2011.
- “*On some fully nonlinear equations with invariances on the Heisenberg group*”, Università degli Studi di Milano. May 2011.
- “*Boundedness of weak solutions of degenerate quasilinear equations with rough coefficients*”, Università degli Studi di Milano. May 2010.
- “*On some fully nonlinear CR-invariant equations on the Heisenberg group*”, Nonlinear Analysis And PDE Seminars, Rutgers University, New Brunswick, NJ, USA. April 2009.
- “*Maximum principles and weak solutions for a class of degenerate elliptic operators*”, Nonlinear Analysis And PDE Seminars, Rutgers University, New Brunswick, NJ, USA. December 2007.
- “*A nonexistence result for a class of nonlinear degenerate elliptic equations*”, “*Nonlinear Differential Equations*”, Workshop in Como, Politecnico di Milano e Università degli Studi di Milano. September 2006.
- “*A nonexistence result for a nonlinear degenerate elliptic equation*”, “*Nonlinear Analysis and Calculus of Variations*”, School in Pisa, Scuola Normale Superiore e Università di Pisa. October 2005.

Stays at foreign research institutes

Visiting Scholar at Rutgers University, New Brunswick, New Jersey, USA. From September 2007 until July 2008.

Cape Breton University, Sydney, Nova Scotia, Canada. One week in June 2013, two weeks in June 2018.

Rutgers University, New Brunswick, New Jersey, USA. One week in April 2009, one week in April 2010, one week in February 2011, one week in April 2012, one week in April 2014.

Funding

Principal Investigator:

- research project “*Equazioni differenziali con invarianze in analisi globale*” funded by GNAMPA INdAM 2013
- research project “*Equazioni ellittiche e paraboliche in analisi geometrica*” funded by GNAMPA INdAM 2020
- research project “*Equazioni Differenziali Ellittiche e Degeneri ed Analisi Globale*” funded by Università degli Studi di Milano, 2014.

- Winner of FABBR funded by MIUR, December 2017.
- GNAMPA INdAM 2015 contribution for visiting professor (prof. S. Rodney, Cape Breton University, Canada) at the Department of Mathematics, Università degli Studi di Milano.

Participant:

- research project “*Equazioni Differenziali su Varietà Riemanniane ed Analisi Globale*” funded by GNAMPA INdAM 2019 (P.I. prof. F. Punzo, Politecnico di Milano)
- research project “*Strutture di tipo Einstein e Analisi Geometrica su varietà Riemanniane e Lorenziane*” funded by GNAMPA INdAM 2017 (P.I. prof. P. Mastrolia, Università degli Studi di Milano).
- research project “*Strutture speciali e PDEs in Geometria Riemanniana*” funded by GNAMPA INdAM 2016 (P.I. prof. G. Catino, Politecnico di Milano).
- research project “*Analisi Globale, PDE’s e Strutture Solitoniche*” funded by GNAMPA INdAM 2015 (P.I. prof. F. Punzo, Politecnico di Milano).
- research project “*Analisi globale ed operatori degeneri*” funded by GNAMPA INdAM 2014 (P.I. prof. F. Punzo, Politecnico di Milano).
- research group “*Analisi non lineare e applicazioni: modelli e metodi*” of Politecnico di Milano, from 2015 (P.I. prof. D. Pierotti, Politecnico di Milano).
- research project PRIN-2015KB9WPT-010, Grant: “*Variational methods, with applications to problems in mathematical physics and geometry*” funded by MIUR (P.I. prof. A. Malchiodi, SNS Pisa).
- research project PRIN-2007 “*Metodi variazionali e topologici nello studio di fenomeni non lineari*” funded by MIUR (P.I. prof. V. Benci)
- research project PRIN-2009 “*Metodi variazionali e topologici nello studio di fenomeni non lineari*” funded by MIUR (P.I. prof. V. Benci)
- research project “*Regularity of Weak Solutions to Degenerate Nonlinear/Quasilinear Equations with Rough Coefficients*”, Canadian 2012 NSERC grant (P.I. prof. S. Rodney, Cape Breton University, Canada)

Other activities

- Member of the Faculty Board of the Ph.D. “Scienze Matematiche”, Università degli Studi di Milano, Academic Year 2014/2015 (Dottorato XXX ciclo).
- Co-organizer (with P. Mastrolia and F. Punzo) of the workshop “*Global Analysis and PDE’s @ UniMi*”, 27-28 November 2014, Università degli Studi di Milano.

