# Curriculum Vitae


## Rita Pini


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### Personal data


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| Office address: | Department of Mathematics and Applications<br>Via Cozzi 55, 20125 Milano, Italy |
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### Education

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| 1979/1983 | Degree in Mathematics, University of Milano, July 1983. |

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### Academic position

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| 2001/- | Full Professor, University of Milano-Bicocca, Italy |
| 1992/2001 | Associate Professor, University of Milano (1992-1998), University of Milano-Bicocca (1998-2001), Italy |
| 1987/1992 | Researcher, University of Verona, Italy |

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### Visiting Appointments

Visiting professor:

- Flinders University (Adelaide), and University of the New South Wales (Sydney) (July-August 1989)
- Flinders University (Adelaide), and University of the New South Wales (Sydney) (July-August 1990)
- Chalmers University of Technology (Göteborg) (August-November 1995)

## Research interests

Equilibrium problems, Generalized convexity, Generalized monotonicity, Nonlinear optimization, Variational analysis, Convexity in Carnot groups.

## Organizing Committee of Workshops

- Workshop on Vector Optimization and Multicriteria Games, University of Milano-Bicocca and Catholic University (Milan), May 6-7, 2010
- Workshop on Optimization and Related Topics, University of Milano-Bicocca and Catholic University (Milan), May 5-6, 2011
- Workshop on Optimization and Variational Analysis, University of Milano-Bicocca and Catholic University (Milan), May 10-11, 2012
- Workshop on Optimization and Variational Analysis, University of L'Aquila, May 9-10, 2013
- Workshop on Optimization, Game Theory and Related Topics, University of Genova, May 8-9, 2014
- Workshop on Variational Analysis, Game Theory and related Topics, University of Genoa, May 7-8, 2015
- Workshop on Variational Analysis, Equilibria and Optimization, University of Pisa, May, 29-30, 2017
- Workshop on Optimization and Related Topics, Catholic University (Milan)-University of Pavia, May 17-18, 2018
- Afternoon Workshop in Optimization, Catholic University (Milan), February 26, 2019

## Selected professional services

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| Referee | SIAM Journal of Optimization, Mathematical Programming, Journal of Mathematical Analysis and Applications, Journal of Global Optimization, Journal of Optimization Theory and Applications, Journal of Convex Analysis, Optimization, European Journal of Operational Research, Numerical Functional Analysis and Optimization, Applied Mathematics Letters, Computers and Mathematics with Applications. |
| Reviewer | Zentralblatt MATH |

## Teaching experience

The teaching experience includes the following courses delivered at Faculties of Economics and Schools of Sciences at the undergraduate and graduate level, as well as at the Ph.D. level

- Calculus
- Real Analysis
- Mathematics for Economics (Linear Algebra, Optimization, Dynamical Systems, Decision Theory)
- Measure Theory
- Functional Analysis
- Complex Analysis

## Publications


1. A. Calogero, R. Pini, On the H-cone-functions for H-convex sets, J. Convex Anal. 26 (2019), 967-989
2. I. Mehrabinezhad, R. Pini, A. Uderzo, Existence and continuity of solution trajectories of generalized equations with application in electronics. Nonlinear Anal. Real World Appl. 45 (2019), 414-436
3. M. Bianchi, I.V. Konnov, R. Pini, Limit vector variational inequality problems via scalarization. J. Global Optim. 72 (2018), 579-590
4. M. Bianchi, G. Kassay, R. Pini, On a sufficient condition for weak sharp efficiency in multiobjective optimization, J. Optim. Theory Appl. 178 (2018), 78-93
5. M. Bianchi, N. Hadjisavvas, R. Pini, Representative functions of maximally monotone operators and bifunctions, Math. Progr. B 168 (2018), 433-448
6. M. Bianchi, I. Konnov, R. Pini, Barrier methods for equilibrium problems, Pure Appl. Funct. Anal. 2 (2017), 1-10
7. Z.M. Balogh, A. Calogero, R. Pini, On the local boundedness of maximal monotone operators Nonlinear Analysis-Theory, Methods and Applications 148 (2017), 88-105
8. M. Bianchi, G. Kassay, R. Pini, Stability of equilibria via regularity of the diagonal subdifferential operator. Set-Valued Var. Anal. 25 (2017), 789-805
9. M. Bianchi, M., G. Kassay, R. Pini, Linear openness of the composition of set-valued maps and applications to variational systems, Set-Valued Var. Anal. 24 (2016), 581-595

10. M. Bianchi, G. Kassay, R. Pini, Stability results of variational systems under openness with respect to fixed sets, J. Optim. Theory Appl. 164 (2015), 92-108

11. A. Calogero, R. Pini, On Minty's theorem in the Heisenberg group. Nonlinear Anal. 104 (2014), 12-20

12. Z.M. Balogh, A.Calogero, R. Pini, The Hopf-Lax formula in Carnot groups: a control theoretic approach. Calc. Var. Partial Differential Equations 49 (2014), 1379-1414

13. M.H. Alizadeh, M. Bianchi, N. Hadjisavvas, R. Pini, On cyclic and $n$-cyclic monotonicity of bifunctions. J. Global Optim. 60 (2014), 599-616

14. M. Bianchi, G. Kassay, R. Pini, An inverse map result and some applications to sensitivity of generalized equations, J. Math. Anal. Appl. 399 (2013), 279-90

15. M. Bianchi, E. Miglierina, E. Molho, R. Pini, Some results on condition numbers in convex multiobjective optimization, Set-Valued Var. Anal. 21 (2013) 47-65