- Co-organizer (with V. Vespri and others) of the workshop “*Harnack’s inequalities and nonlinear operators*”, funded by INdAM, Cortona 18-23 June 2017.
- Co-organizer (with G. Catino, N. Soave and G. Verzini) of the workshop “*Analytic and Geometric Aspects of PDEs*”, 27-30 May 2019, Politecnico di Milano.
- Co-organizer of some seminars in PDE’s at Università degli Studi di Milano.
- Editor (with D. Andreucci, U. Gianazza, F. Punzo, V. Vespri) of the book *Harnack Inequality and Nonlinear Operators*, Springer INdAM Series (to appear)
- Member of the Evaluation Committee for the selection of a *ricercatore a tempo determinato di tipo a*) (fixed term researcher - junior) in Mathematical Analysis, at the Università degli Studi dell’Insubria. (2020).
- Member of some Evaluation Committees for the selection of Teaching Assistants for courses in Mathematical Analysis and Geometry, at Politecnico di Milano, (2015-present)
- Member of INdAM (Istituto Nazionale di Alta Matematica), national group GNAMPA (Gruppo Nazionale per l’Analisi Matematica, la Probabilità e le Applicazioni), section “*Equazioni differenziali e sistemi dinamici*”. 2006-present.
- Academic Responsible (with others) for the Erasmus Exchange Program for the M. Sc. and B. Sc. in Mathematical Engineering, Politecnico di Milano, 2019-present.
- Referee for *Advances in Nonlinear Analysis, Calculus of Variations and PDEs, Proceeding of the AMS, Transactions of the AMS, Analysis in theory and applications, Annales de l’Institut Henri Poincaré - Analyse non lineaire, Zeitschrift für Analysis und ihre Anwendungen, Mathematische Nachrichten, Nonlinear Analysis: Theory Methods and Applications, Discrete and Continuous Dynamical Systems (Series A), Milan Journal of Mathematics, Potential Analysis, Revista Matemática Iberoamericana, Electronic Journal of Differential Equations, Acta Mathematica Scientia, Far East Journal of Mathematical Sciences* and *Iranian Journal of Science and Technology*.
Reviewer for *Mathematical Reviews*.

Teaching activity

Ph.D. Courses:

- *Principi di massimo e applicazioni ad equazioni differenziali ellittiche e paraboliche del secondo ordine*, (Maximum principles and applications for second order elliptic and parabolic equations), with F. Punzo, Politecnico di Milano, A.Y. 2017-18.
- *Principi di massimo per equazioni ellittiche e paraboliche*, (Maximum principles for elliptic and parabolic equations), with F. Punzo, Politecnico di Milano, A.Y. 2018-19.

Courses:

- *Elementary Differential Equations*, Rutgers University, New Brunswick, New Jersey, USA. Level-200. A.Y. 2007-08 (2 courses).
- *Analisi Matematica B e C* (Calculus B and C), Politecnico di Milano, B. Sc. in Chemical Engineering, Electrical Engineering, Materials Engineering and Nanotechnology. A.Y. 2011-12.
- *Equazioni Differenziali* (Ordinary and Partial Differential Equations), Politecnico di Milano, B. Sc. in Civil Engineering. A.Y. 2011-12, 2015-16.
- *Analisi I e Geometria* (Calculus I and Geometry), Politecnico di Milano, B. Sc. in Management Engineering. A.Y. 2012-13.
- *Laboratorio di Metodi Matematici e Statistici* (Mathematical and Statistical methods), Università degli Studi di Milano, B. Sc. in Biology. A.Y. 2013-14.
- *Analisi Matematica 2* (Calculus 2), Politecnico di Milano, B. Sc. in Civil Engineering. A.Y. 2016-17.
- *Equazioni Differenziali alle Derivate Parziali* (Partial Differential Equations), Politecnico di Milano, B. Sc. in Civil Engineering, Lecco. A.Y. 2017-18.
- *Analisi Matematica 1* (Calculus 1), Politecnico di Milano, B. Sc. in Electric Engineering, Electronics Engineering, Computer Science and Engineering, Automation and Control Engineering, Telecommunication Engineering. A.Y. 2017-18, 2018-19, 2019-20, 2020-21.
- *Analisi Matematica I* (Calculus I), Politecnico di Milano, B. Sc. in Mathematical Engineering. A.Y. 2018-2019, 2019-20, 2020-21.