16. A. Calogero, R. Pini, $c$-horizontal convexity on Carnot groups, J. Convex Anal. 19 (2012) 541-567

17. M. Bianchi, G. Kassay, R. Pini, Conditioning for optimization problems under general perturbations, Nonlinear Anal. 75 (2012), 37-45

18. A. Calogero, R. Pini, Horizontal normal map on the Heisenberg group, J. Nonlinear Convex Anal. 12 (2011), 287-307

19. A. Calogero, R. Pini, Note on the Fenchel transform in the Heisenberg group, J. Math. Anal. Appl. 368 (2010), 69-79

20. M. Bianchi, G. Kassay, R. Pini, Well-posed equilibrium problems, Nonlinear Anal. 72 (2010), 460-468

21. M. Bianchi, I. Konnov, R. Pini, Lexicographic and sequential equilibrium problems, J. Global Optim. 46 (2010), 551-560

22. M. Bianchi, G. Kassay, R. Pini, Well-posedness for vector equilibrium problems, Math. Method Oper. Res. 70 (2009), 171-182

23. A. Calogero, G. Carcano, R. Pini, On weakly H-quasiconvex functions on the Heisenberg group, J. Convex Anal. 15 (2008), 753-766

24. J. Mateu, R. Pini, E. Porcu, A. Zini, Modelling spatio-temporal data: a new variogram and covariance structure proposal, Statistics & Prob. Letters 77 (2007), 83-89

25. A. Calogero, G. Carcano, R. Pini, Twisted convex hulls in the Heisenberg group, J. Convex Anal. 14 (2007), 607-619.

26. M. Bianchi, I. Konnov, R. Pini, Lexicographic variational inequalities, Optimization, 56 (2007), 355-367

27. M. Bianchi, G. Kassay, R. Pini, Ekeland's principle for vector equilibrium problems, Nonlinear Anal. 66 (2007), 1454-1464

28. A. Calogero, G. Carcano, R, Pini, Optimization in the Heisenberg group, Optimization 55 (2006), 387-403

29. M. Bianchi, R. Pini, Sensitivity for parametric vector equilibria, Optimization 55 (2006), 221-230

30. M. Bianchi, G. Kassay, R. Pini, Existence of equilibria via Ekeland's principle, J. Math. Anal. Appl. 305 (2005), 502-512

31. M. Bianchi, R. Pini, Coercivity conditions for equilibrium problems, J. Optim. Theory Appl. 124 (2005), 79-92

32. C. Singh, R. Pini, $G$-monotonicity and $G$-convexity, J. Inf. Optim. Sci. 25 (2004), 287-301

33. M. Bianchi, R. Pini, A note on stability for parametric equilibrium problems, Oper. Res. Lett. 31 (2003), 445-450

34. M. Bianchi, R. Pini, A result on localization of equilibria, J. Optim. Theory Appl. 115 (2002), 335-343

35. A.M. Hanson, R. Pini, C. Singh, Multiobjective programming under generalized type $I$ invexity, J. Math. Anal. Appl. 261 (2001), 562-577

36. M. Bianchi, R. Pini, A note on equilibrium problems with properly quasimonotone bifunctions. J. Global Optim. 20 (2001), 67-76

37. R. Pini, C. Singh, Generalized convexity and generalized monotonocity, J. Inform. Optim. Sci. 20 (1999), 215-233

38. R. Pini, C. Singh, ($\Phi_1$-$\Phi_2$)-convexity, Optimization 40 (1997), 103-120

39. R. Pini, C. Singh, A survey of recent [1985-1995] advances in generalized convexity with applications to duality theory and optimality conditions, Optimization 39 (1997), 311-360

40. R. Pini, C. Singh, ($\Phi_1$-$\Phi_2$)-optimality and duality under differentiability, Optimization 41 (1997), 101-116

41. R. Pini, A note on $P$-convexity, J. Global Optim. 5 (1994), 15-20

42. R. Pini, Convexity along curves and invexity, Optimization 29 (1994), 301-309

43. R. Pini, S. Schaible, Invariance properties of generalized monotonicity, Optimization 28 (1994), 211-222

44. R. Pini, S. Schaible, Some invariance properties of generalized monotonicity. Generalized convexity (Pécs, 1992), 276-277, Lecture Notes in Econom. and Math. Systems, 405, Springer, Berlin, 1994

45. R. Pini, A multiplier result for twisted convolution, Boll. Un. Mat. Ital. B (7) 6 (1992), 67-78

46. S. Meda, R. Pini, An abstract version of Herz' imbedding theorem, Rend. Sem. Mat. Univ. Padova 86 (1991), 37-46

47. S. Meda, R. Pini, Spherical convolution with kernels having singularities on an equator, Boll. Un. Mat. Ital. B (7) 5 (1991), 275-290

48. R. Pini, A multiplier theorem for $H$-type groups, Studia Math. 100 (1991), 39-49

49. R. Pini, Invexity and generalized convexity, Optimization 22 (1991), 513-525

50. G.I. Gaudry, S. Meda, R. Pini, A heat semigroup version of Bernstein's theorem on Lie groups, Monatsh. Math. 110 (1990), 101-114

51. S. Meda, R. Pini, Lipschitz spaces on compact Lie groups, Monatsh. Math. 105 (1988), 177-191

52. G.I. Gaudry, R. Pini, Motion groups and absolutely convergent Fourier transforms, J. Austral. Math. Soc. Ser. A 43 (1987), 385-397

53. G.I. Gaudry, R. Pini, Bernstein's theorem for compact, connected Lie groups, Math. Proc. Cambridge Philos. Soc. 99 (1986), 297-305

54. R. Pini, Bernstein's theorem on $SU(2)$, Boll. Un. Mat. Ital. A (6) 4 (1985), 381-389

Milan, October 1, 2019