Teaching Assistant for the courses:

- *Equazioni Differenziali Ordinarie* (Ordinary Differential Equations), Politecnico di Milano, B. Sc. in Civil Engineering (prof. D. Lupo). A.Y. 2003-04, 2005-06.
- *Analisi Matematica B* (Calculus B), Politecnico di Milano, B. Sc. in Civil Engineering. A.Y. 2004-05, 2006-07, 2008-09, 2010-11 (prof. D. Lupo). A.Y. 2011-12 (prof. T. Collini).
- *Equazioni Differenziali alle Derivate Parziali* (Partial Differential Equations), Politecnico di Milano, B. Sc. in Civil Engineering (prof. D. Lupo). A.Y. 2005-06.
- *Analisi Matematica I* (Calculus I), Università degli Studi del Piemonte Orientale “A. Avogadro”, B. Sc. in Mathematics (prof. F. Gastaldi). A.Y. 2009-10.
- *Equazioni Differenziali* (Ordinary and Partial Differential Equations), Politecnico di Milano, B. Sc. in Civil Engineering (prof. D. Lupo). A.Y. 2009-10, 2011-12.

- *Analisi Matematica 2* (Calculus 2), Politecnico di Milano, B. Sc. in Computer Science and Engineering (prof. D. Cassani). A.Y. 2010-11.
- *Analisi Matematica B e C* (Calculus B and C), Politecnico di Milano, B.Sc. in Chemical Engineering, Electrical Engineering, Materials Engineering and Nanotechnology (prof. D. Pierotti). A.Y. 2010-11.
- *Analisi Matematica I* (Calculus I), Politecnico di Milano, B. Sc. in Mathematical Engineering (prof. M. Verri). A.Y. 2010-11.
- *Analisi Matematica 1* (Calculus 1), Politecnico di Milano, B. Sc. in Civil Engineering (prof. A. Iannelli). A.Y. 2010-11.
- *Analisi Matematica II* (Calculus II), Politecnico di Milano, B. Sc. in Mathematical Engineering (prof. D. Pierotti). A.Y. 2011-12.
- *Analisi Matematica II* (Calculus II), Politecnico di Milano, B. Sc. in Biomedical Engineering (prof. A. Iannelli). A.Y. 2011-12.
- *Mathematical Methods for Materials Engineering* (Ordinary and Partial Differential Equations, in English), Politecnico di Milano, B. Sc. in Materials Engineering and Nanotechnology. (prof. M. Di Cristo). A.Y. 2011-12.
- *Analisi Matematica 2* (Calculus 2), Università degli Studi di Milano, B. Sc. in Physics (prof. E. Paparoni). A.Y. 2012-13, 2013-14.
- *Laboratorio di Metodi Matematici e Statistici* (Mathematical and Statistical methods), Università degli Studi di Milano, B. Sc. in Biology (prof. G. Aletti). A.Y. 2012-13.
- *Analisi Matematica 1* (Calculus 1), Università degli Studi di Milano, B. Sc. in Physics. (prof. M. Salvatori). A.A. 2013-14, 2014-15.
- *Analisi Matematica 2* (Calculus 2), Università degli Studi di Milano, B. Sc. in Mathematics (prof. K.R. Payne). A.Y. 2014-15.
- *Real and Functional Analysis* (in English), Politecnico di Milano, M. Sc. in Mathematical Engineering (prof. M. Grasselli). A.Y. 2016-17, 2017-18.

Tutoring:

- *Analisi Reale* (Real Analysis), Università degli Studi di Milano, M. Sc. in Mathematics (proff. K. R. Payne and M. Vignati). A.Y. 2006-07.
- *Analisi 4* (Analysis 4), Università degli Studi di Milano, M. Sc. in Mathematics (prof. K. R. Payne). A.Y. 2010-11.
- *Precourse in Mathematics*, Politecnico di Milano. A.Y. 2010-11, 2011-12.

Dario Daniele Monticelli

Milano, February 7th, 2021

Dario Daniele Monticelli